



**MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION**

11805 SW 26 Street, Room 208

Miami, Florida 33175-2474

T (786) 315-2590 F (786) 315-2599

**DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION**

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/economy

**PGT Industries, LLC
3400 Precision Drive
North Venice, FL 34275**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "CA-5540" Outswing PVC Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **MD-5540C.0** titled "Vinyl Casement Window (LM)", sheets 1 through 11 of 11, dated 09/09/14, with revision **E** dated 07/07/25, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

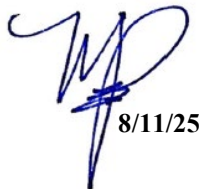
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews** NOA No. **23-0816.09** and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**




8/11/25

NOA No. 25-0710.01
Expiration Date: September 17, 2030
Approval Date: August 21, 2025
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 15-0420.11)
2. Drawing No. **MD-5540C.0** titled "Vinyl Casement Window (LM)", sheets 1 through 11 of 11, dated 09/09/14, with revision **D** dated 07/08/23, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
(Submitted under NOA No. 23-0816.09)

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per ASTM F588 and TAS 202-94
along with marked-up drawings and installation diagram of all PGT Industries, Inc. representative units listed below and tested to qualify **Dowsil 791** and **Dowsil 983** silicones, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.: **FTL-7897**, PGT PW5520 PVC Fixed Window (unit 6 in proposal), dated 09/03/14
FTL-20-2107.1, PGT SGD780 Aluminum Sliding Glass Door (unit 7 in proposal)
FTL-20-2107.2, PGT CA740 Alum. Outswing Casement Window (unit 8 in proposal)
FTL-20-2107.3, PGT PW7620A Aluminum Fixed Window (unit 9 in proposal) and
FTL-20-2107.4, PGT PW7620A Aluminum Fixed Window (unit 10 in proposal)
dated 07/13/20, all signed and sealed by Idalmis Ortega, P.E.
(Submitted under NOA No. 20-0402.03)
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a PVC sliding glass door, a PVC fixed window and an aluminum sliding glass door, using: Kodispace 4SG TPS spacer system, Duraseal® spacer system, Super Spacer® NXT™ spacer system and XL Edge™ spacer system at insulated glass, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-8717**, **FTL-8968** and **FTL-8970**, dated 11/16/15, 06/07/16 and 06/02/16 respectively, all signed and sealed by Idalmis Ortega, P.E.
(Submitted under NOA No. 16-0714.11)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 25-0710.01
Expiration Date: September 17, 2030
Approval Date: August 21, 2025

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

B. TESTS (CONTINUED)

3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per ASTM F588 and TAS 202-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series CA5540/CA5440 vinyl outswing casement windows, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-8179**, dated 03/31/15, signed and sealed by Idalmis Ortega, P.E. *(Submitted under NOA No. 15-0420.11)*
4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of series 5540/5440 vinyl fixed windows w/tube mullion, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-8174**, dated 03/31/15, signed and sealed by Idalmis Ortega, P.E. *(Submitted under NOA No. 15-0420.11)*
5. Reference Awning Window Test Report No. **FTL-8183**, per TAS 201, 202 & 203-94, with an addendum issued by Fenestration Testing Laboratory, Inc. *(Submitted under NOA No. 15-0420.11)*

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 6th Edition (2017), prepared by manufacturer, dated 08/28/15, and revised and updated to the FBC 7th Edition (2020) on 03/25/20, signed and sealed by Anthony Lynn Miller, P.E. *(Submitted under NOA No. 20-0402.03)*
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 25-0710.01
Expiration Date: September 17, 2030
Approval Date: August 21, 2025

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 05/09/19, expiring on 07/08/24.
2. Notice of Acceptance No. **18-0725.11** issued to **Kuraray America, Inc.** for their “**Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer**” dated 05/23/19, expiring on 05/23/24.
3. Notice of Acceptance No. **21-1109.04** issued to Vision Extrusions Group Limited, for their “**White Rigid PVC Exterior Extrusions for Windows and Doors**”, approved on 03/31/22, expiring on 09/30/24.
4. Notice of Acceptance No. **22-0104.04** issued to Vision Extrusions Group limited for their “**Bronze and Lighter Shades of Cap Coated Rigid PVC Exterior Extrusions for Windows and Doors**”, approved on 04/14/22, expiring on 12/29/26.
5. Notice of Acceptance No. **20-0203.04** issued to ENERGI Fenestration Solutions USA, Inc. for their “**Performance Core Rigid PVC Exterior Extrusions for Windows and Doors**” dated 02/27/20, expiring on 04/16/25.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, dated July 13, 2023, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
(Submitted under NOA No. 23-0816.09)
2. Statement letter of no financial interest, dated March 19, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
(Submitted under NOA No. 20-0402.03)
3. Proposal No. **19-1155 TP** issued by the Product Control Section, dated January 10, 2020, signed by Ishaq Chanda, P.E.
(Submitted under NOA No. 20-0402.03)
4. Proposal No. **16-0125** issued by the Product Control Section, dated March 09, 2016, signed by Ishaq Chanda, P.E.
(Submitted under NOA No. 16-0714.11)
5. Proposal issued by Product Control Section, dated 09/26/14 and revised on 10/15/14, signed by Jaime Gascon, P.E., Supervisor, Product Control Section.
(Submitted under NOA No. 15-0420.11)

G. OTHERS

1. Notice of Acceptance No. **20-0402.03**, issued to PGT Industries, Inc. for their Series “**CA-5540**” Outswing PVC Casement Window – L.M.I. approved on 08/13/20 and expiring on 09/17/25.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 25-0710.01
Expiration Date: September 17, 2030
Approval Date: August 21, 2025

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **MD-5540C.0** titled “Vinyl Casement Window (LM)”, sheets 1 through 11 of 11, dated 09/09/14, with revision E dated 07/07/25, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. None.

C. CALCULATIONS

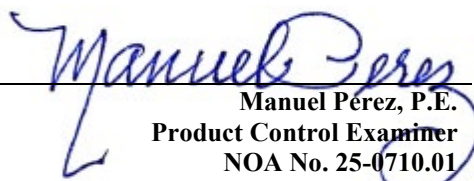
1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **24-0205.08** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 03/21/24, expiring on 07/08/29.
2. Notice of Acceptance No. **23-0717.30** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 08/31/23, expiring on 07/04/28.
3. Notice of Acceptance No. **24-0618.01**, issued to **Vision Extrusions Group Limited**, for their **White Rigid PVC Exterior Extrusions for Windows and Doors**, approved on 07/18/24, expiring on 09/30/29.
4. Notice of Acceptance No. **25-0609.03**, issued to **Vision Extrusions Group Limited**, for their **Tan 3040 and Lighter Shades (Non-White) Rigid PVC Exterior Extrusions for Windows and Doors**, approved on 07/10/25, expiring on 02/04/31.
5. Notice of Acceptance No. **24-0401.07**, issued to **Vision Extrusions Group Limited**, for their **Black and Lighter Shades of Cap Coated Rigid PVC Exterior Extrusions for Windows and Doors**, approved on 05/09/24, expiring on 07/28/27.
6. Notice of Acceptance No. **23-0830.05**, issued to **Vision Extrusions Group Limited**, for their **VE 1000 Tan 202 and Lighter Shades (Non-White) Rigid PVC Exterior Extrusions for Windows and Doors**, approved on 10/26/23, expiring on 12/29/26.
7. Notice of Acceptance No. **24-0618.02**, issued to **Vision Extrusions Group Limited**, for their **Painted or Laminated White Rigid PVC Exterior Extrusions for Windows and Doors**, approved on 07/18/24, expiring on 09/30/29.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 25-0710.01
Expiration Date: September 17, 2030
Approval Date: August 21, 2025

PGT Industries, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED (CONTINUED)

E. MATERIAL CERTIFICATIONS (CONTINUED)

8. Notice of Acceptance No. **23-0830.03**, issued to **Vision Extrusions Group Limited**, for their **VE 2000 Tan 202 and Lighter Shades (Non-White) Rigid PVC Exterior Extrusions for Windows and Doors**, approved on 10/26/23, expiring on 01/23/29.
9. Notice of Acceptance No. **23-0830.04**, issued to **Vision Extrusions Group Limited**, for their **White Rigid Cellular PVC Exterior Extrusions for Windows and Doors**, approved on 10/26/23, expiring on 01/23/29.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, dated July 07, 2025, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of no financial interest, dated July 07, 2025, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
3. Article of conversion of PGT Industries, Inc to PGT industries, LLC pdf provided on 12/24/24 by Ms. April Lee, Assistant General Counsel.
4. Florida Department of State, Division of Corporation listing # L2400142070 of PGT Industries LLC as active status since 12/17/24.
5. Florida Department of State, Division of Corporation listing # F03387 of PGT Industries, Inc as Inactive status.
6. PGT Name change organization chart layout prepared by RER (for file use only).

G. OTHERS

1. Notice of Acceptance No. **23-0816.09**, issued to PGT Industries, Inc. for their Series “CA-5540” Outswing PVC Casement Window – L.M.I.” approved on 09/07/23 and expiring on 09/17/25.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 25-0710.01
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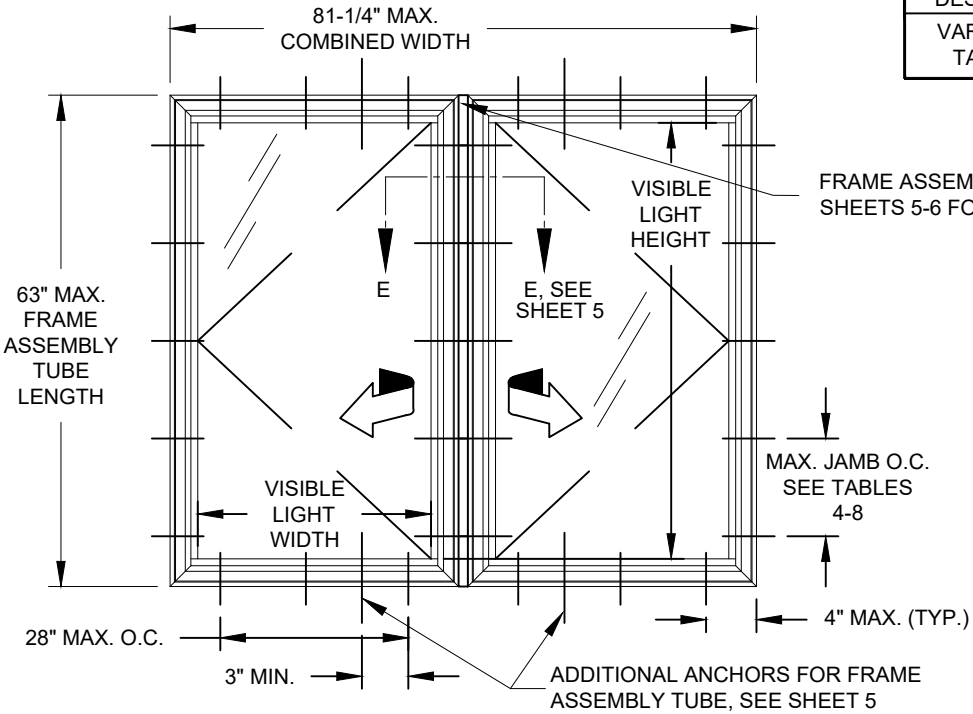
SERIES CA5540 IMPACT RESISTANT VINYL CASEMENT WINDOW

- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS. FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, THE OUTBOARD LITE (CAP) MUST TEMPERED.
- 3) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED MASONRY ANCHORS. MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, ASTM C90 CONCRETE MASONRY UNITS AND CONCRETE WITH MIN. KSI PER ANCHOR TYPE.
- 4) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND SECURED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER, (EOR) OR ARCHITECT OF RECORD, (AOR).
- 5) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE EMBEDMENT. INSTALLATION ANCHOR SHOULD BE SEALED. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- 6) MAX. 1/4" SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW. FOR INTEGRAL FIN FRAMES INSTALL SHIM AT MAX. 18" O.C.
- 7) DESIGN PRESSURES: A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL/CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL/ CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.
- 8) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED AND SECURED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.
- 9) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
- 10) REFERENCES: TEST REPORTS FTL-8139, 8174; ELCO ULTRACON NOA; DEWALT ULTRACON+ NOA; ELCO/DEWALT CRETEFLEX NOA; ELCO/DEWALT AGGRE-GATOR NOA; VISION WINDOW AND DOOR PROFILES, LTD WHITE & BRONZE/LIGHTER SHADES OF CAP COATED PVC EXTRUSION NOA'S; NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, ANSI/AF&PA NDS & ALUMINUM DESIGN MANUAL
- 11) PVB AND SG INTERLAYERS MANUFACTURED BY KURARAY AMERICA, INC.
- 12) APPLICABLE EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.
- 13) FRAME FLANGES OR INTEGRAL FINNS MAY BE TRIMMED IN-FIELD TO CREATE AN EQUAL LEG FRAME.

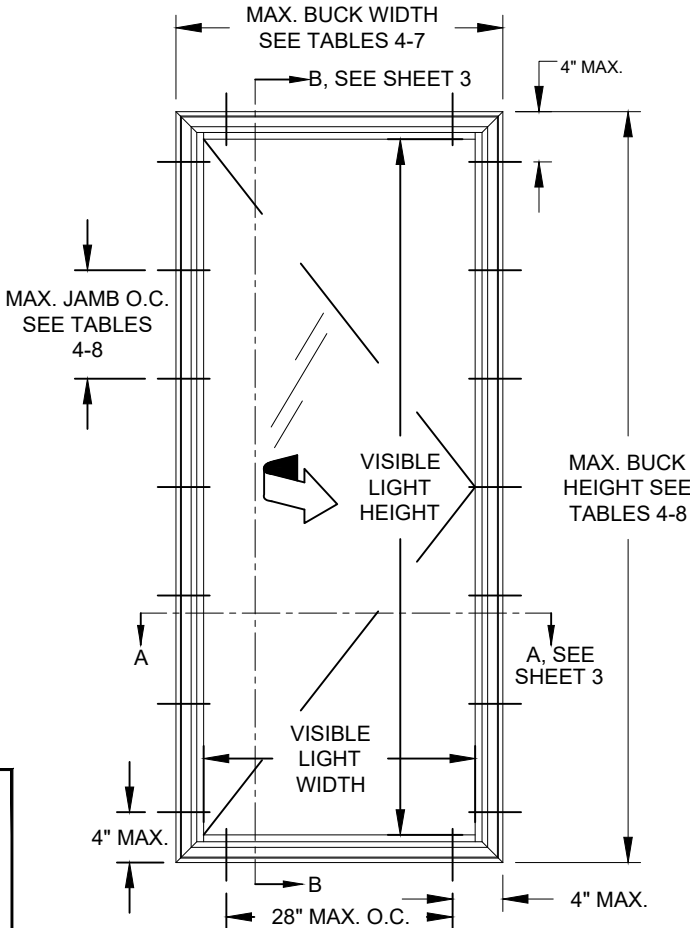
CODES / STANDARDS USED:

- 2023 FLORIDA BUILDING CODE (FBC), 8TH EDITION
- ASTM E1300-09
- ANSI/AF&PA NDS-2018 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2020
- AISI S100-16
- AISC 360-16

