



EVALUATION REPORT

FLORIDA BUILDING CODE, 8TH EDITION (2023)

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

Issued October 1, 2023

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, 8th Edition (2023) High-Velocity Hurricane Zones (HVHZ)
Code Sections: 1518.9.1, 1523.1.1, 1523.6.5, 1523.6.5.2.4, 1523.6.5.2.4.1
Properties: Wind Resistance

REFERENCES

<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>	<u>Year</u>
Architectural Testing (TST1558)	56840.02-122-18	TAS 100	2023
Architectural Testing (TST1558)	56842.02-122-18	TAS 100	2023
Architectural Testing (TST1558)	58461.01-122-44	TAS 125	2003
Architectural Testing (TST1558)	58641.02-122-44	TAS 100	2023
Architectural Testing, Inc (an Intertek Company) (TST1527)	H3245.01-450-18	TAS 125	2003
Architectural Testing, Inc (an Intertek Company) (TST1527)	H3245.02-450-18	TAS 100	2023
Architectural Testing, Inc (an Intertek Company) (TST1527)	H9058.02-450-18	TAS 125	2003
Architectural Testing, Inc (an Intertek Company) (TST1527)	H9058.01-450-18	TAS 125	2003
Architectural Testing, Inc (an Intertek Company) (TST1527)	H9058.03-450-18	TAS 100	2023
Architectural Testing, Inc (an Intertek Company) (TST1527)	K6520.01-450-18 R1	TAS 125	2003
Architectural Testing, Inc (an Intertek Company) (TST1527)	K6520.02-450-18 R1	TAS 125	2003
Architectural Testing, Inc (an Intertek Company) (TST1527)	K6520.03-450-18 R1	TAS 125	2003
Architectural Testing, Inc (an Intertek Company) (TST1527)	K6520.04-450-18	TAS 125	2003
Architectural Testing, Inc (an Intertek Company) (TST1527)	K6520.05-450-18 R1	TAS 125	2003
Architectural Testing, Inc (an Intertek Company) (TST1527)	K6520.06-450-18	TAS 125	2003
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	2023
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	2023
PRI Construction Materials Technologies (TST5878)	DMC-008-02-01	TAS 100	2023
PRI Construction Materials Technologies (TST5878)	DMC-009-02-01	TAS 100	2023
PRI Construction Materials Technologies (TST5878)	DMC-014-02-01	TAS 125	2003
PRI Construction Materials Technologies (TST5878)	DMC-016-02-01	TAS 100	2023
PRI Construction Materials Technologies (TST5878)	DMC-030-02-01	TAS 100	2023
PRI Construction Materials Technologies (TST5878)	HTL-013-02-01	TAS 100	2023
PRI Construction Materials Technologies (TST5878)	HTL-014-02-01	TAS 100	2023

DRX15002.7

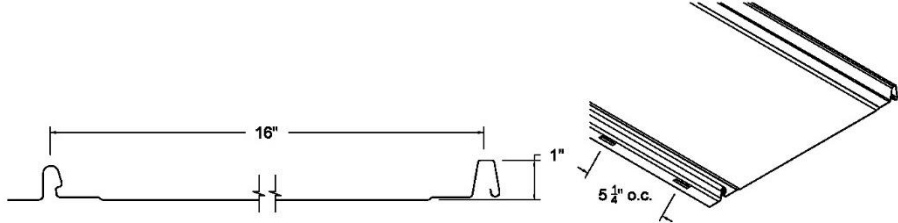
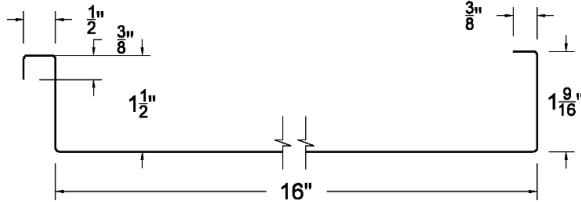
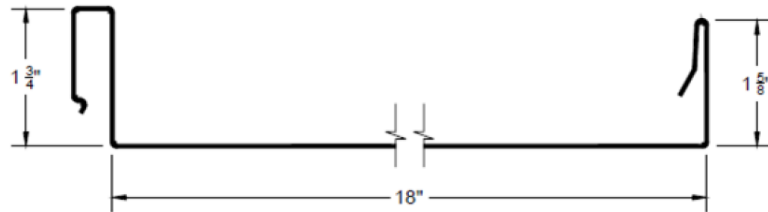
FL17679-R7

Page 1 of 4

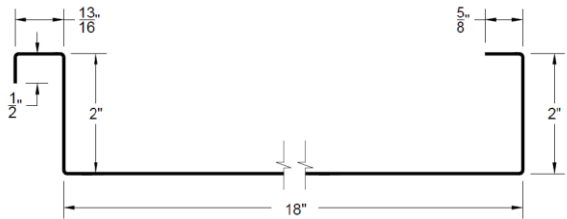
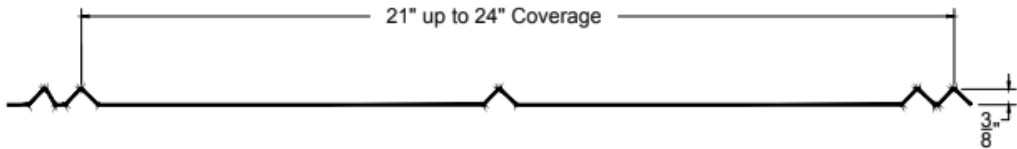
This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express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