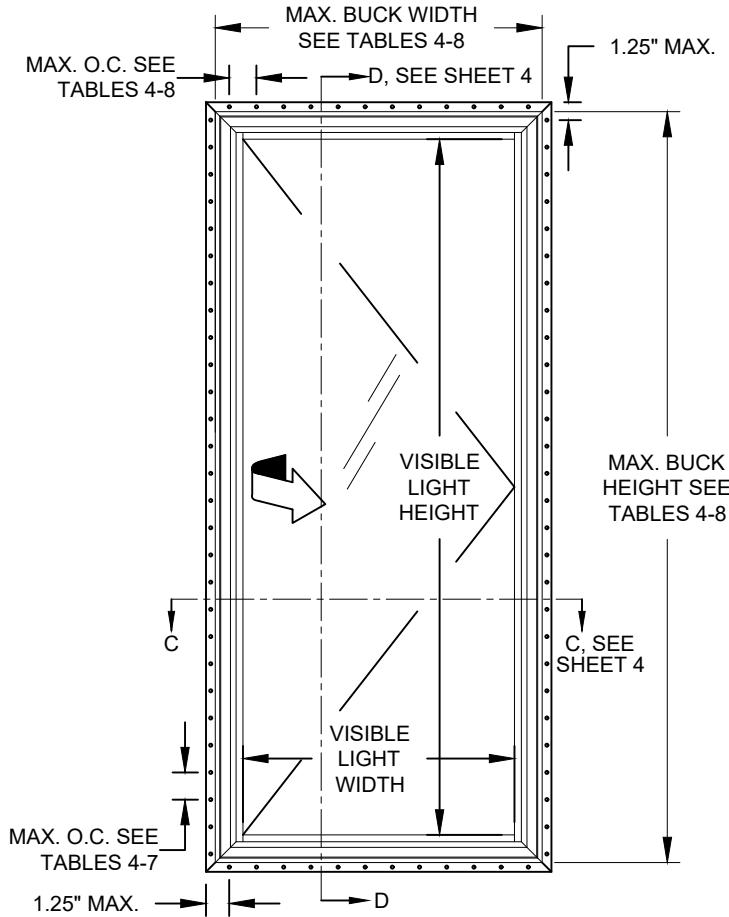
GENERAL NOTES & ELEVATIONS.....	1
FRAME, GLASS & ANCHOR OPTIONS.....	2
INSTALLATION, FLANGE & EQUAL LEG.....	3
INSTALLATION, INTEGRAL FIN & J-CHANNEL.....	4
FRAME ASSEMBLY TUBE.....	5-6
GLAZING DETAILS.....	7
DESIGN PRESSURES.....	8-9
BOM & ASSEMBLY.....	10-11



TYP. X-X EQUAL-LEG/BOX & FLANGE FRAME ANCHORAGE



TYP. EQUAL-LEG/BOX & FLANGE FRAME ANCHORAGE



TYP. INTEGRAL FIN & J-CHANNEL FRAME ANCHORAGE

DESIGN PRESSURE RATING	IMPACT RATING
VARIES PER OPTIONS, SEE TABLES 4-8, SHEETS 8-9	LARGE & SMALL MISSILE IMPACT RESISTANCE

VISIBLE LIGHT FORMULAS

WIDTH: BUCK WIDTH - 6-3/4"
HEIGHT: BUCK HEIGHT - 6-3/4"

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **25-0710.01**
Expiration Date: **09/17/2030**
By: *Manuel Perez*
Miami-Dade Product Control

Revision: ERASE FBC 2020
REFERENCE - AM
UPDATE NOTE 6- AM

 Custom Windows and Doors 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296			09/09/14		Rev.	E
	VINYL CASEMENT WINDOW (LM)			Date			
				A. MORLESIN			
				By	Drawn		
				GENERAL NOTES & ELEVATION			
CA5540		1 OF 11	Sheet				
Series		CA5540					

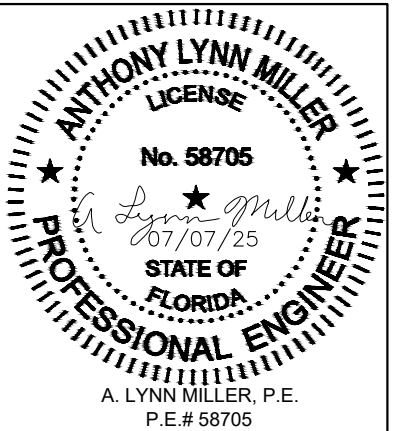


TABLE 1:

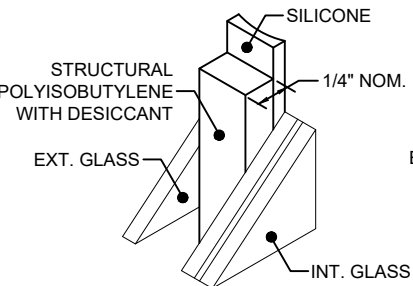
Glass Type	Description	Table #	Sheet #
5	7/8" Laminated I.G.: 1/8" A Exterior Cap + 7/16" Air Space + 5/16" Laminated; (2) Lites of 1/8" A Glass with .090" PVB Interlayer	4	8
6	7/8" Laminated I.G.: 1/8" T Exterior Cap + 7/16" Air Space + 5/16" Laminated; (2) Lites of 1/8" A Glass with .090" PVB Interlayer	5	8
7	7/8" Laminated I.G.: 3/16" A Exterior Cap + 3/8" Air Space + 5/16" Laminated; (2) Lites of 1/8" A Glass with .090" PVB Interlayer	6	9
8	7/8" Laminated I.G.: 3/16" T Exterior Cap + 3/8" Air Space + 5/16" Laminated; (2) Lites of 1/8" A Glass with .090" PVB Interlayer	6	9
9	7/8" Laminated I.G.: 1/8" A Exterior Cap + 7/16" Air Space + 5/16" Laminated; (2) Lites of 1/8" H Glass with .090" SG Interlayer	7	9
10	7/8" Laminated I.G.: 1/8" T Exterior Cap + 7/16" Air Space + 5/16" Laminated; (2) Lites of 1/8" H Glass with .090" SG Interlayer	7	9
11	7/8" Laminated I.G.: 3/16" A Exterior Cap + 3/8" Air Space + 5/16" Laminated; (2) Lites of 1/8" H Glass with .090" SG Interlayer	7	9
12	7/8" Laminated I.G.: 3/16" T Exterior Cap + 3/8" Air Space + 5/16" Laminated; (2) Lites of 1/8" H Glass with .090" SG Interlayer	7	9
13	7/8" Laminated I.G.: 1/8" A Exterior Cap + 5/16" Air Space + 7/16" Laminated; (2) Lites of 3/16" A Glass with .090" SG Interlayer	8	9
14	7/8" Laminated I.G.: 1/8" T Exterior Cap + 5/16" Air Space + 7/16" Laminated; (2) Lites of 3/16" A Glass with .090" SG Interlayer	8	9
15	7/8" Laminated I.G.: 3/16" A Exterior Cap + 1/4" Air Space + 7/16" Laminated; (2) Lites of 3/16" A Glass with .090" SG Interlayer	8	9
16	7/8" Laminated I.G.: 3/16" T Exterior Cap + 1/4" Air Space + 7/16" Laminated; (2) Lites of 3/16" A Glass with .090" SG Interlayer	8	9

TABLE 2: ANCHORS INSTALLED THROUGH FRAME

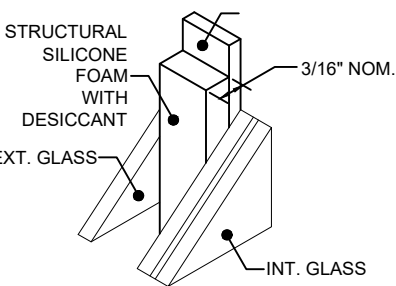
Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
A	#10 SMS (steel, 18-8 S.S. or 410 S.S.)	Southern Pine (SG=0.55)	7/16"	1-3/8"
		Steel, A36*	3/8"	0.050"
		Steel Stud, A653 Gr. 33*	3/8"	0.0451" (18 Ga.)
	3/16" steel Ultracon or Ultracon+	Aluminum, 6063-T5*	3/8"	0.050"
		Southern Pine (SG=0.55)	7/16"	1-3/8"
		Concrete (min. 3 ksi)	1"	1-3/8"
B	#12 SMS (steel, 18-8 S.S. or 410 S.S.)	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Grouted CMU, (ASTM C-90)	1"	1-1/4"
		Southern Pine (SG=0.55)	9/16"	1-3/8"
	1/4" steel Ultracon or Ultracon+	Steel, A36*	3/8"	0.050"
		Steel Stud, A653 Gr. 33*	3/8"	0.0451" (18 Ga.)
		Aluminum, 6063-T5*	3/8"	0.063"
C	1/4" steel Ultracon	Southern Pine (SG=0.55)	1"	1-3/8"
		Concrete (min. 2.85 ksi)	1"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
	1/4" steel Ultracon+	Concrete (min. 3 ksi)	1-3/16"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
		Concrete (min. 3.35 ksi)	1"	1-3/4"
D	1/4" steel Creteflex	Concrete (min. 2.85 ksi)	2-1/2"	1-3/4"
		Concrete (min. 3 ksi)	2-1/2"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
	1/4" steel Ultracon+	Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Grouted CMU, (ASTM C-90)	2"	2"

TABLE 3: ANCHORS INSTALLED THROUGH INTEGRAL FIN

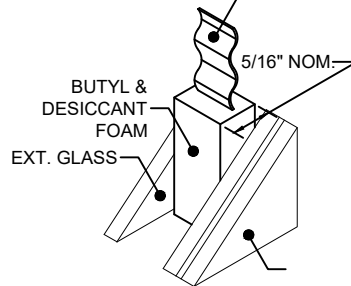
Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
F	2-1/2" Ring-shank Roofing Nail	Southern Pine (SG=.55)	3/8"	2-7/16"
		Southern Pine (SG=.55)	1/2"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.050"
		Steel Stud, Gr. 33*	3/8"	0.0451" (18 Ga.)
	#10 Trusshead SMS (steel, 18-8 S.S. or 410 S.S.)	Steel, A36*	3/8"	0.050"
		Southern Pine (SG=.55)	9/16"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.063"
		Steel Stud, Gr. 33*	3/8"	0.050"
	#12 SMS (steel, 18-8 S.S. or 410 S.S.)	Steel, A36*	3/8"	0.050"
		Southern Pine (SG=.55)	9/16"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.063"
		Steel Stud, Gr. 33*	3/8"	0.050"



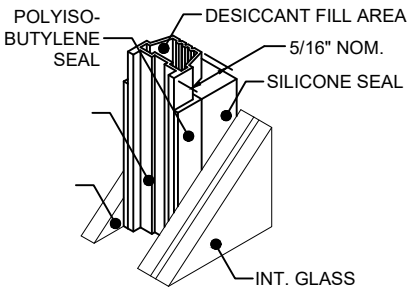
100 KODISPACE 4SG TPS



101 SUPER SPACER NXT



102 DURASEAL SPACER

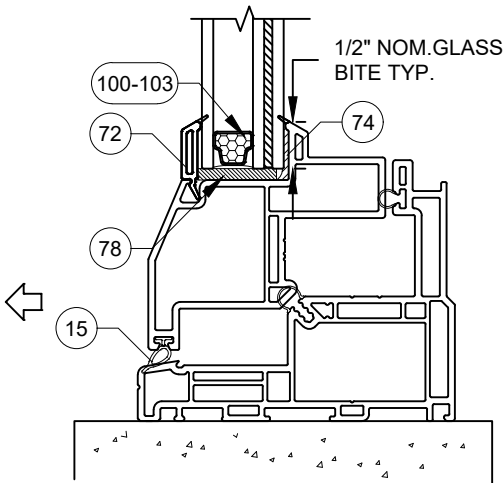


103 XL EDGE SPACER

Material	Min. F _y	Min. F _u
Steel Screw	92 ksi	120 ksi
18-8 Screw	60 ksi	95 ksi
410 Screw	90 ksi	110 ksi
Elco/DeWalt Aggre-Gator®	57 ksi	96 ksi
Elco UltraCon®	155 ksi	177 ksi
3/16" DeWalt UltraCon+®	117 ksi	164 ksi
1/4" DeWalt UltraCon+®	148 ksi	164 ksi
410 SS Elco/Dewalt CreteFlex®	127.4 ksi	189.7 ksi
6063-T5 Aluminum	16 ksi	22 ksi
A36 Steel	36 ksi	58 ksi
Gr. 33 Steel Stud	33 ksi	45 ksi

ANCHOR NOTES:

- 1) * MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE. FOR STEEL STUDS, MIN. Fu=45 KSI & Fy=33 KSI.
- 2) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
- 3) ALL ANCHOR HEAD TYPES ACCEPTABLE.

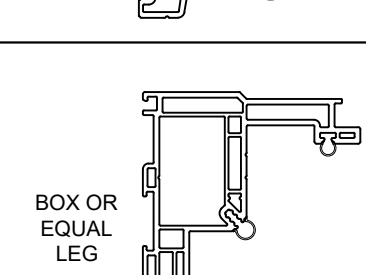
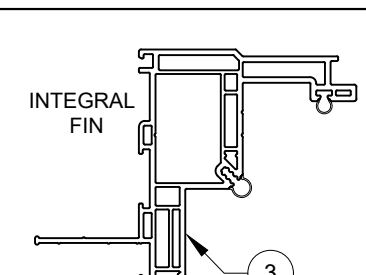
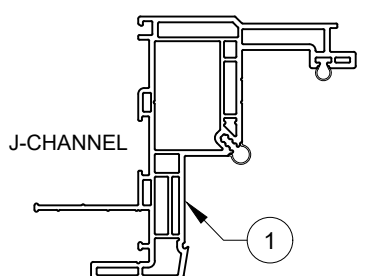
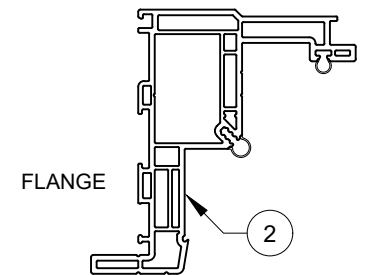


TYP. GLAZING DETAIL

Part #	Description	Material
100	Kommerling 4SG TPS Spacer System	See this Sheet for Materials
101	Quanex Super Spacer nXT with Hot Melt Butyl	
102	Quanex Duraseal Spacer	
103	Cardinal XL Edge Spacer	

REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970

WINDOW FRAMES MAY BE ANY OF THOSE SHOWN BELOW:

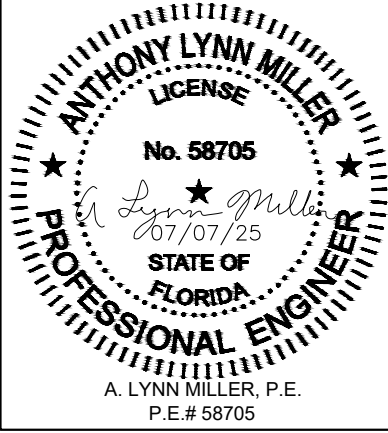


NOTE: SEE DETAILS AND DIMENSIONS ON SHEET 11

PRODUCT REVISED
As complying with the Florida Building Code
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Expiration Date: **09/17/2030**
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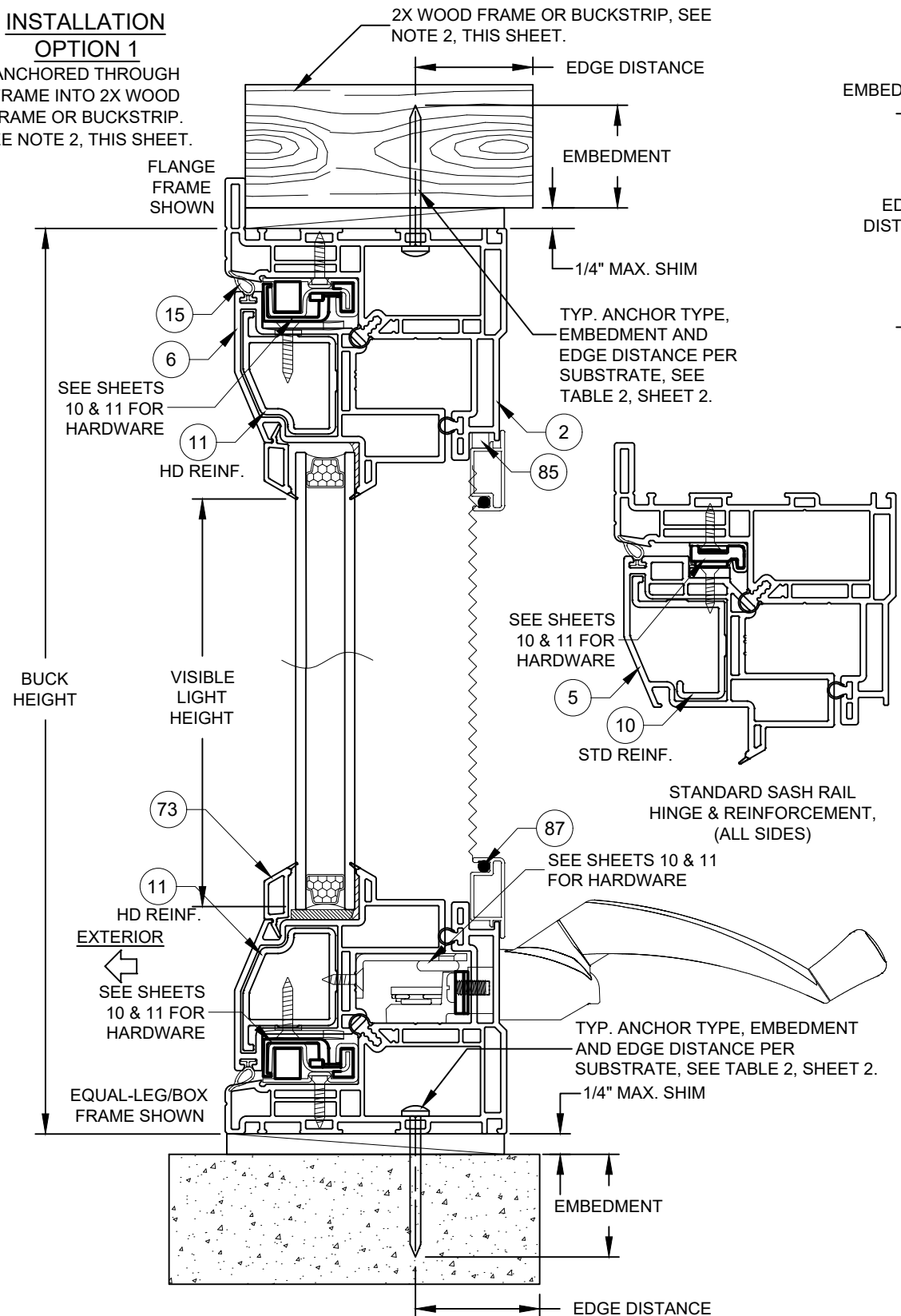
Revision: NO CHANGES IN THIS SHEET.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	09/09/14	By	A. MORLESIN	Rev.	E
		VINYL CASEMENT WINDOW (LM)		FRAME, GLASS & ANCHOR OPT.		MD-5540C.0	
		2 OF 11		CA5540			
		CUSTOM WINDOWS AND DOORS		3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600			



INSTALLATION DETAILS FOR FLANGE & EQUAL-LEG/BOX FRAMES

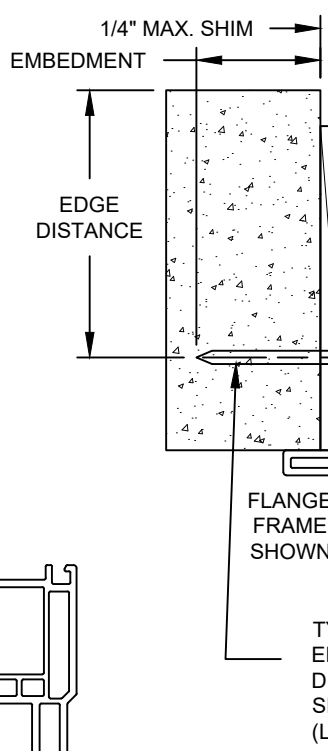
**INSTALLATION
OPTION 1**
ANCHORED THROUGH
FRAME INTO 2X WOOD
FRAME OR BUCKSTRIP.
SEE NOTE 2, THIS SHEET.



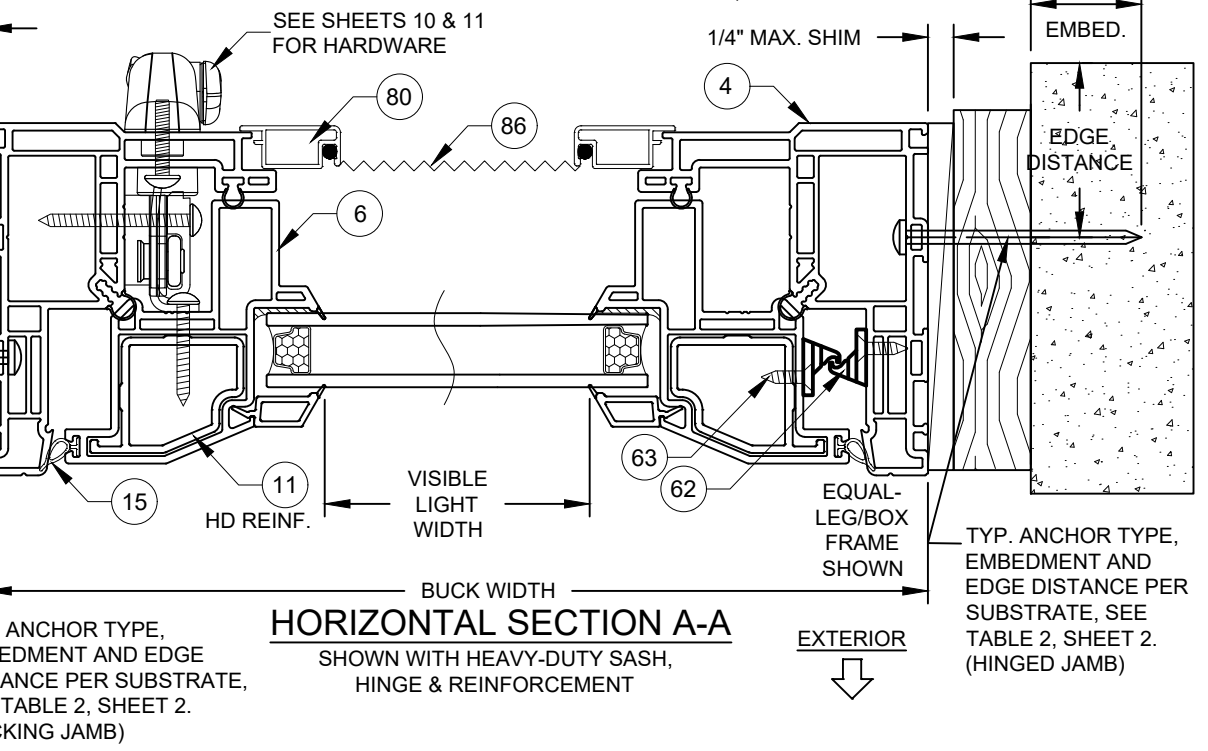
**INSTALLATION
OPTION 2**
ANCHORED THROUGH
FRAME DIRECTLY INTO
CONCRETE/CMU.

VERTICAL SECTION B-B
SHOWN WITH HEAVY-DUTY SASH,
HINGE & REINFORCEMENT

INSTALLATION OPTION 2
ANCHORED THROUGH FRAME
DIRECTLY INTO CONCRETE/CMU.



INSTALLATION OPTION 3
ANCHORED THROUGH FRAME AND 1X
BUCKSTRIP INTO CONCRETE/CMU.
SEE NOTE 2, THIS SHEET.

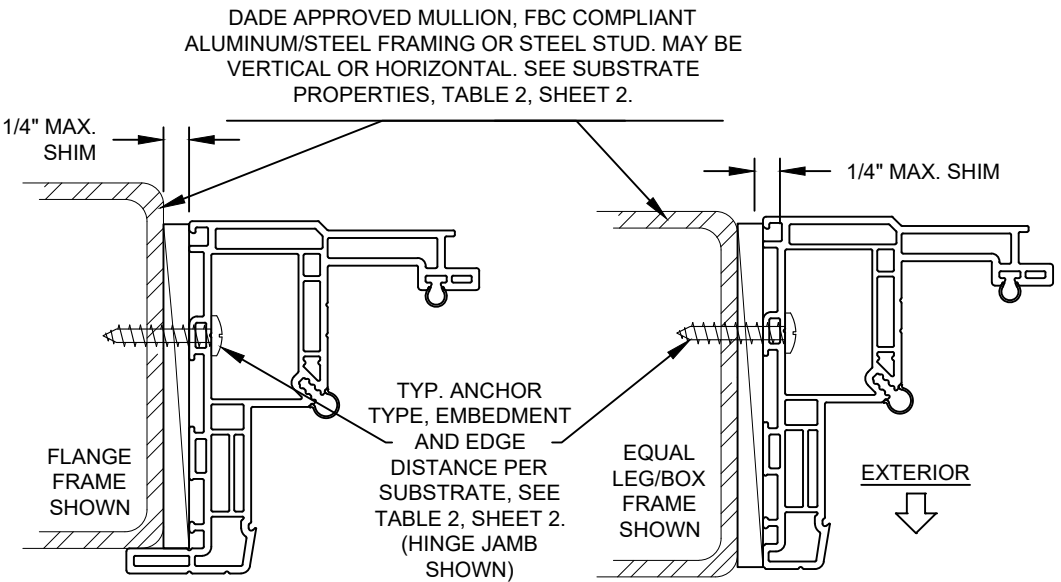


HORIZONTAL SECTION A-A
SHOWN WITH HEAVY-DUTY SASH,
HINGE & REINFORCEMENT

NOTES:

- 1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 2, SHEET 2. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 2, SHEET 2. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND SECURED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
- 3) VISIBLE LIGHT WIDTH OR HEIGHT (ALSO REFERRED TO AS DAYLIGHT OPENING) IS MEASURED FROM BEADING TO BEADING.

VISIBLE LIGHT FORMULAS
WIDTH: BUCK WIDTH - 6-3/4"
HEIGHT: BUCK HEIGHT - 6-3/4"



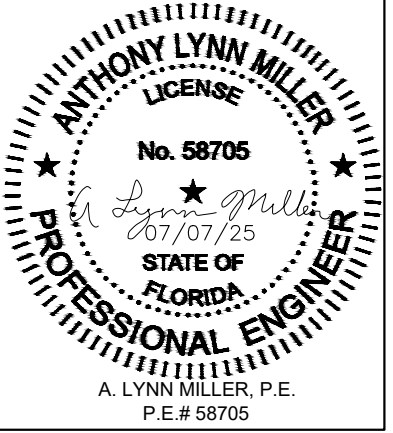
**INSTALLATION
OPTION 4**
ANCHORED THROUGH
FRAME INTO METAL

**INSTALLATION
OPTION 5**
ANCHORED THROUGH
FRAME INTO METAL

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NO CHANGES IN THIS
SHEET.

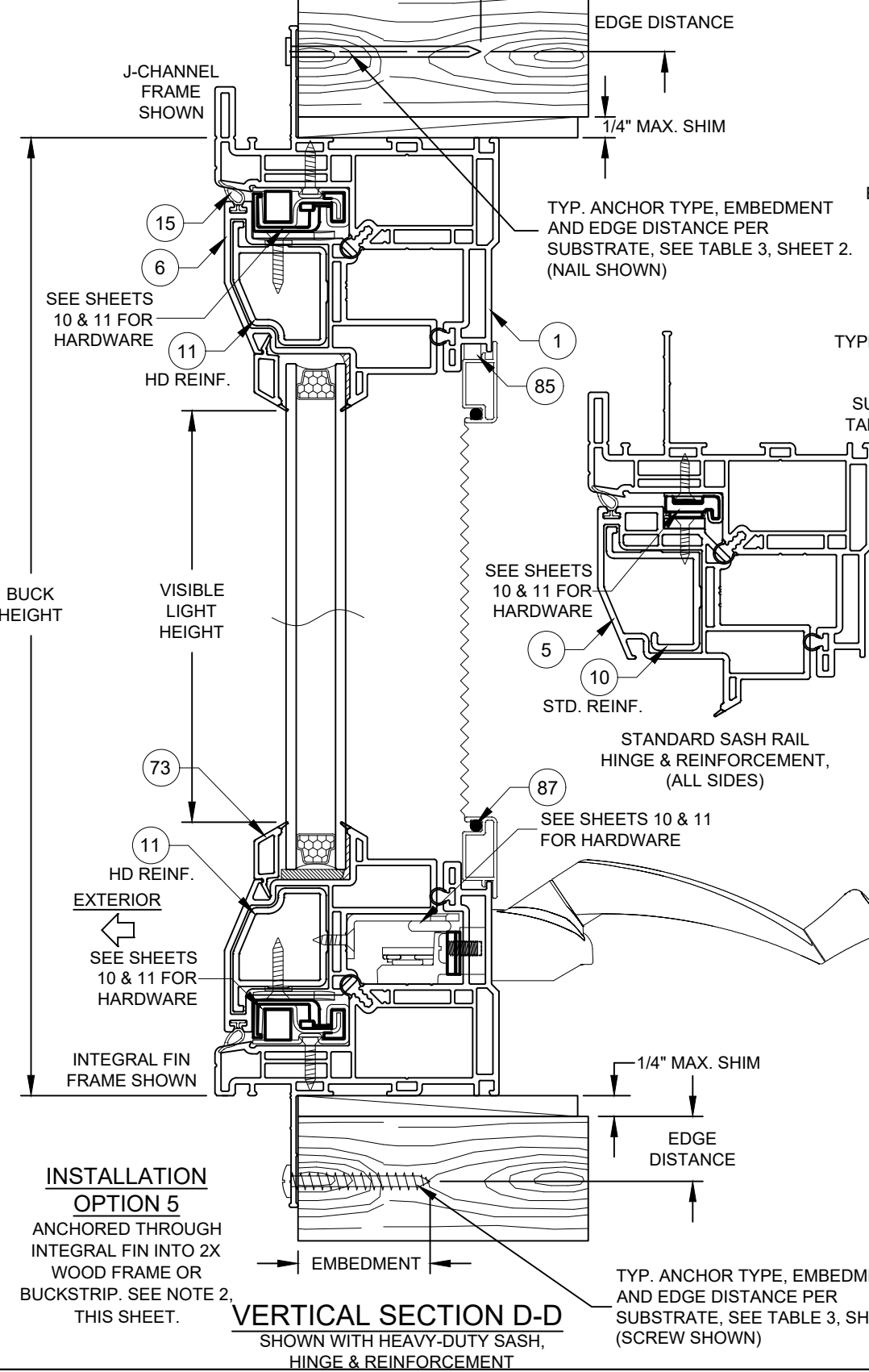
		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
Custom Windows and Doors		REGISTRATION #29296	
3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		VINYL CASEMENT WINDOW (LM)	
Title		Date	09/09/14
Desc.		By	A. MORLESIN
INST., FLANGE & EQUAL LEG/BOX		DWG	MD-5540C.0
Sheet		No.	Rev.
CA5540	3 OF 11		E