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 perforated nail strip
	Material:	Min. 24 ga. Fluropon® coated ASTM A792 AZ50, or ASTM A653 G90; $F_y = \text{min. } 50 \text{ ksi}$; 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; $F_y = \text{min. } 16 \text{ ksi}$; Shall conform with FBC Section 1507.4.3
		Min. 24 ga. Fluropon® coated ASTM A792 AZ50, or ASTM A653 G90; $F_y = \text{min. } 50 \text{ ksi}$; 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 ($F_y = \text{min. } 24 \text{ ksi}$) or 0.040-inch ($F_y = \text{min. } 20 \text{ ksi}$) 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; $F_y = \text{min. } 50 \text{ ksi}$; Shall conform with FBC Section 1507.4.3
		



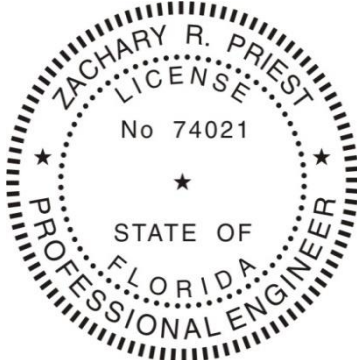
DMC 200S	Profile:	2 in. mechanical seam; Max. 16 in. coverage
	Description:	Non-structural, mechanical lock standing seam roof panel
	Material:	Min. 0.032 in. Fluropon® coated ASTM B209 aluminum; F_y = min. 21 ksi; Shall conform with FBC Section 1507.4.3
		Min. 0.040 in. Fluropon® coated ASTM B209 aluminum; 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, 8th Edition (2023) including High-Velocity Hurricane Zones (HVHZ) as evidenced in the referenced documents submitted by the named manufacturer.



This item has been
digitally signed and
sealed by Zachary R.
Priest, PE, on 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
CREEK Technical Services, LLC

2023.10.01
16:04:26
-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.

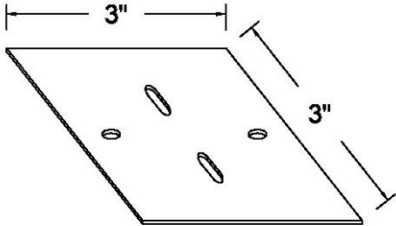
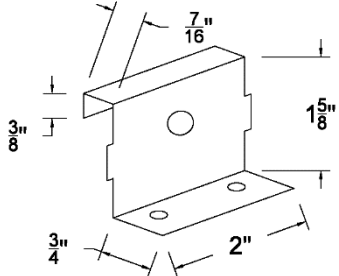
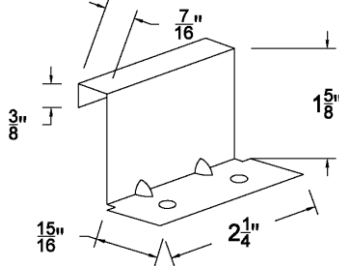
APPENDICES

- 1) APPENDIX A – Installation (10 pages)
- 2) APPENDIX B – Approved Roof Systems (6 pages)
- 3) APPENDIX C – Design Wind Loads(3 pages)

APPENDIX A
INSTALLATION

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

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

Component	Product	Installation Detail
Fasteners	#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 

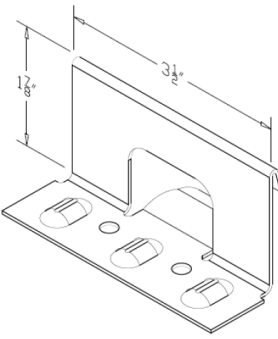
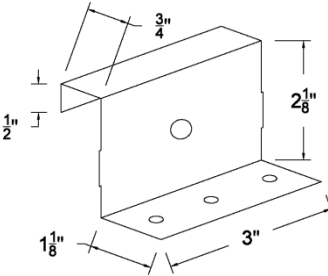
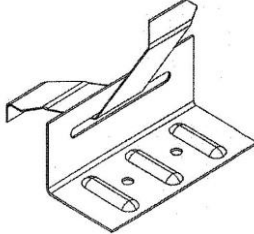
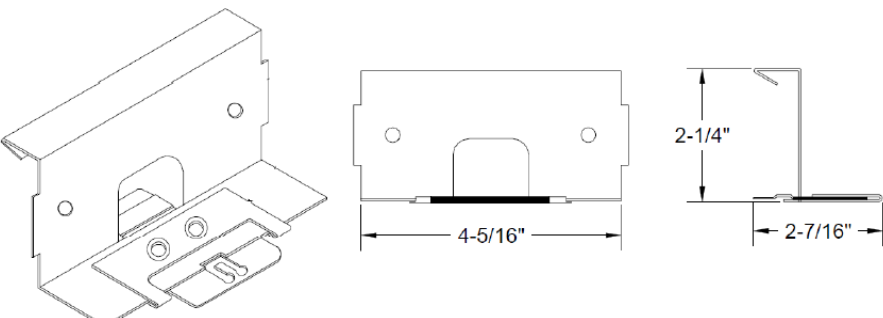


APPENDIX A

Component	Product	Installation Detail
Clips (Cont'd)	22 ga. DMC 150SS Clip	22 ga. SS in-seam clip
	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