INSTALLATION DETAILS FOR INTEGRAL FIN & J-CCHANNEL FRAMES

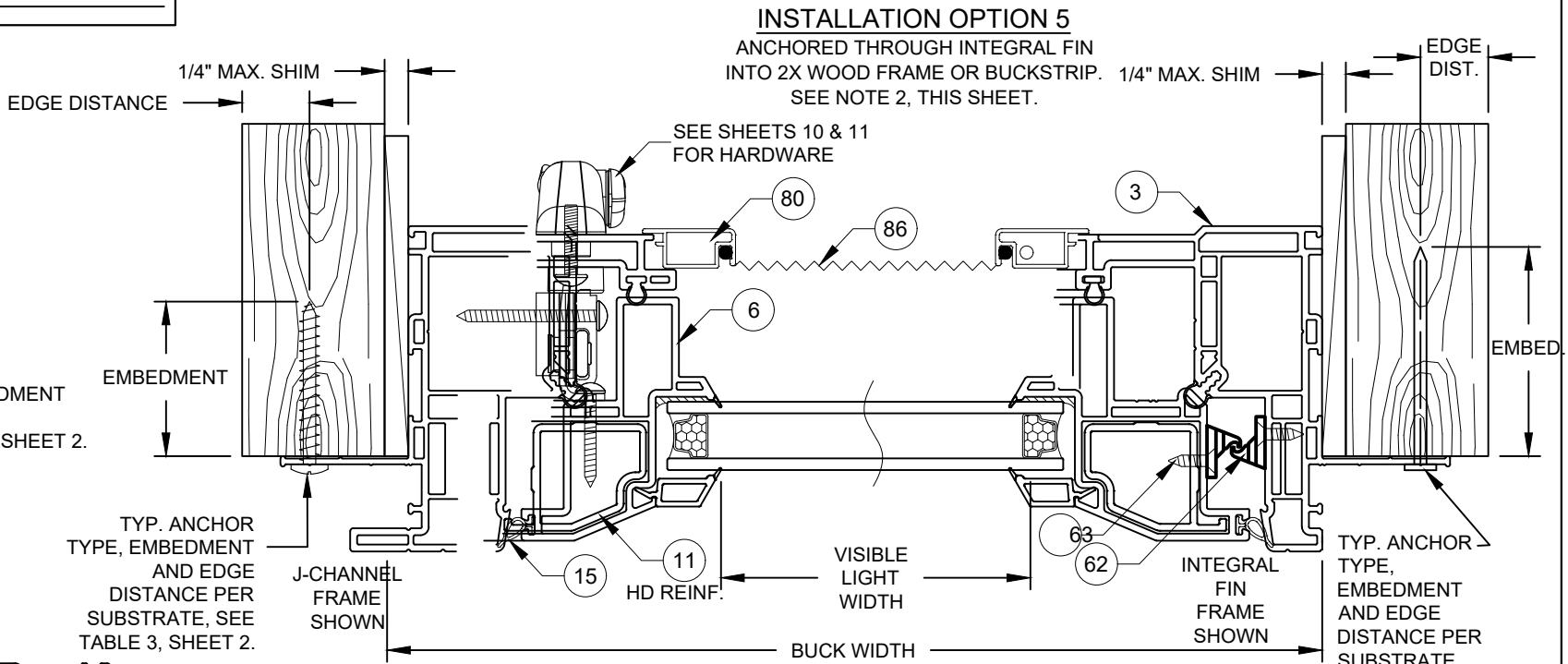
INSTALLATION OPTION 5

ANCHORED THROUGH INTEGRAL FIN INTO 2X WOOD FRAME OR BUCKSTRIP. SEE NOTE 2, THIS SHEET.



INSTALLATION OPTION 5
ANCHORED THROUGH INTEGRAL FIN INTO 2X WOOD FRAME OR BUCKSTRIP. SEE NOTE 2, THIS SHEET.

VERTICAL SECTION D-D
SHOWN WITH HEAVY-DUTY SASH, HINGE & REINFORCEMENT



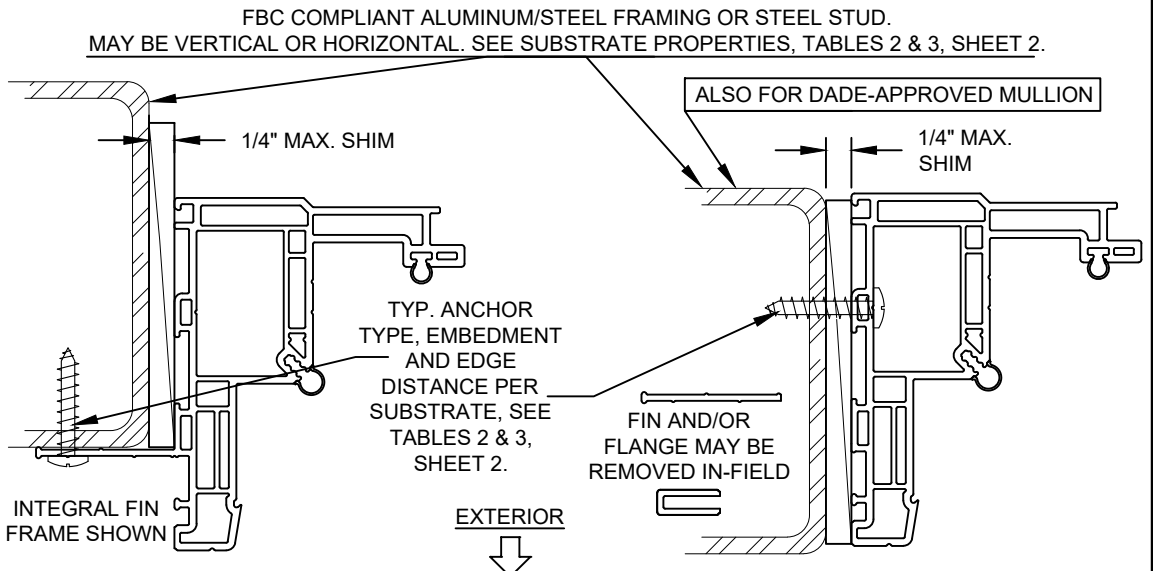
INSTALLATION OPTION 5
ANCHORED THROUGH INTEGRAL FIN INTO 2X WOOD FRAME OR BUCKSTRIP. 1/4\"/>

HORIZONTAL SECTION C-C
SHOWN WITH HEAVY-DUTY SASH, HINGE & REINFORCEMENT

NOTES:

- 1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLES 2 & 3, SHEET 2. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 2, SHEET 2. ALL WOOD BUCKS LESS THAN 1-1/2\"/>
- 3) VISIBLE LIGHT WIDTH OR HEIGHT (ALSO REFERRED TO AS DAYLIGHT OPENING) IS MEASURED FROM BEADING TO BEADING.

VISIBLE LIGHT FORMULAS
WIDTH: BUCK WIDTH - 6-3/4\"/>



INSTALLATION OPTION 7
ANCHORED THROUGH INTEGRAL FIN INTO METAL

INSTALLATION OPTION 8
ANCHORED THROUGH FRAME INTO METAL

INSTALLATION OPTION 4 (FLANGE FRAME), ALLOWED WITH MULLION INSTALLATION, SEE PAGE 3 FOR DETAILS

PRODUCT REVISED
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By: *Manuel Perez*
Miami-Dade Product Control

Revision: NO CHANGES IN THIS SHEET.

PGT Custom Windows and Doors		3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600			
Title		VINYL CASEMENT WINDOW (LM)				Date		09/09/14	
Desc.		INST., INTEGRAL FIN & J-CHAN.				Drawn By		A. MORLESIN	
Series		CA5540		Sheet		4 OF 11		DWG No.	
								MD-5540C.0	
								Rev.	
								E	

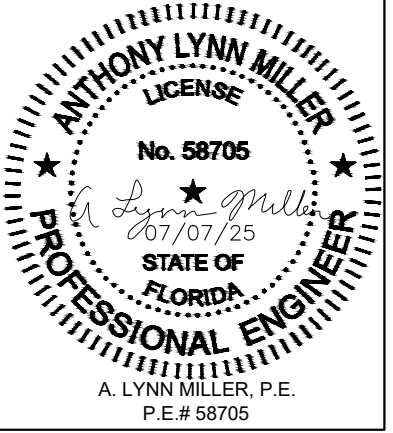
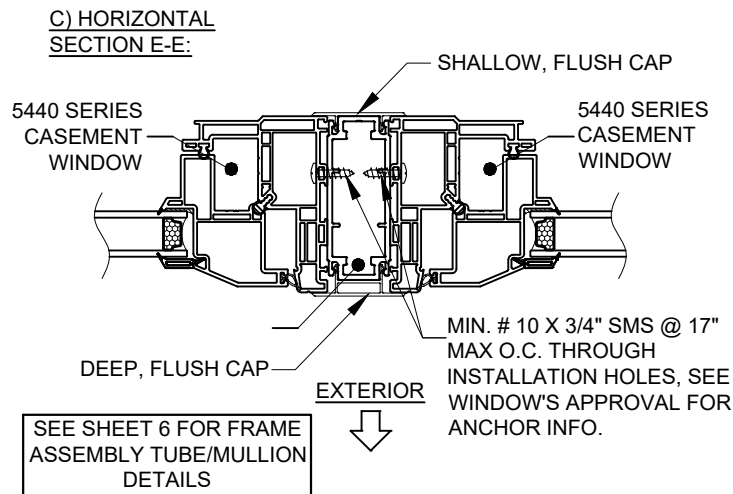
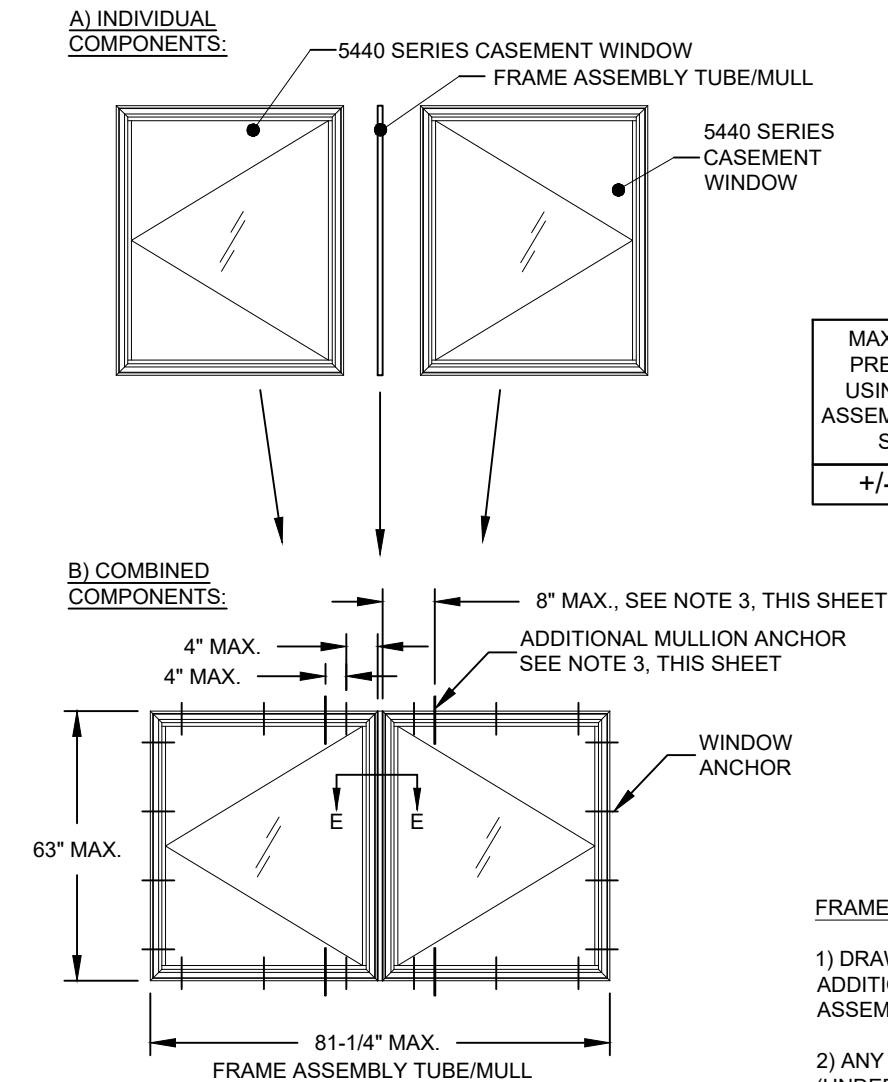


ILLUSTRATION OF CASEMENT-TO-CASEMENT (X-X)
(EQUAL LEG/BOX FRAME WITH IDENTICAL PRODUCTS COMBINED)