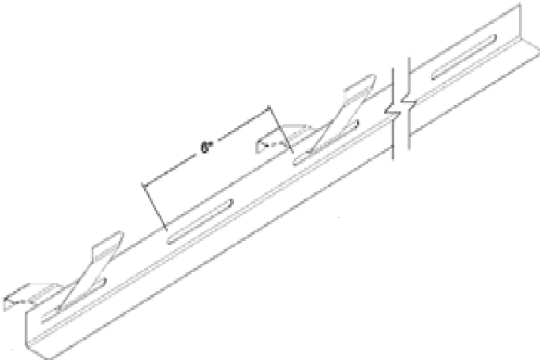


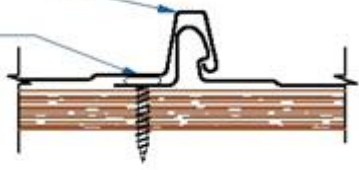
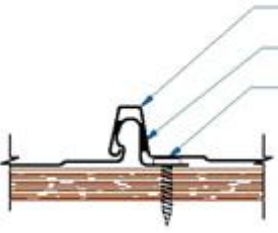
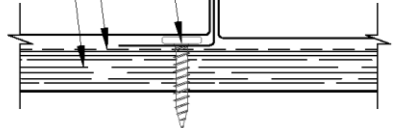
APPENDIX A

Component	Product	Installation Detail
Clips (Cont'd)	DMC 175S UL Clip	18 ga. in-seam clip 
	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 Floating Clip	18 ga. base; 22 ga. two-piece, in-seam clip; 4.313 in. length 



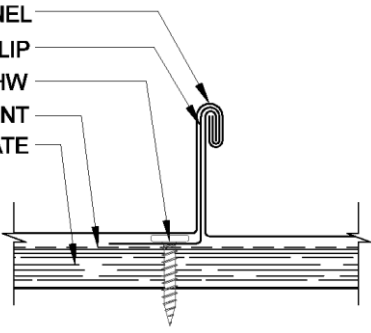
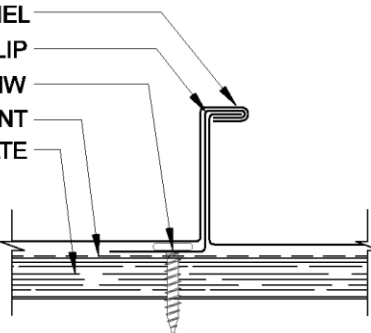
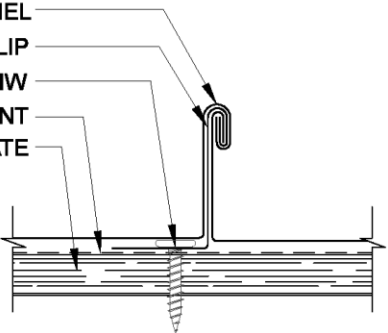
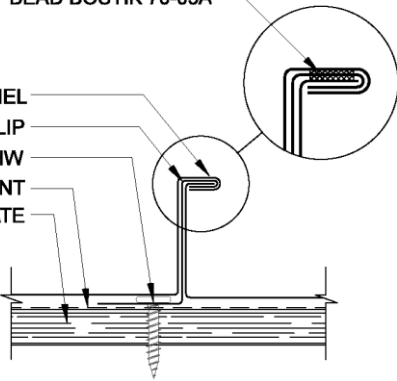
APPENDIX A

Component	Product	Installation Detail
Clips (Cont'd)	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
<i>DMC 100NS Standard</i>	 DMC 100NS PANEL #10 - 13 PHW
<i>DMC 100NS Enhanced</i>	 DMC 100NS PANEL BOSTIK 70-05A (2 - 3/16" BEADS) #10 - 13 PHW
<i>DMC 150SS Continuous Butterfly</i>	 DMC 150SS PANEL DMC 150SS CONTINUOUS BUTTERFLY CLIP (2) #10 - 13 PHW UNDERLAYMENT SUBSTRATE

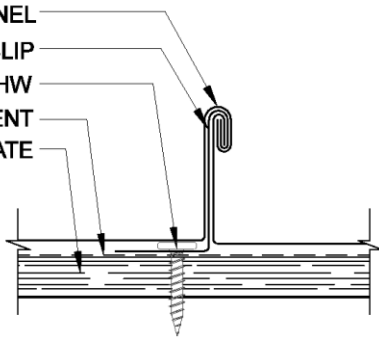
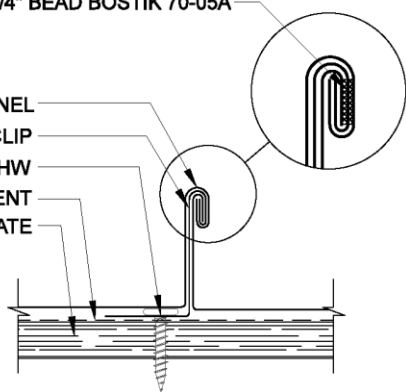
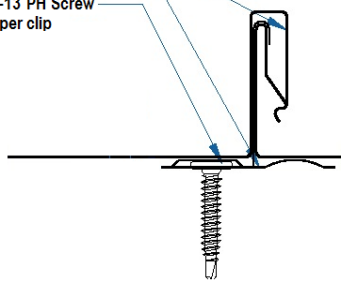