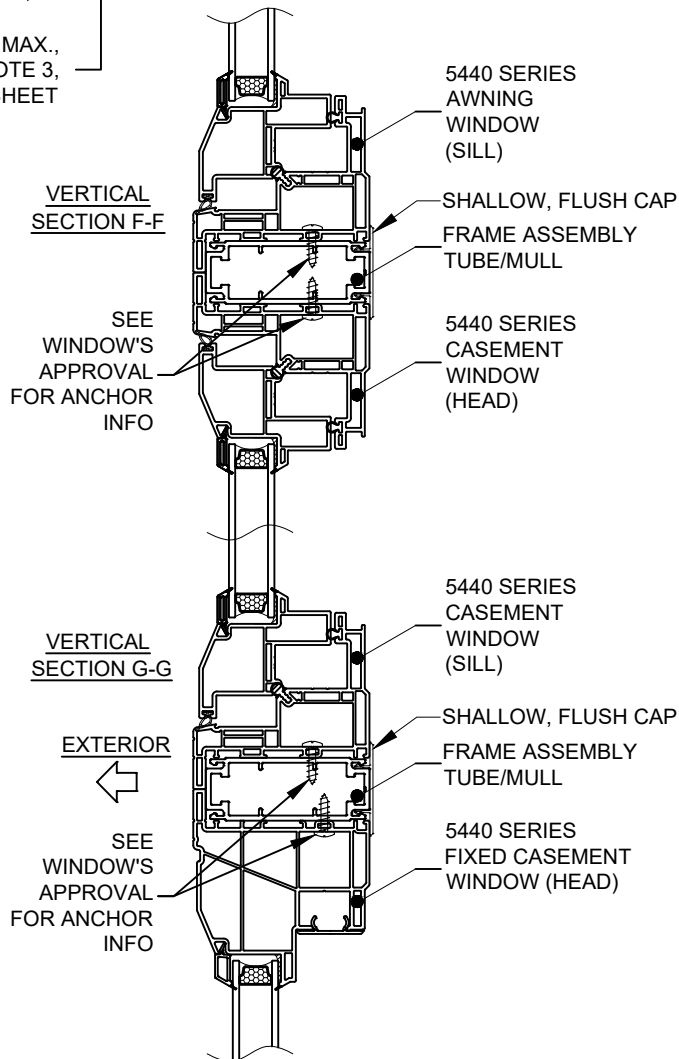
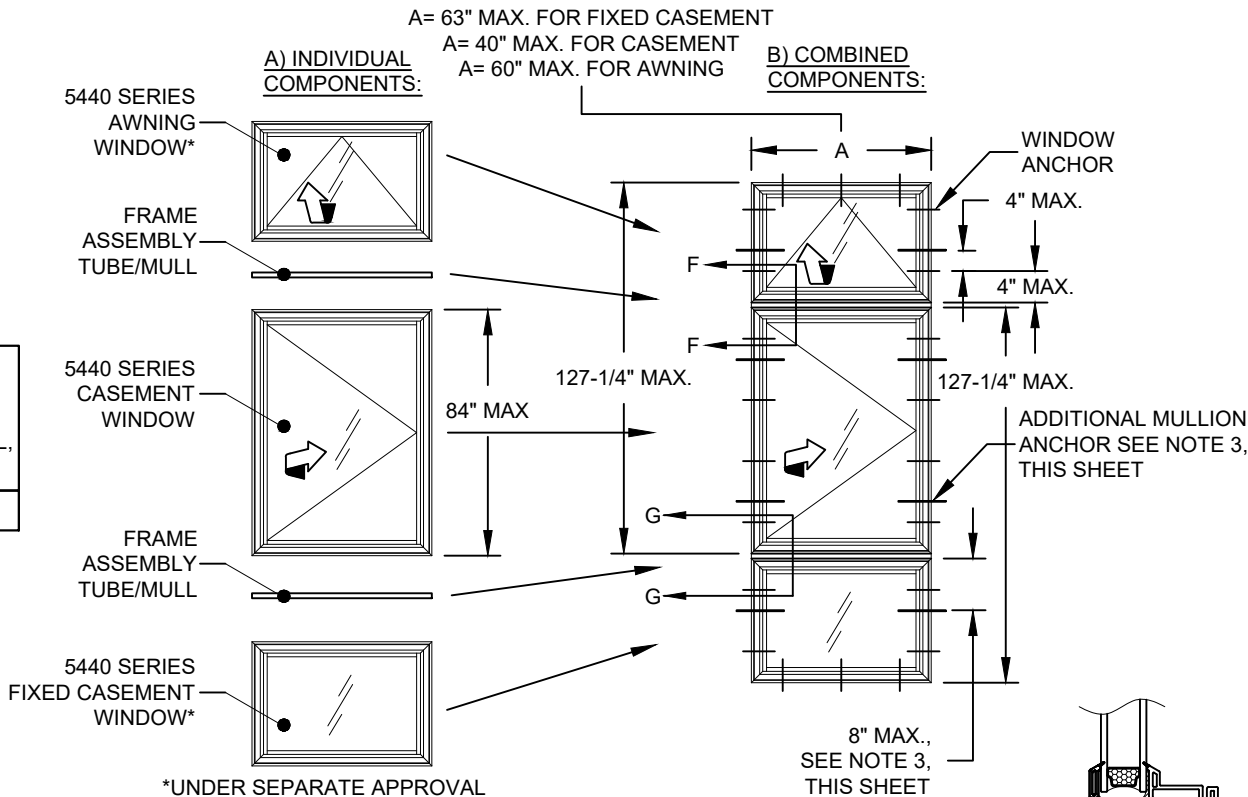
MAXIMUM DESIGN PRESSURE WHEN USING THE FRAME ASSEMBLY TUBE/MULL, SEE NOTE 2:

+/- 70.0 PSF

FRAME ASSEMBLY TUBE/MULL NOTES, ALSO SEE NEXT SHEET:

- 1) DRAWINGS SHOWN ON THIS SHEET ARE EXAMPLE CONFIGURATIONS FOR ALL FRAME TYPES. ADDITIONAL CONFIGURATIONS BASED ON WINDOW SIZE, TYPE, SHAPE, QUANTITY AND FRAME ASSEMBLY TUBE ORIENTATION ARE PERMISSIBLE FOLLOWING THE GUIDELINES OF THIS SHEET.
- 2) ANY 5440-SERIES CASEMENT, FIXED CASEMENT (UNDER SEPARATE APPROVAL) OR AWNING (UNDER SEPARATE APPROVAL) WINDOW MAY BE ATTACHED TO THE FRAME ASSEMBLY TUBE/MULL, IN ANY COMBINATION TO THE SPAN AND WIDTH LIMIT SHOWN. FOR ALL WINDOWS IN THE ASSEMBLY, USE EACH WINDOW'S INDIVIDUAL APPROVAL FOR ANCHORAGE, SIZE AND DESIGN PRESSURE LIMITATIONS. THE LOWEST DESIGN PRESSURE OF THE WINDOWS OR FRAME ASSEMBLY TUBE/MULL APPLIES TO THE ENTIRE ASSEMBLY.
- 3) FOR ALL COMBINATION UNITS, ADDITIONAL INSTALLATION ANCHORS ARE REQUIRED TO BE INSTALLED THROUGH THE WINDOW FRAMES, AS SHOWN ON THIS SHEET, ON EACH SIDE OF THE FRAME ASSEMBLY TUBE/MULL WHEN USING FLANGE OR EQUAL-LEG/BOX FRAMES. FOR FIN OR J-CHANNEL FRAMES ADDITIONAL ANCHORS AND END CAPS ARE REQUIRED AS SHOWN ON SHEET 6.
- 4) FOR FLANGE OR EQUAL-LEG/BOX FRAMES, THE FRAME ASSEMBLY TUBE TO BE FASTENED TO WINDOW, AS SHOWN IN DETAILS, WITH MIN. #10 X 3/4" SHEET METAL SCREWS. USE THE SAME SPACING AND QUANTITY AS THE WINDOW INSTALLATION ANCHORS GIVEN IN THAT PRODUCT'S APPROVAL, UP TO 17" MAX. O.C., ADD ADDITIONAL ANCHORS AS NEEDED. THE FRAME ASSEMBLY TUBE IS NOT REQUIRED TO BE CLIPPED TO THE SUBSTRATE. ALL EXTERIOR JOINTS TO BE SEALED BY INSTALLER.
- 5) THE FRAME ASSEMBLY TUBE/MULL MAY NOT EXCEED 63" IN LENGTH OR BE USED IN TEE OR CROSS CONFIGURATIONS. TWO ADJACENT WINDOWS MAY NOT EXCEED A TOTAL OF 127-1/4" IN WIDTH OR HEIGHT, FROM WINDOW BUCK TO WINDOW BUCK, INCLUDING THE FRAME ASSEMBLY TUBE/MULL WIDTH.
- 6) SHEET 5 & 6 REFER TO UNCLIPPED MULLION ASSEMBLIES. FOR CLIPPED MULLION ASSEMBLIES SEE TUBE MULLION UNDER SEPARATE APPROVAL.

ILLUSTRATION OF AWNING-TO-CASEMENT-TO-FIXED CASEMENT (X/X/O)
(FLANGE FRAME WITH DIFFERENT 5440 SERIES PRODUCTS COMBINED)



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Miami-Dade Product Control

Revision: NO CHANGES IN THIS SHEET.

PGT Custom Windows and Doors		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600					
3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296					
Title	VINYL CASEMENT WINDOW (LM)		Date	09/09/14			
GLAZING DETAILS.		Drawn By	A. MORLESIN				
Series	CA5540	Sheet	5 OF 11	DWG No.	MD-5540C.0	Rev.	E

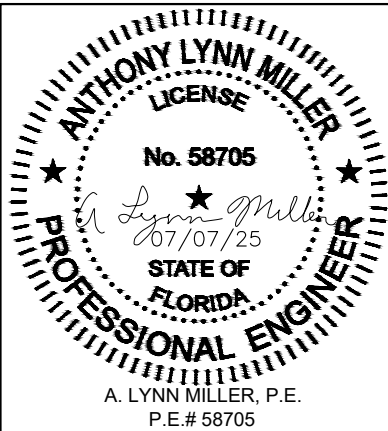
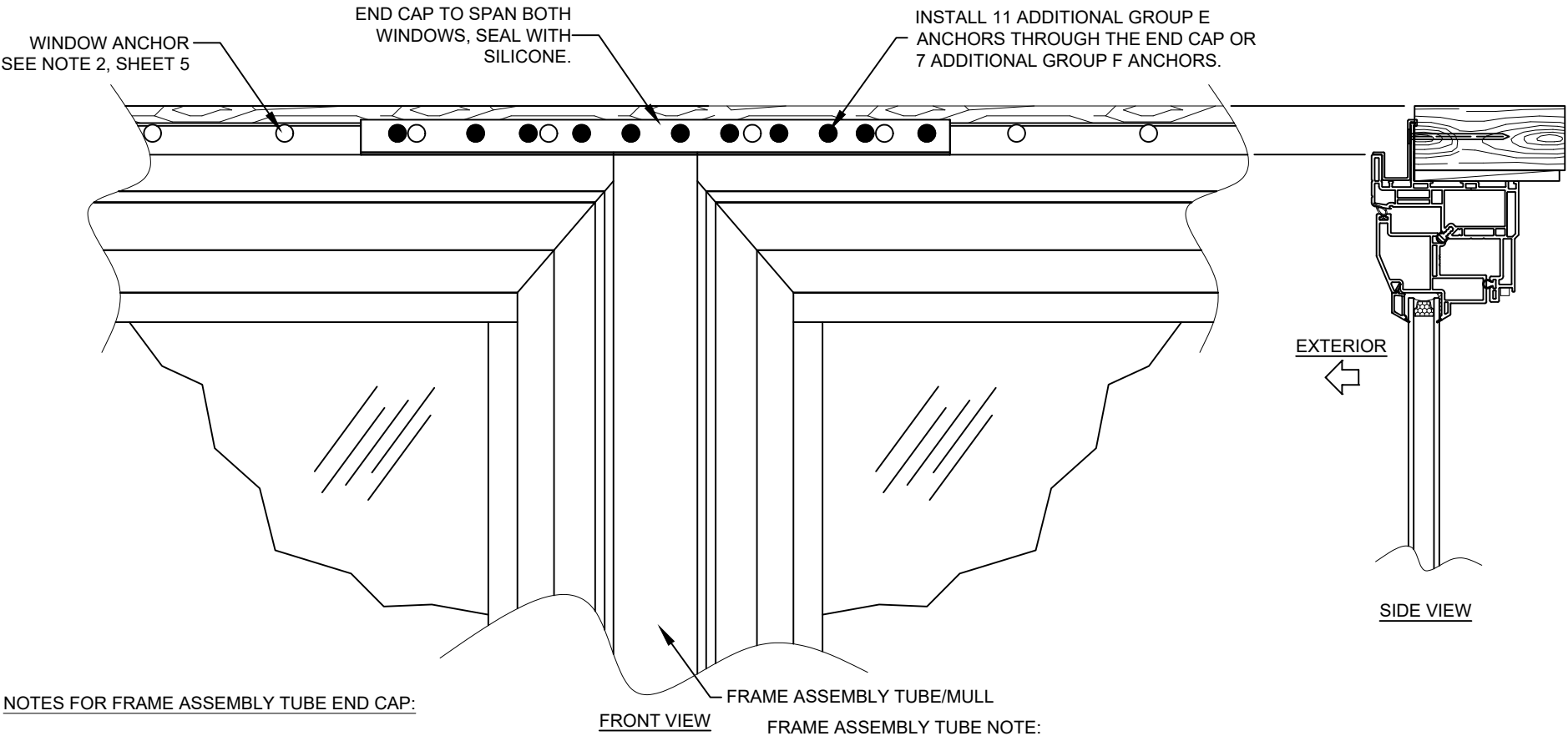
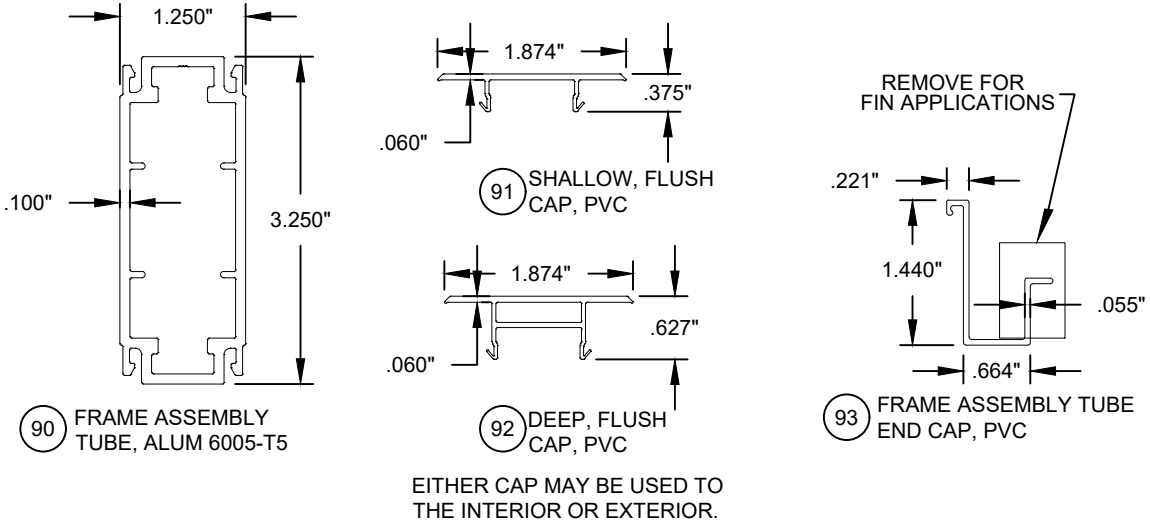


ILLUSTRATION OF END CAP USE WITH FIN AND J-CCHANNEL FRAMES

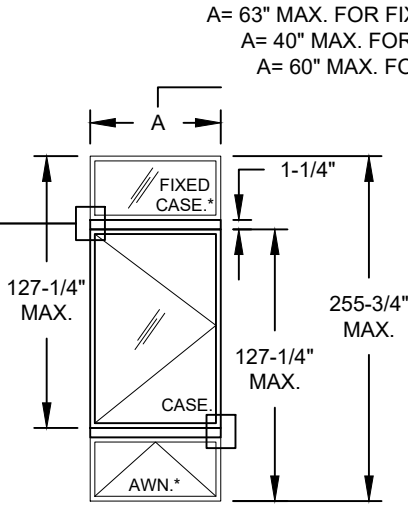


NOTES FOR FRAME ASSEMBLY TUBE END CAP:

- 1) APPLIES TO FIN OR J-CHANNEL FRAMES.
- 2) REQUIRED AT HEADER/SILL OR JAMBS TO SEAL THE END OF THE FRAME ASSEMBLY TUBE.
- 3) ALL WINDOW TYPES AND FRAME ASSEMBLY TUBE ORIENTATIONS APPLICABLE, SEE SHEET 5.
- 4) END CAP MAY REQUIRE IN-FIELD TRIMMING. STANDARD LENGTH IS 14".

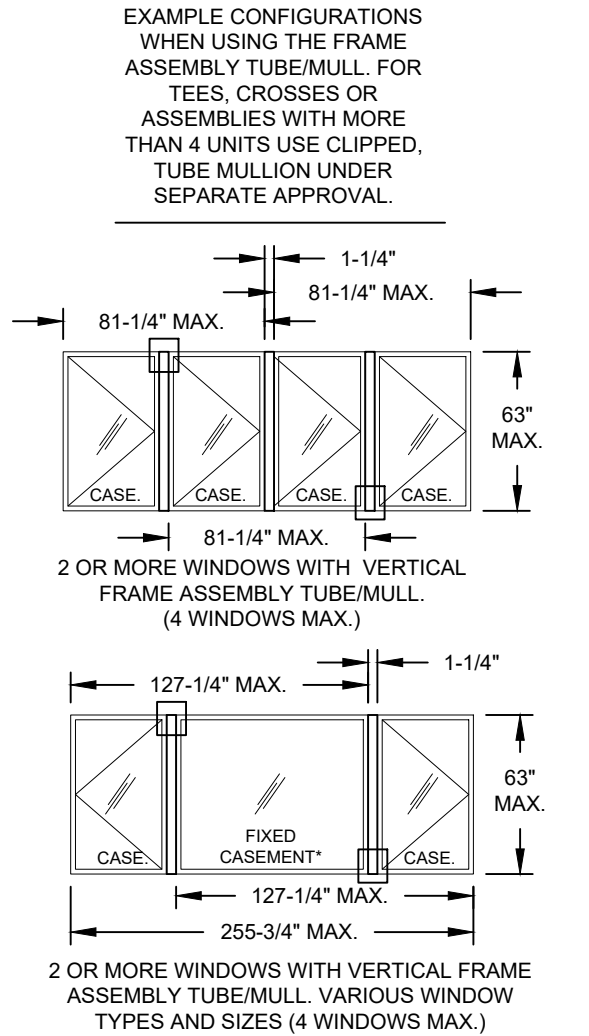


REFER TO SHEET 5 FOR THROUGH-FRAME ANCHORAGE AND THIS SHEET FOR NAIL FIN ANCHORAGE DETAILS TYP. AT ALL FRAME ASSEMBLY TUBE ENDS BOTH HORIZONTAL AND VERTICAL



2 OR MORE WINDOWS (4 WINDOWS MAX.) WITH HORIZONTAL FRAME ASSEMBLY TUBE/MULL. VARIOUS WINDOW TYPES AND SIZES.

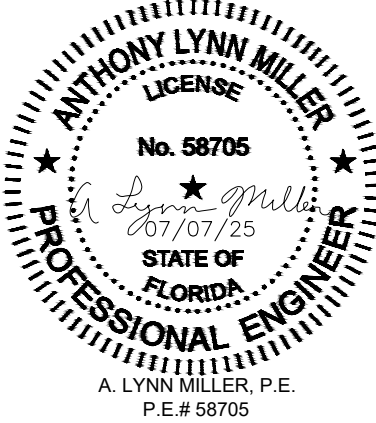
*UNDER SEPARATE APPROVAL

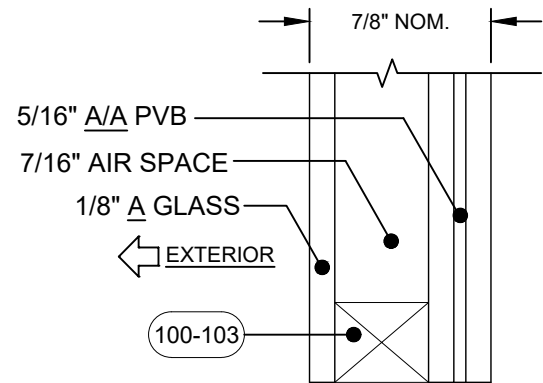


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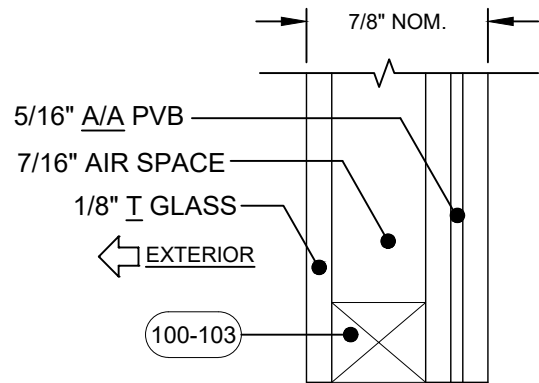
Revision: NO CHANGES IN THIS SHEET.

 Custom Windows and Doors		3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296		09/09/14	
				Date			
		VINYL CASEMENT WINDOW (LM)		A. MORLESIN			
		ANCHOR QUANTITY TABLE		By		Drown	
		6 OF 11		DWG No.		MD-5540C.0	
		Sheet		CA5540		Rev.	
						E	

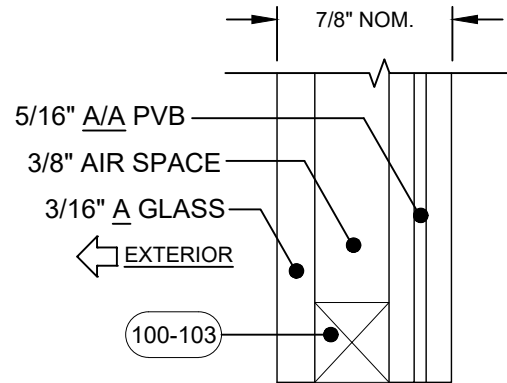




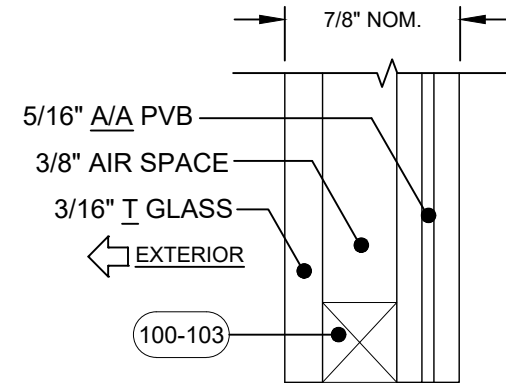
GLASS TYPE 5



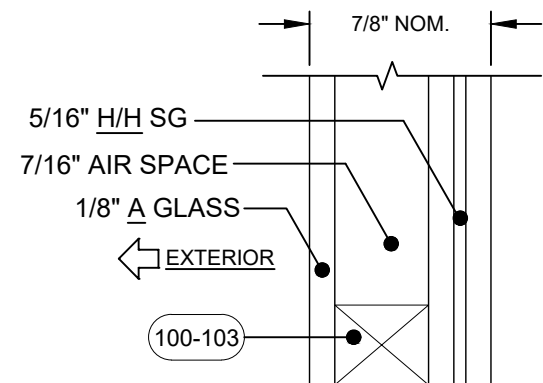
GLASS TYPE 6



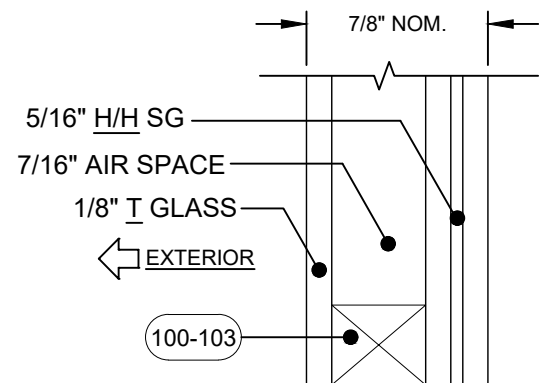
GLASS TYPE 7



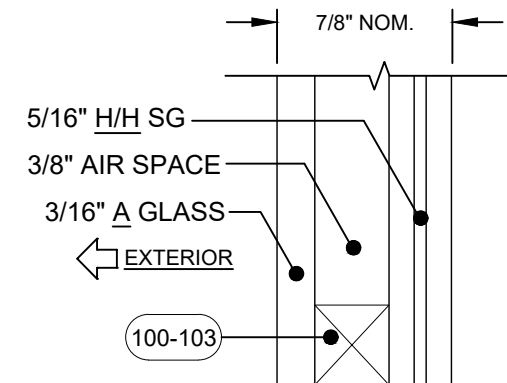
GLASS TYPE 8



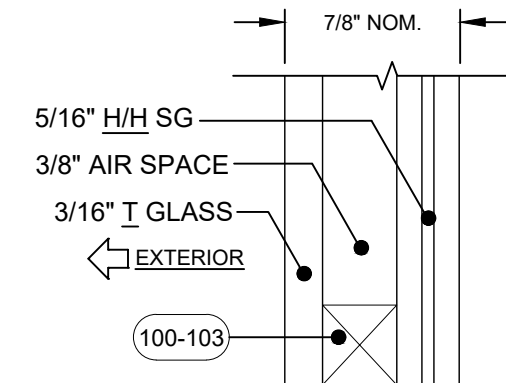
GLASS TYPE 9



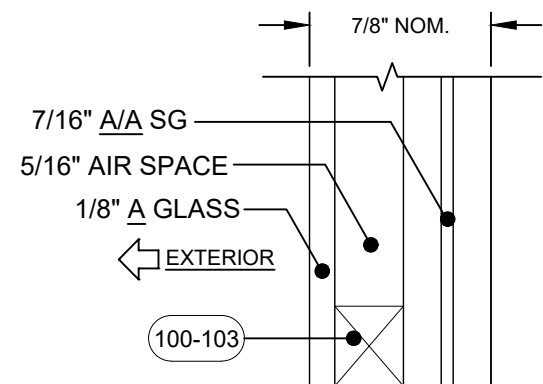
GLASS TYPE 10



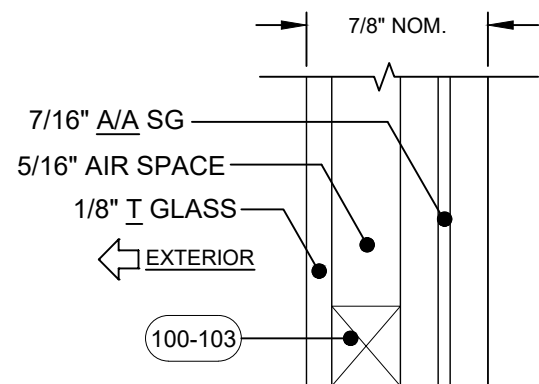
GLASS TYPE 11



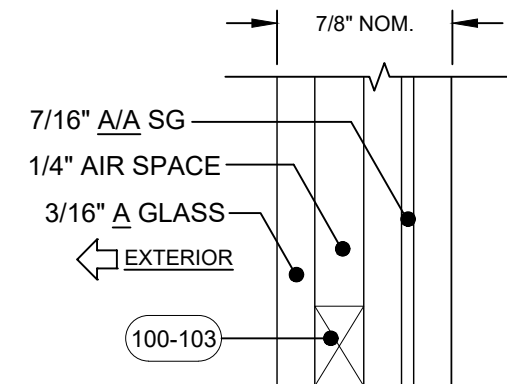
GLASS TYPE 12



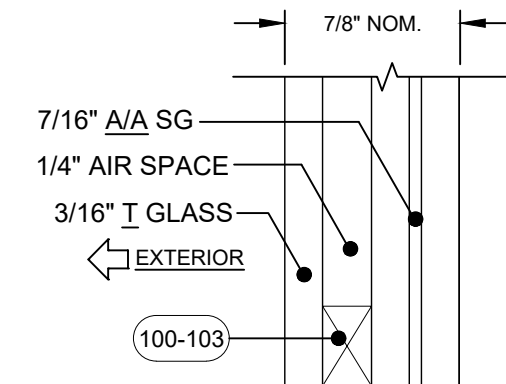
GLASS TYPE 13



GLASS TYPE 14



GLASS TYPE 15



GLASS TYPE 16

GLAZING NOTES:
 "A" = ANNEALED
 "H" = HEAT STRENGTHENED
 "T" = TEMPERED
 "PVB" = .090" TROSIFOL® PVB
 BY KURARAY AMERICA, INC.
 "SG" = .090" SENTRYGLAS® INTERLAYER BY KURARAY
 AMERICA, INC.

- 1) FOR LAMINATED GLAZING COMPONENTS, SEE TABLE 1, SHEET 2.
- 2) SEE TYPICAL GLAZING DETAIL ON SHEET 2.

! GLASS TYPES 9 THROUGH
 16 MAY NOT BE USED WITH
 J-CHANNEL OR INTEGRAL
 FIN FRAMES

! GLASS TYPES 5, 7, 9, 11, 13
 & 15 MAY NOT BE USED IN
 THE HVHZ ABOVE 30'.

PRODUCT REVISED
 As complying with the Florida
 Building Code
NOA-No. 25-0710.01
Expiration Date: 09/17/2030
 By: *Manuel Perez*
Miami-Dade Product Control

Revision: NO CHANGES IN THIS
 SHEET.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	09/09/14	By	A. MORLESIN	DWG No.	MD-5540C.0	Rev.	E
		VINYL CASEMENT WINDOW (LM)			DESIGN PRESSURES.	7 OF 11	CA5540	Sheet	

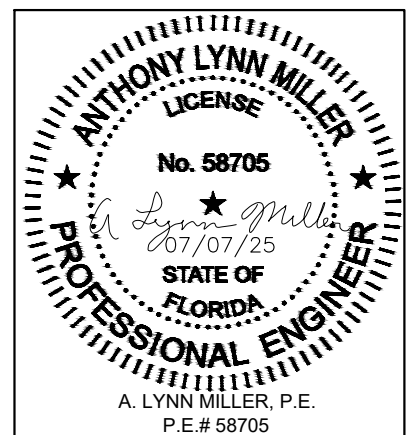


TABLE 4:

Window Design Pressure, (+/- psf)																Standard Sash, Hinge & Reinforcement	Use this table for Glass Type:	5	
1/8" A CAP, AIRSPACE, 1/8" A, .090" PVB, 1/8" A																			
Window Dimensions	Buck Width (in)																		
	24	26	28	30.683	31.052	31.431	31.819	32.217	32.625	33.043	33.472	33.912	34.365	34.829	35.306	35.797	36		
Buck Height (in)	48	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	
	60	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.7	+65/-69.2	+65/-68.6	+65/-68.1	+65/-67.5	+65/-67	+65/-66.5	+65/-65.9	+65/-65.4	+/-64.9	+/-64.4	+/-64.2	
	66	+65/-70	+65/-70	+65/-70	+65/-68.7	+65/-68.1	+65/-67.5	+65/-67	+65/-66.4	+65/-65.8	+65/-65.3	+/-64.7	+/-64.2	+/-63.6	+/-63.1	+/-62.5	+/-62	+/-61.8	
	70	+65/-70	+65/-70	+65/-70	+65/-67.5	+65/-66.9	+65/-66.3	+65/-65.8	+65/-65.2	+/-64.6	+/-64.1	+/-63.5	+/-62.9	+/-62.4	+/-61.8	+/-61.2	+/-60.7	+/-60.5	
	71.593	+65/-70	+65/-70	+65/-70	+65/-67.1	+65/-66.5	+65/-65.9	+65/-65.3	+/-64.8	+/-64.2	+/-63.6	+/-63	+/-62.5	+/-61.9	+/-61.3	+/-60.8	+/-60.2	+/-60	
	72	+65/-70	+65/-70	+65/-70	+65/-67	+65/-66.4	+65/-65.8	+65/-65.2	+/-64.7	+/-64.1	+/-63.5	+/-62.9	+/-62.4	+/-61.8	+/-61.2	+/-60.7	+/-60.1		
	73	+65/-70	+65/-70	+65/-70	+65/-66.7	+65/-66.1	+65/-65.6	+/-65	+/-64.4	+/-63.5	+/-63.1	+/-62.6	+/-62.1	+/-61.5	+/-61	+/-60.4			
	74	+65/-70	+65/-70	+65/-70	+65/-66.5	+65/-65.9	+65/-65.3	+/-64.6	+/-63.7	+/-62.9	+/-62.3	+/-61.7	+/-61.3	+/-60.8	+/-60.4				
	75	+65/-70	+65/-70	+65/-70	+65/-66.2	+65/-65.7	+/-64.7	+/-63.8	+/-63	+/-62.2	+/-61.5	+/-60.8	+/-60.3	+/-59.9					
	76	+65/-70	+65/-70	+65/-70	+65/-66	+65/-65.1	+/-64	+/-63.1	+/-62.4	+/-61.6	+/-60.8	+/-60	+/-59.4						
	77	+65/-70	+65/-70	+65/-70	+65/-65.2	+/-64.3	+/-63.3	+/-62.5	+/-61.8	+/-61	+/-60.2	+/-59.3							
	78	+65/-70	+65/-70	+65/-70	+/-64.3	+/-63.5	+/-62.7	+/-61.9	+/-61.2	+/-60.4	+/-59.6								
	79	+65/-70	+65/-70	+65/-70	+/-63.7	+/-62.9	+/-62.1	+/-61.4	+/-60.6	+/-59.8	MAX. JAMB O.C. SPACING IF ANCHORING THROUGH THE FRAME PER SHEETS 3 & 4			MAX. O.C. SPACING IF ANCHORING THROUGH THE INTEGRAL FIN PER SHEET 4					
	80	+65/-70	+65/-70	+65/-70	+/-63.2	+/-62.4	+/-61.6	+/-60.8	+/-60										
	81	+65/-70	+65/-70	+65/-69.8	+/-62.6	+/-61.8	+/-61	+/-60.2				APPLIES TO B, C OR D ANCHORS (SEE TABLE 2)			APPLIES TO F ANCHORS (SEE TABLE 3)				
	82	+65/-70	+65/-70	+65/-69.6	+/-62.2	+/-61.3	+/-60.5												
	83	+65/-70	+65/-70	+65/-69.5	+/-61.7	+/-60.9							12.67"			4"			
	84	+65/-70	+65/-70	+65/-69.3	+/-61.3														