APPENDIX A

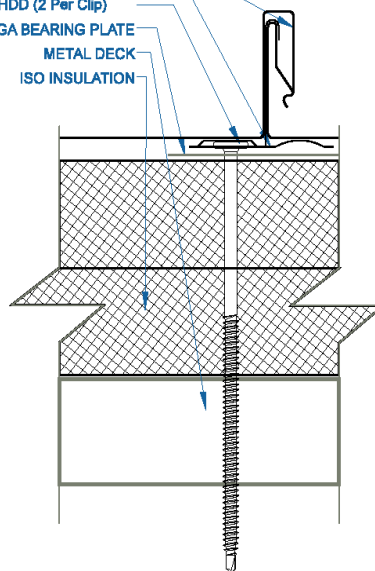
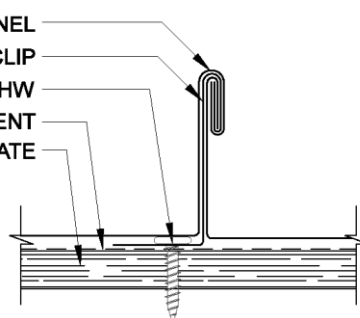
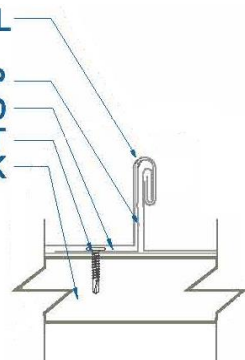
Fastening Details	
Nomenclature	Attachment
<i>DMC 150SS Butterfly</i>	DMC 150SS PANEL DMC 150SS BUTTERFLY CLIP (2) #10 - 13 PHW UNDERLAYMENT SUBSTRATE 
<i>DMC 150SS Fixed - 90</i>	DMC 150SS PANEL 24 GA DMC 150SS FIXED CLIP (2) #10 - 13 PHW UNDERLAYMENT SUBSTRATE 
<i>DMC 150SS Standard (A)</i>	DMC 150SS PANEL 24 GA DMC 150SS CLIP (2) #10 - 13 PHW UNDERLAYMENT SUBSTRATE 
<i>DMC 150SS Fixed Enhanced - 90</i>	1/4" BEAD BOSTIK 70-05A DMC 150SS PANEL 22 GA DMC 150SS FIXED CLIP (2) #10 - 13 PHW UNDERLAYMENT SUBSTRATE 



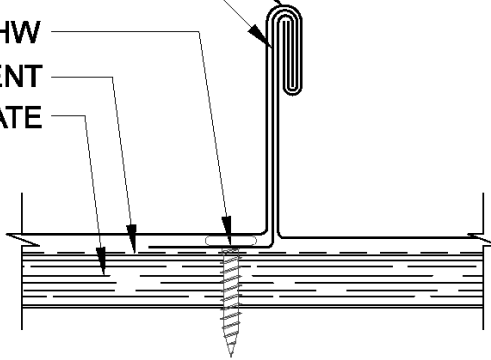
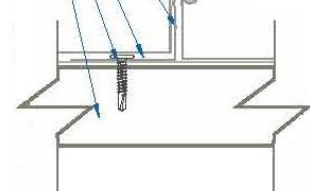
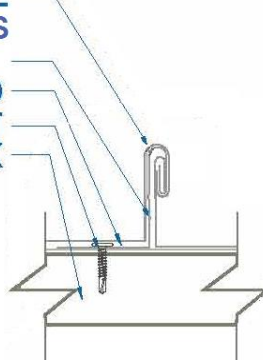
APPENDIX A

Fastening Details	
Nomenclature	Attachment
<i>DMC 150SS Fixed Enhanced - 180</i>	DMC 150SS PANEL 22 GA DMC 150SS FIXED CLIP (2) #10 - 13 PHW UNDERLAYMENT SUBSTRATE 
<i>DMC 150SS Enhanced (AI)</i>	1/4" BEAD BOSTIK 70-05A DMC 150SS PANEL 22 GA DMC 150SS CLIP (2) #10 - 13 PHW UNDERLAYMENT SUBSTRATE 
<i>DMC 175S #10 Standard</i>	DMC 175S Panel DMC 175S UL Clip #10-13 PH Screw (2) per clip 



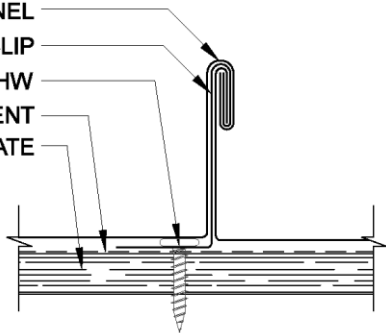
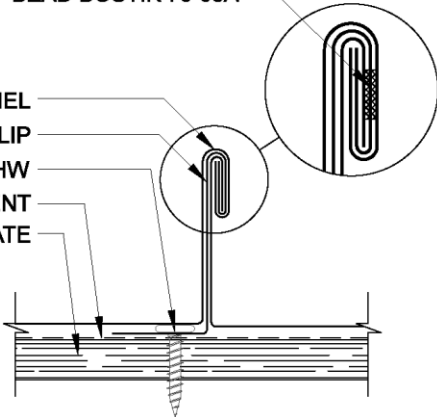
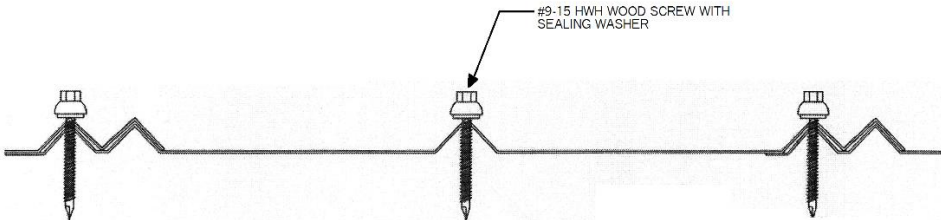
Fastening Details	
Nomenclature	Attachment
DMC 175S #14 Standard	DMC 175S PANEL DMC 175S UL CLIP #14 - 13 DP1 PHDD (2 Per Clip) 3X3 - 18GA BEARING PLATE METAL DECK ISO INSULATION 
DMC 200S Butterfly	DMC 200S PANEL DMC 200S BUTTERFLY CLIP (2) #10 - 13 PHW UNDERLAYMENT SUBSTRATE 
DMC 200S Butterfly (Steel)	DMC 200S PANEL DMC 200S BUTTERFLY CLIP #10 - 16 DP3 PHD UNDERLAYMENT METAL DECK  Use 18 ga. bearing plate over polyisocyanurate insulation



Fastening Details	
Nomenclature	Attachment
DMC 200S Floating	DMC 200S PANEL DMC 200S FLOATING CLIP (2) #10 - 13 PHW UNDERLAYMENT SUBSTRATE 
DMC 200S Floating (Steel)	DMC 200S PANEL DMC 200S FLOATING CLIP #14-13 DP1 PH (2 per clip) UNDERLAYMENT METAL DECK  Use 18 ga. bearing plate over polyisocyanurate insulation
DMC 200S Continuous Butterfly (Steel)	DMC 200S PANEL DMC 200S CONTINUOUS BUTTERFLY CLIP #10 - 16 DP3 PHD UNDERLAYMENT METAL DECK  Use 18 ga. bearing plate over polyisocyanurate insulation

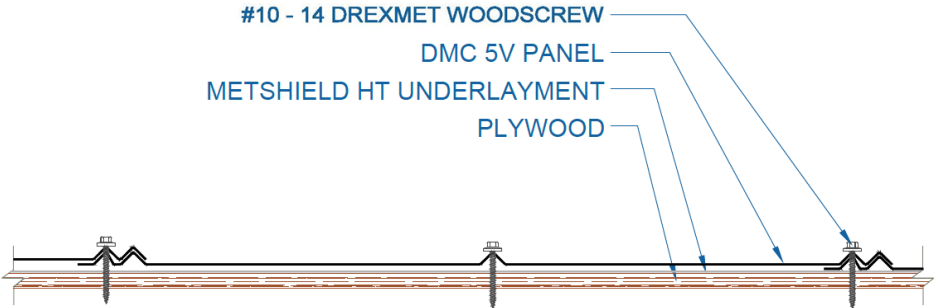


APPENDIX A

Fastening Details	
Nomenclature	Attachment
<i>DMC 200S Fixed</i>	DMC 200S PANEL DMC 200S CLIP (2) #10 - 13 PHW UNDERLAYMENT SUBSTRATE 
<i>DMC 200S Fixed Enhanced</i>	1/4" BEAD BOSTIK 70-05A DMC 200S PANEL DMC 200S CLIP (2) #10 - 13 PHW UNDERLAYMENT SUBSTRATE 
<i>DMC 5V Standard</i>	#9-15 HHW WOOD SCREW WITH SEALING WASHER 



APPENDIX A

Fastening Details	
Nomenclature	Attachment
DMC 5V #10 Standard	 #10 - 14 DREXMET WOODSCREW DMC 5V PANEL METSHIELD HT UNDERLAYMENT PLYWOOD

APPENDIX B
APPROVED ROOF SYSTEMS

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

1. Maximum Design Pressure (*MDP*) was calculated using a 2:1 margin of safety per FBC Section 1523.4.
2. Refer to [LIMITATIONS](#) and sections of this evaluation when using the table(s) below.
3. Refer to [INSTALLATION](#) section of this report for installation detail when the information is not explicitly stated for the selected assembly.
4. The on-center (o.c.) spacing given is the maximum allowable attachment spacing for the rated system.
5. Underlayment shall be installed in accordance with FBC requirements. The minimum underlayment shall be ASTM D 226, Type II installed as described in FBC Section 1518.2.1 with nails and tin caps per 1517.5.
6. Steel Deck shall be designed by others in accordance with FBC requirements and shall be minimum 22 ga ($F_y = \text{min.}40 \text{ ksi}$) 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, 40/20 span rated, CDX 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	<i>MDP</i> (psf)
100NS-W1	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	24 ga. DMC 100NS Max. 16-inch wide	<i>DMC 100NS Standard</i> 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	<i>DMC 100NS Standard</i> 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	<i>DMC 100NS Enhanced</i> attachment with fasteners spaced 5.25 in. o.c.	-135

APPENDIX B

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

APPENDIX B

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. <i>Approved</i> polyisocyanurate insulation board	As required per FBC	0.040" Al DMC 175S Max. 17.5-inch wide	<i>DMC 175S #14 Standard</i> 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 with 0.120 in. x 1.25 in. galvanized ring shank roofing nails spaced 6 in. o.c. at the perimeter and min. 4 in. wide overlaps, with two intermediate row 12 in. o.c. followed by Metshield High-Temp Underlayment self-adhered to felt with min. 4 in. wide overlaps	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 with 0.120 in. x 1.25 in. galvanized ring shank roofing nails spaced 6 in. o.c. at the perimeter and min. 4 in. wide overlaps, with two intermediate row 12 in. o.c. followed by Metshield High-Temp Underlayment self-adhered to felt with min. 4 in. wide overlaps 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