TABLE 5:

Window Design Pressure, (+/- psf)																Standard Sash, Hinge & Reinforcement	Use this table for Glass Type:	6
1/8" T CAP, AIRSPACE, 1/8" A, .090" PVB, 1/8" A																		
Window Dimensions		Buck Width (in)																
		24	26	28	30.683	31.052	31.431	31.819	32.217	32.625	33.043	33.472	33.912	34.365	34.829	35.306	35.797	36
Buck Height (in)	48	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
	60	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
	66	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
	70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
	71.593	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.6	+65/-69.2	+65/-68.7	+65/-68.6
	72	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.7	+65/-69.2	+65/-68.8	+65/-68.3
	73	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.6	+65/-69.1	+65/-68.6	+65/-68.2	+65/-67.7	
	74	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.8	+65/-69.2	+65/-68.6	+65/-68.1	+65/-67.6	+65/-67.1		
	75	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.1	+65/-68.4	+65/-67.6	+65/-67	+65/-66.5			
	76	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.3	+65/-68.4	+65/-67.6	+65/-66.7	+65/-66				
	77	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.5	+65/-68.6	+65/-67.8	+65/-66.9	+65/-65.9					
	78	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.7	+65/-68.8	+65/-68	+65/-67.1	+65/-66.2						
	79	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.9	+65/-69	+65/-68.2	+65/-67.3	+65/-66.4	MAX. JAMB O.C. SPACING IF ANCHORING THROUGH THE FRAME PER SHEETS 3 & 4			MAX. O.C. SPACING IF ANCHORING THROUGH THE INTEGRAL FIN PER SHEET 4				
	80	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.3	+65/-68.4	+65/-67.5	+65/-66.6									
	81	+65/-70	+65/-70	+65/-70	+65/-69.6	+65/-68.7	+65/-67.8	+65/-66.9			APPLIES TO B, C OR D ANCHORS (SEE TABLE 2)			APPLIES TO F ANCHORS (SEE TABLE 3)				
	82	+65/-70	+65/-70	+65/-70	+65/-69.1	+65/-68.2	+65/-67.2											
	83	+65/-70	+65/-70	+65/-70	+65/-68.6	+65/-67.6					12.67"			4"				
	84	+65/-70	+65/-70	+65/-70	+65/-68.1													

NOTES:
1) BUCK DIMENSIONS SHOWN.

2) FOR SIZES NOT SHOWN,
ROUND UP TO THE NEXT
AVAILABLE WIDTH OR HEIGHT
DIMENSION.

GLASS TYPES 5, 7, 9, 11, 13
& 15 MAY NOT BE USED IN
THE HVHZ ABOVE 30'.

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. 25-0710.01
Expiration Date: 09/17/2030
By: Manuel Perez
Miami-Dade Product Control

Revision: NO CHANGES IN THIS SHEET.

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296

PGI

Custom Windows and Doors

3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

VINYL CASEMENT WINDOW (LM)

ANCHOR QUANTITIES.

09/09/14

By A. MORLESIN

MD-5540C.0

8 OF 11

CA5540

Rev.

DWG No.

Sheet

Series Desc.

Title

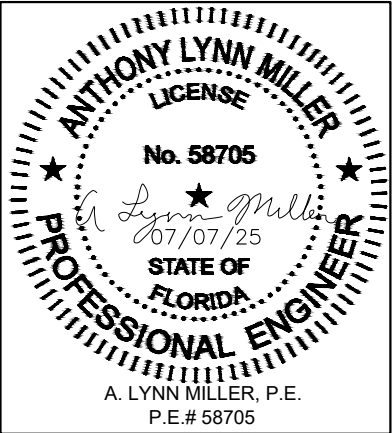


TABLE 6:

Window Design Pressure, (+/- psf)													Heavy-Duty Sash, Hinge & Reinforcement	Use this table for Glass Type:	7 & 8
3/16" A CAP, AIRSPACE, 1/8" A, .090" PVB, 1/8" A & 3/16" T CAP, AIRSPACE, 1/8" A, .090" PVB, 1/8" A															
Window Dimensions		Buck Width (in)													
		30.683	31.052	31.431	31.819	32.217	32.625	33.043	33.472	33.912	34.365	34.829	35.306	35.797	36
Buck Height (in)	71.593	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
	72	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
	73	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
	74	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
	75	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
	76	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
	77	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
	78	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
	79	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
	80	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
	81	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
	82	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
	83	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
	84	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70

MAX. JAMB O.C. SPACING IF ANCHORING THROUGH THE FRAME PER	MAX. O.C. SPACING IF ANCHORING THROUGH THE INTEGRAL FIN PER SHEET 4
APPLIES TO B, C OR D ANCHORS (SEE TABLE 2)	APPLIES TO F ANCHORS (SEE TABLE 3)
12.67"	4"

TABLE 7:

Window Design Pressure, (+/- psf)										Heavy-Duty Sash, Hinge & Reinforcement	Use this table for Glass Type:	9, 10, 11 & 12
1/8" A CAP, AIRSPACE, 1/8" H, .090" SG, 1/8" H & 1/8" T CAP, AIRSPACE, 1/8" H, .090" SG, 1/8" H												
3/16" A CAP, AIRSPACE, 1/8" H, .090" SG, 1/8" H & 3/16" T CAP, AIRSPACE, 1/8" H, .090" SG, 1/8" H												
Window Dimensions		Buck Width (in)										
		24	26	28	30	32	34.005	35.705	36.621	38.085	39.129	40
Buck Height (in)	48	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110
	60	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110
	72	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110
	76	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110
	84	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110

MAX. JAMB O.C. SPACING IF ANCHORING THROUGH THE FRAME PER SHEETS 3 & 4
APPLIES TO B, C OR D ANCHORS (SEE TABLE 2)
10.13"

GLASS TYPES 9 THROUGH 16 MAY NOT BE USED WITH J-CHANNEL OR INTEGRAL FIN FRAMES

GLASS TYPES 5, 7, 9, 11, 13 & 15 MAY NOT BE USED IN THE HVHZ ABOVE 30'.

TABLE 8:

Window Design Pressure, (+/- psf)													Heavy-Duty Sash, Hinge & Reinforcement	Use this table for Glass Type:	13, 14, 15 & 16	
1/8" A CAP, AIRSPACE, 3/16" A, .090" SG, 3/16" A & 1/8" T CAP, AIRSPACE, 3/16" A, .090" SG, 3/16" A																
3/16" A CAP, AIRSPACE, 3/16" A, .090" SG, 3/16" A & 3/16" T CAP, AIRSPACE, 3/16" A, .090" SG, 3/16" A																
Window Dimensions		Buck Width (in)														
		34.005	34.414	34.834	35.264	35.705	36.157	36.621	37.096	37.584	38.085	38.6	39.129	39.672	40	
Buck Height (in)	71.41	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	
	72	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110		
	73	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110			
	74	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110				
	75	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110					
	76	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110						
	77	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110							
	78	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110		MAX. JAMB O.C. SPACING IF ANCHORING THROUGH THE FRAME PER SHEETS 3 & 4 APPLIES TO B, C OR D ANCHORS (SEE TABLE 2) 10.88"						
	79	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110									
	80	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110										
	81	+70/-110	+70/-110	+70/-110	+70/-110											
	82	+70/-110	+70/-110	+70/-110												
	83	+70/-110	+70/-110													
	84	+70/-110														

NOTES:
1) BUCK DIMENSIONS SHOWN.

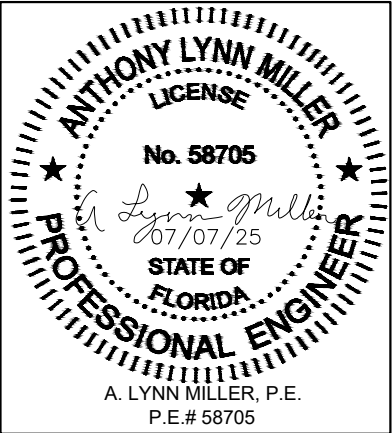
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.

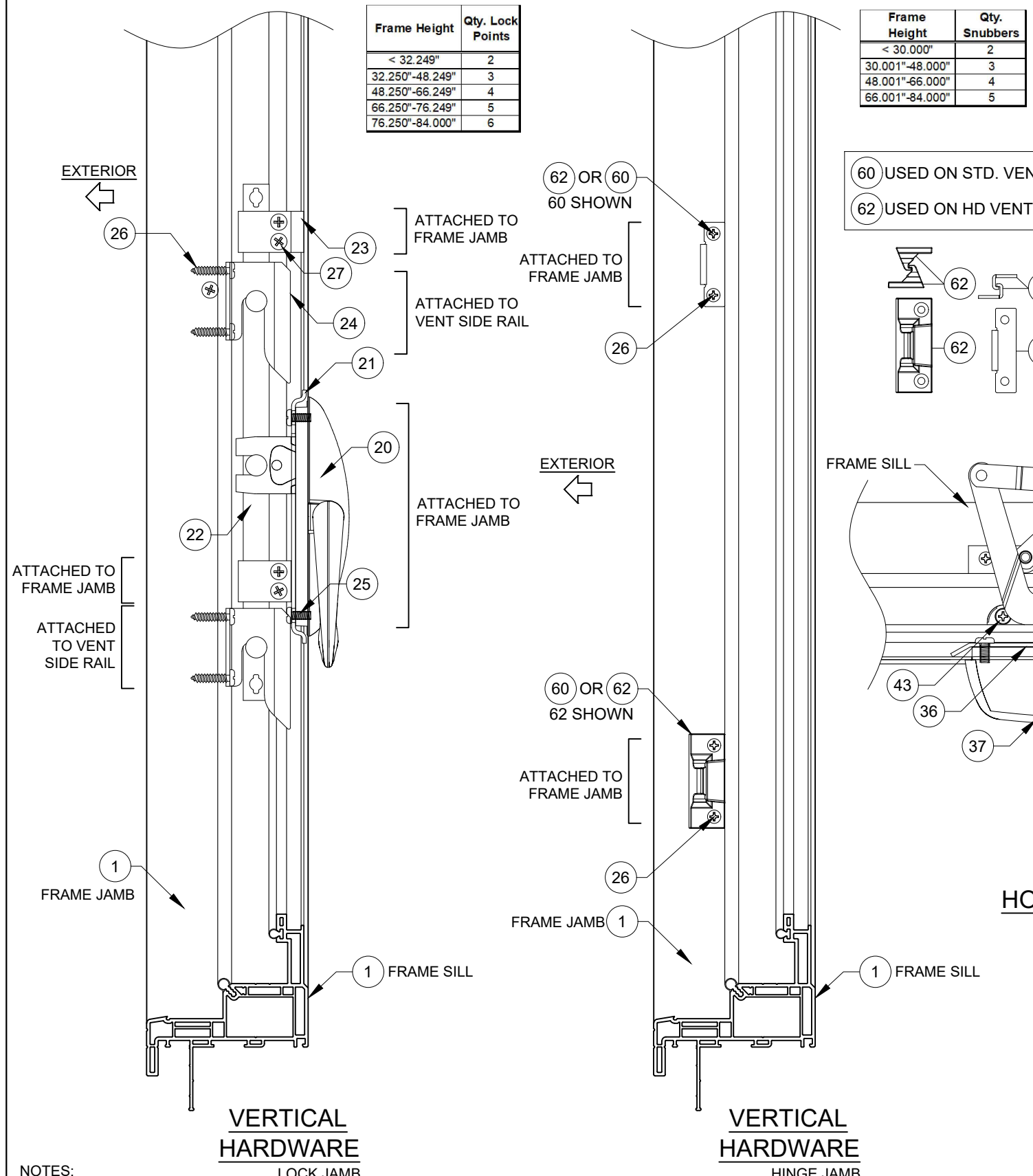
PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 25-0710.01
Expiration Date: 09/17/2030
By: Manuel Perez
Miami-Dade Product Control

Revision:

NO CHANGES IN THIS SHEET.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	09/09/14	A. MORLESIN	Rev.	E			
		By	Drown		MD-5540C.0				
					No.	DWG			
					9 OF 11	Sheet			
 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600	VINYL CASEMENT WINDOW (LM)	ANCHOR QUANTITIES.			CA5540				
		Series			Title				
		Desc.			Anchor Quantities				
		Title			CA5540				