APPENDIX B

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. <i>Approved</i> polyisocyanurate insulation board	As required per FBC	24 ga. DMC 200S Max. 16-inch wide 180° seam	<i>DMC 200S Butterfly (Steel)</i> attachment with clips spaced 24 in. o.c.	-88
200S-S2	Min. 22 ga. Type B Steel	As required	Min. 2 in. <i>Approved</i> polyisocyanurate insulation board followed by 0.25 in. DensDeck	As required per FBC	24 ga. DMC 200S Max. 18-inch wide 180° seam	<i>DMC 200S Floating (Steel)</i> attachment with clips spaced 48 in. o.c.	-63.5
200S-S3	Min. 22 ga. Type B Steel	As required	Min. 2 in. <i>Approved</i> polyisocyanurate insulation board followed by 0.25 in. DensDeck	As required per FBC	0.032" Al DMC 200S Max. 18-inch wide 180° seam	<i>DMC 200S Floating (Steel)</i> attachment with clips spaced 48 in. o.c.	-71
200S-S4	Min. 22 ga. Type B Steel	As required	Min. 2 in. <i>Approved</i> polyisocyanurate insulation board followed by 0.25 in. DensDeck	As required per FBC	24 ga. DMC 200S Max. 18-inch wide 180° seam	<i>DMC 200S Floating (Steel)</i> attachment with clips spaced 24 in. o.c.	-71
200S-S5	Min. 22 ga. Type B Steel	As required	None	As required per FBC	24 ga. DMC 200S Max. 16-inch wide 180° seam	<i>DMC 200S Butterfly (Steel)</i> attachment with clips spaced 24 in. o.c.	-91.75
200S-S6	Min. 22 ga. Type B Steel	As required	Min. 1 in. <i>Approved</i> polyisocyanurate insulation board	As required per FBC	24 ga. DMC 200S Max. 16-inch wide 180° seam	<i>DMC 200S Continuous Butterfly (Steel)</i> attachment with clips spaced 12 in. o.c.	-121.75
200S-S7	Min. 22 ga. Type B Steel	As required	Min. 2 in. <i>Approved</i> polyisocyanurate insulation board followed by 0.25 in. DensDeck	As required per FBC	24 ga. DMC 200S Max. 18-inch wide 180° seam	<i>DMC 200S Floating (Steel)</i> attachment with clips spaced 6 in. o.c.	123.5
200S-S8	Min. 22 ga. Type B Steel	As required	None	As required per FBC	24 ga. DMC 200S Max. 16-inch wide 180° seam	<i>DMC 200S Continuous Butterfly (Steel)</i> attachment with clips spaced 12 in. o.c.	-151.75

APPENDIX B

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-S9	Min. 22 ga. Type B Steel	As required	Min. 2 in. <i>Approved</i> polyisocyanurate insulation board followed by 0.25 in. DensDeck	As required per FBC	0.032" Al DMC 200S Max. 18-inch wide 180° seam	<i>DMC 200S Floating (Steel)</i> attachment with clips spaced 6 in. o.c.	-153.5

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. 5/8 CDX plywood	As required	As required per FBC	0.032" Al DMC 200S Max. 18-inch wide 180° seam	DMC 200S Floating attachment with clips spaced 18 in. o.c.	-78.5
200S-W2	Min. 5/8 CDX plywood	As required	As required per FBC	24 ga. DMC 200S Max. 18-inch wide 180° seam	DMC 200S Floating attachment with clips spaced 18 in. o.c.	-82.25
200S-W3	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-W4	Min. 5/8 CDX plywood	As required	As required per FBC	24 ga. DMC 200S Max. 18-inch wide 180° seam	DMC 200S Floating attachment with clips spaced 6 in. o.c.	-131
200S-W5	Min. 5/8 CDX plywood	As required	As required per FBC	0.032" Al DMC 200S Max. 18-inch wide 180° seam	DMC 200S Floating attachment with clips spaced 6 in. o.c.	-131
200S-W6	Min. 5/8 CDX plywood	As required	ASTM D 226, Type II roofing felt attached with 0.120 in. x 1.25 in. galvanized ring shank roofing nails spaced 6 in. o.c. at the perimeter and min. 4 in. wide overlaps, with two intermediate row 12 in. o.c. followed by Metshield Synthetic Underlayment self-adhered to felt with min. 4 in. wide overlaps	0.032" Al DMC 200S Max. 18-inch wide 180° seam	DMC 200S Floating attachment with clips spaced 6 in. o.c.	-146

APPENDIX B

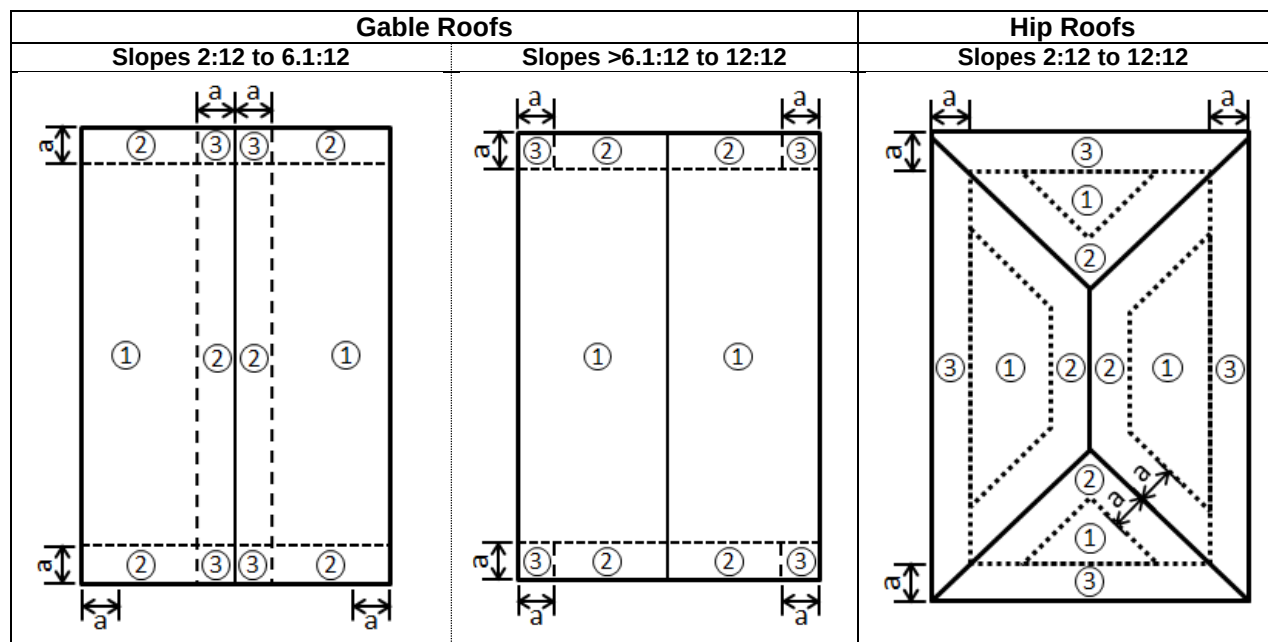
Approved Systems for DMC 200S over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
200S-W7	Min. 5/8 CDX plywood	As required	ASTM D 226, Type II roofing felt attached with 0.120 in. x 1.25 in. galvanized ring shank roofing nails spaced 6 in. o.c. at the perimeter and min. 4 in. wide overlaps, with two intermediate row 12 in. o.c. followed by Metshield Synthetic Underlayment self-adhered to felt with min. 4 in. wide overlaps	24 ga. DMC 200S Max. 18-inch wide 180° seam	<i>DMC 200S Floating</i> attachment with clips spaced 6 in. o.c.	-176
200S-W8	Min. 19/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	0.040" Al DMC 200S Max. 16-inch wide 180° seam	<i>DMC 200S Fixed Enhanced</i> 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	<i>DMC 5V #10 Standard</i> attachment with #10-14 HWH wood screws with sealing washers spaced 18 in. o.c.	-56
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	<i>DMC 5V Standard</i> 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	<i>DMC 5V #10 Standard</i> 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	<i>DMC 5V Standard</i> 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	<i>DMC 5V #10 Standard</i> 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 7-22 under the following provisions:

1. Wind speeds for risk category I, II, III, and IV buildings shall be as defined in Section 1620 of the FBC.
2. Exposure C and D shall be as defined in section 1620 of the FBC.
3. Design wind load provided only for gable/hip roofs with roof slopes between 2:12 and 6.1:12
4. All calculations are based on an effective wind area of 10-ft² or less.
5. Topographic factors such as escarpments or hills have been excluded from the analysis
6. Overhangs have been excluded from the analysis.
7. Wind directionality factor, $K_d = 0.85$
8. Ground elevation factor, $K_e = 1.0$
9. Design wind loads are calculated using $P_{asd} = 0.6P_{ult}$.
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



APPENDIX C

Gable/Hip Roofs in Exposure C in Miami-Dade & Broward County (Roof slopes between 2:12 and 12:12)								
Building Type	Zone	Mean Roof Height (ft)	Basic Wind Speed (mph)					
			Risk Cat I	Risk Cat I	Risk Cat II	Risk Cat II	Risk Cat III, IV	Risk Cat III,IV
			156	165	170	175	180	186
Enclosed/ Partially Open	1	20	-62.3	-69.7	-74.0	-78.5	-83.0	-88.6
		25	-65.4	-73.2	-77.7	-82.3	-87.1	-93.0
		30	-67.9	-76.0	-80.7	-85.5	-90.4	-96.6
		40	-72.0	-80.6	-85.5	-90.6	-95.9	-102.4
		50	-75.4	-84.3	-89.5	-94.9	-100.4	-107.2
		60	-78.2	-87.5	-92.9	-98.5	-104.2	-111.2
	2	20	-82.4	-92.1	-97.8	-103.6	-109.6	-117.1
		25	-86.4	-96.7	-102.7	-108.8	-115.1	-122.9
		30	-89.7	-100.4	-106.6	-112.9	-119.5	-127.6
		40	-95.2	-106.4	-113.0	-119.7	-126.7	-135.3
		50	-99.6	-111.4	-118.3	-125.3	-132.6	-141.6
		60	-103.4	-115.6	-122.7	-130.1	-137.6	-146.9
	3	20	-108.1	-120.9	-128.4	-136.0	-143.9	-153.7
		25	-113.5	-126.9	-134.7	-142.8	-151.1	-161.3
		30	-117.8	-131.7	-139.8	-148.2	-156.8	-167.4
		40	-124.9	-139.7	-148.3	-157.2	-166.3	-177.5
		50	-130.7	-146.2	-155.2	-164.5	-174.0	-185.8
		60	-135.7	-151.8	-161.1	-170.7	-180.6	-192.9
Partially Enclosed	1	20	-72.9	-81.6	-86.6	-91.8	-97.1	-103.7
		25	-76.5	-85.6	-90.9	-96.3	-101.9	-108.8
		30	-79.4	-88.9	-94.3	-100.0	-105.8	-112.9
		40	-84.3	-94.3	-100.0	-106.0	-112.2	-119.8
		50	-88.2	-98.6	-104.7	-111.0	-117.4	-125.3
		60	-91.5	-102.4	-108.7	-115.2	-121.8	-130.1
	2	20	-92.9	-104.0	-110.4	-117.0	-123.7	-132.1
		25	-97.6	-109.1	-115.8	-122.8	-129.9	-138.7
		30	-101.3	-113.3	-120.2	-127.4	-134.8	-143.9
		40	-107.4	-120.1	-127.5	-135.1	-143.0	-152.6
		50	-112.4	-125.7	-133.5	-141.4	-149.6	-159.8
		60	-116.6	-130.5	-138.5	-146.8	-155.3	-165.8
	3	20	-118.7	-132.8	-140.9	-149.3	-158.0	-168.7
		25	-124.6	-139.4	-147.9	-156.8	-165.8	-177.1
		30	-129.3	-144.6	-153.5	-162.7	-172.1	-183.8
		40	-137.1	-153.4	-162.8	-172.5	-182.5	-194.9
		50	-143.5	-160.5	-170.4	-180.6	-191.0	-204.0
		60	-148.9	-166.6	-176.9	-187.4	-198.3	-211.7

APPENDIX C

Gable/Hip Roofs in Exposure D in Miami-Dade & Broward County (Roof slopes between 2:12 and 12:12)								
Building Type	Zone	Mean Roof Height (ft)	Basic Wind Speed (mph)					
			Risk Cat I	Risk Cat I	Risk Cat II	Risk Cat II	Risk Cat III, IV	Risk Cat III,IV
			156	165	170	175	180	186
Enclosed/ Partially Open	1	20	-75.5	-84.5	-89.7	-95.0	-100.5	-107.3
		25	-78.4	-87.7	-93.1	-98.6	-104.3	-111.4
		30	-80.9	-90.5	-96.1	-101.8	-107.7	-115.0
		40	-85.0	-95.1	-101.0	-107.0	-113.2	-120.9
		50	-88.4	-98.9	-105.0	-111.2	-117.7	-125.7
		60	-91.2	-102.1	-108.4	-114.8	-121.5	-129.7
	2	20	-99.7	-111.6	-118.5	-125.5	-132.8	-141.8
		25	-103.5	-115.8	-122.9	-130.3	-137.8	-147.2
		30	-106.9	-119.5	-126.9	-134.5	-142.3	-151.9
		40	-112.3	-125.7	-133.4	-141.4	-149.6	-159.7
		50	-116.8	-130.6	-138.7	-147.0	-155.5	-166.0
		60	-120.5	-134.8	-143.1	-151.7	-160.5	-171.4
	3	20	-130.9	-146.5	-155.5	-164.7	-174.3	-186.1
		25	-135.9	-152.0	-161.3	-171.0	-180.9	-193.1
		30	-140.2	-156.9	-166.5	-176.5	-186.7	-199.4
		40	-147.4	-164.9	-175.1	-185.5	-196.3	-209.6
		50	-153.3	-171.5	-182.0	-192.9	-204.1	-217.9
		60	-158.2	-177.0	-187.9	-199.1	-210.6	-224.9
Partially Enclosed	1	20	-88.3	-98.8	-104.9	-111.1	-117.6	-125.5
		25	-91.7	-102.5	-108.8	-115.3	-122.0	-130.3
		30	-94.6	-105.8	-112.3	-119.1	-126.0	-134.5
		40	-99.5	-111.3	-118.1	-125.2	-132.4	-141.4
		50	-103.4	-115.7	-122.8	-130.1	-137.7	-147.0
		60	-106.7	-119.4	-126.7	-134.3	-142.1	-151.7
	2	20	-112.6	-125.9	-133.7	-141.6	-149.9	-160.0
		25	-116.8	-130.7	-138.7	-147.0	-155.5	-166.1
		30	-120.6	-134.9	-143.2	-151.7	-160.5	-171.4
		40	-126.8	-141.8	-150.5	-159.5	-168.8	-180.2
		50	-131.8	-147.4	-156.5	-165.8	-175.4	-187.3
		60	-136.0	-152.2	-161.5	-171.2	-181.1	-193.4
	3	20	-143.7	-160.8	-170.7	-180.9	-191.4	-204.3
		25	-149.2	-166.9	-177.1	-187.7	-198.6	-212.1
		30	-154.0	-172.2	-182.8	-193.8	-205.0	-218.9
		40	-161.9	-181.1	-192.2	-203.7	-215.5	-230.1
		50	-168.3	-188.2	-199.8	-211.8	-224.0	-239.2
		60	-173.7	-194.3	-206.3	-218.6	-231.2	-246.9