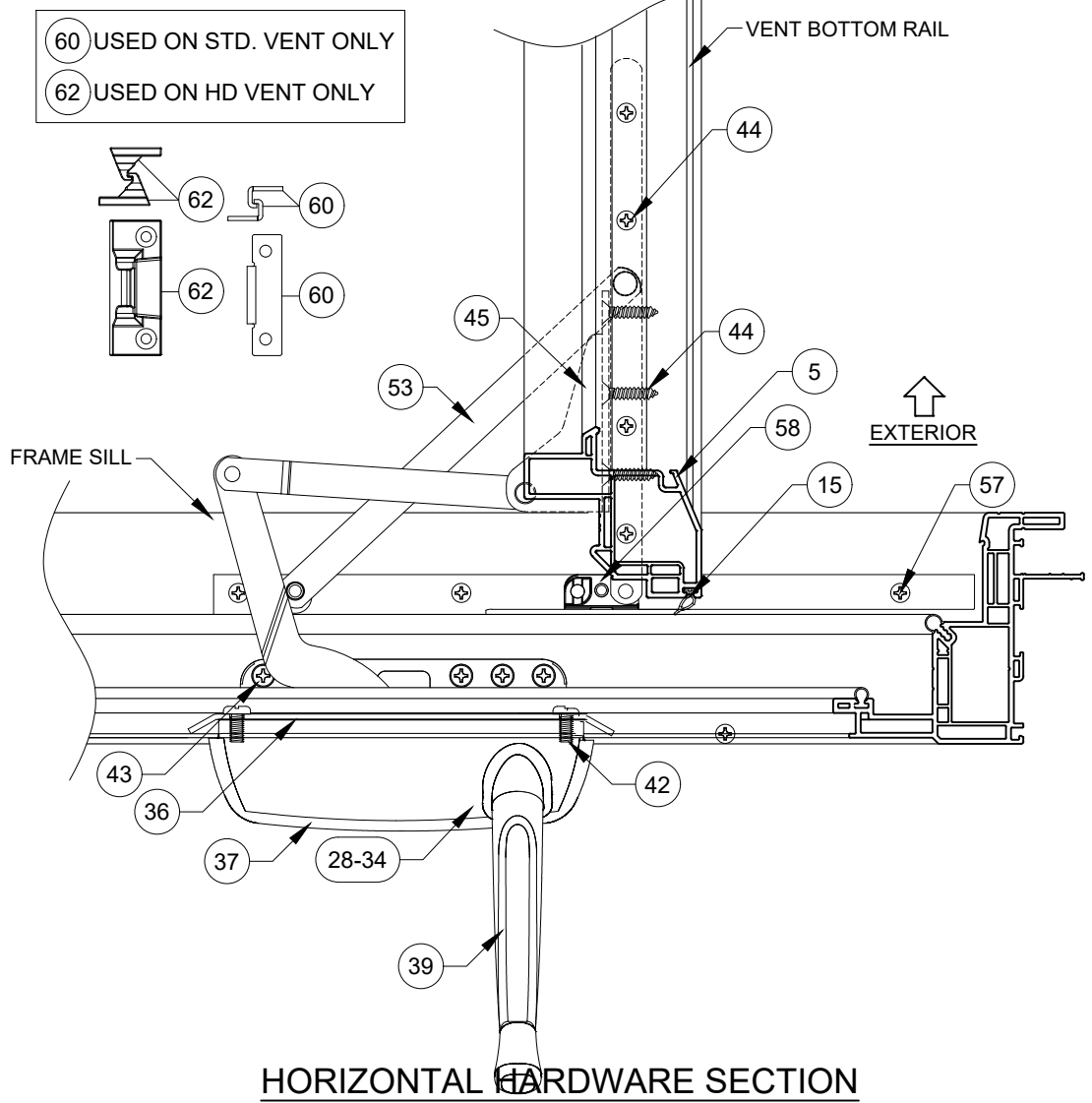




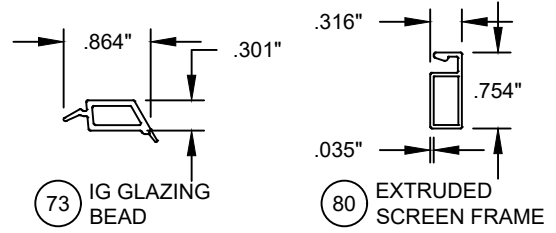
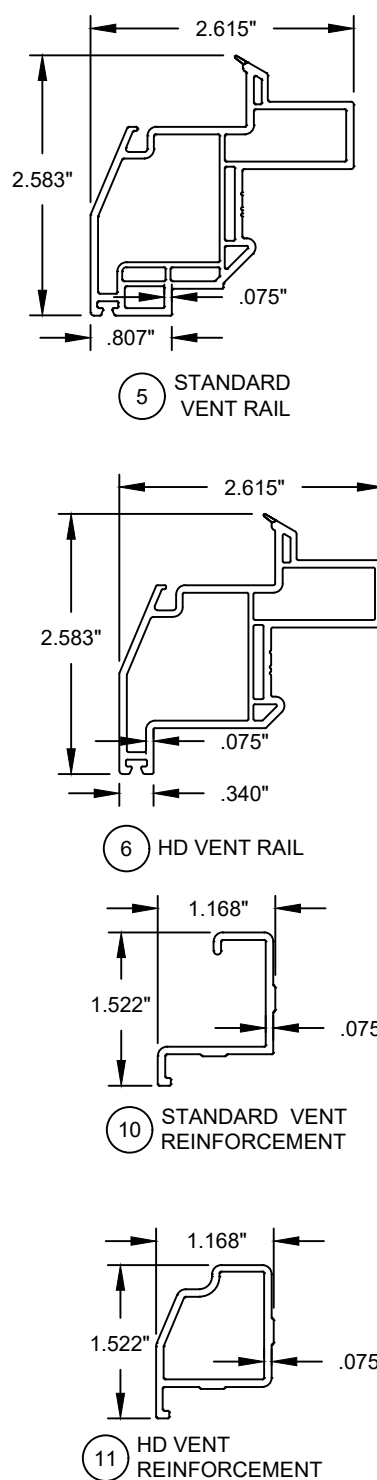
NOTES:

1) SOME PARTS/OPTIONS NOT SHOWN FOR CLARITY.

2) INTEGRAL FIN FRAME SHOWN, PART #1. OTHER FRAME TYPES APPLY.



HORIZONTAL HARDWARE SECTION



PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **25-0710.01**
Expiration Date: **09/17/2030**
By: *Manuel Perez*
Miami-Dade Product Control

Revision: NO CHANGES IN THIS SHEET.

PGT Custom Windows and Doors		3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
		REGISTRATION #29296			
Title	VINYL CASEMENT WINDOW (LM)			Date	09/09/14
EXTRUSION PROFILES:		Drawn By		A. MORLESIN	
Series	CA5540	Sheet	10 OF 11	DWG No.	MD-5540C.0
Desc.				Rev.	E

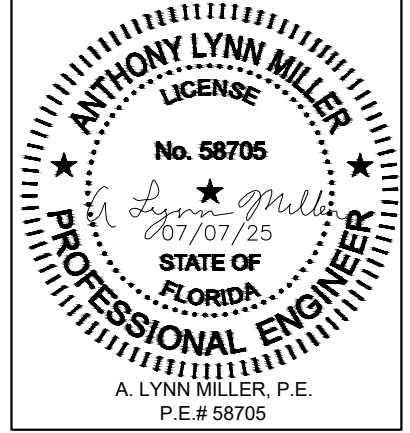
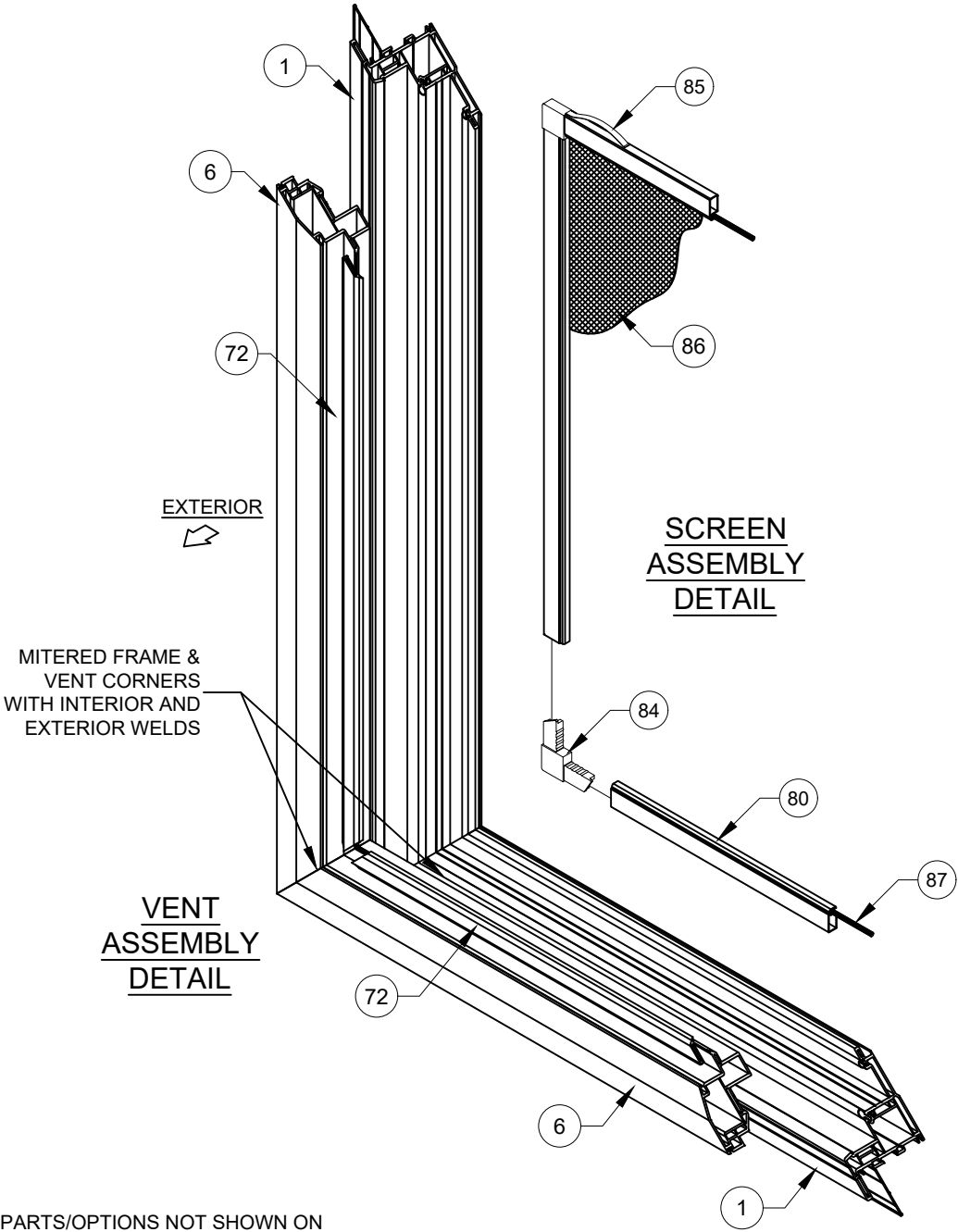


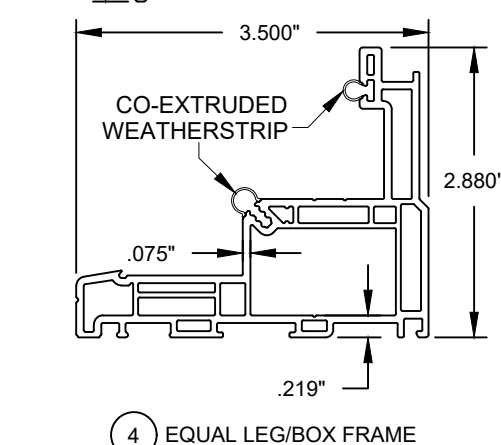
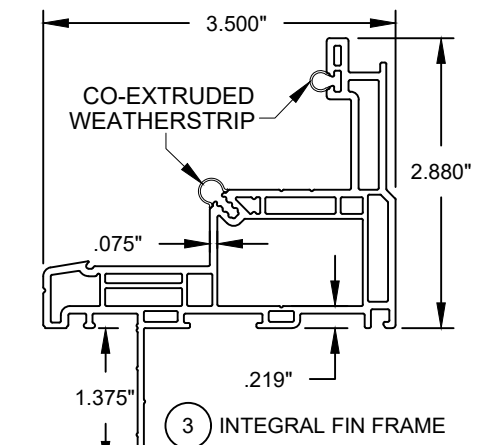
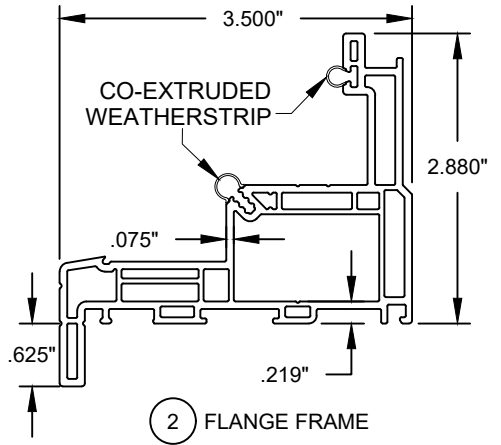
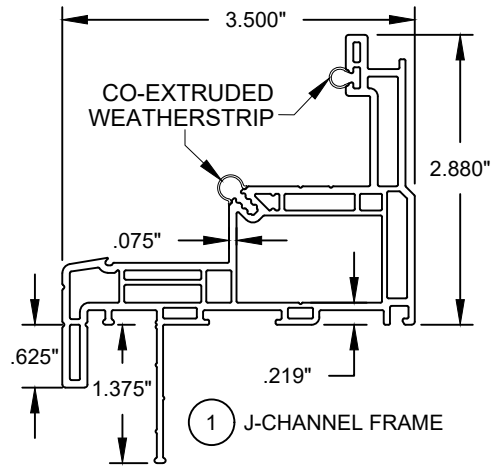
TABLE 8:

#	Part #	Description	Material
1	620125	J-channel Frame	PVC
2	620126	Flange Frame	PVC
3	620127	Integral Fin Frame	PVC
4	620128	Equal Leg/Box Frame	PVC
5	620130	Standard Vent Rail	PVC
6	620173	HD Vent Rail	PVC
10	620163	Standard Vent Reinforcement (Full Length)	Alum. 6005-T5
11	620164	HD Vent Reinforcement (Full Length)	Alum. 6005-T5
15	6TP247	Weatherstrip, 65 +/-1 duro.	Flex PVC
20	7024	Multi-Point Lock	C Steel
21	7011	Multi-Point Lock Flat Support Plate	C Steel
22	varies with size	Tie Bar	C Steel
23	20222	Tie Bar Guide	C Steel
24	7014	Multi-Lock Keeper	C Steel
25	71024X0562PPFX	#10-24 x 9/16" Phl. PH Machine Screw	SS
26	78X34PPTX410	#8 x 3/4" Phl. PH Tek	SS
27	78X112PSAX	#8 x 1-1/2" Phl. FH Tek	SS
28	20249/50	Dyad Operator (narrow vent < or = to 24"), L/R	C Steel
29	20249X/50X	Dyad Operator (narrow vent < or = to 24"), L/R	SS
30	20251/52	Dual Arm Operator (wide vent >24"), L/R	C Steel
31	20251X/52X	Dual Arm Operator (wide vent >24"), L/R	SS
32	7033	Dual Arm Operator Track	SS
33	20241/42	HD Dual Arm Operator, L/R	C Steel
34	20241X/42X	HD Dual Arm Operator, L/R	SS
35	20244	HD Operator Track	SS
36	7031	Operator Backing Plate	C Steel
37	20253	Operator Cover	
38	7030	Operator Gasket White	Neoprene
39		Standard Handle	C Steel
40	7018	Folding Handle	C Steel
41	7019	T-Handle (Thumbtum)	C Steel
42	78X12PPMSX	#8-32 x 1/2" Phl. PH Machine Screw	SS
43	78S34PFAX	#8 x 3/4" Phl. FH	SS
44	78X1PSDX	#8 x 1" Phl. FH Tek	SS
45	7MC7032LH/RH	Stud Bracket, L/R	C Steel
46	7MC7032LH/RHX	Stud Bracket, L/R	SS
47	20243	HD Stud Bracket, non-handed	C Steel
48	20243X	HD Stud Bracket, non-handed	SS
49	73337LH/RH	Egress Hinge, L/R	C Steel
50	73337LH/RHX	Egress Hinge, L/R	SS
51	73338LH/RH	Washable Hinge, L/R	C Steel
52	73338LH/RHX	Washable Hinge, L/R	SS
53	20245/6	HD Washable Hinge, L/R	C Steel
54	20245X/6X	HD Washable Hinge, L/R	SS
55	720247/8	HD Washable Hinge Track, L/R	C Steel
56	720247X/8X	HD Washable Hinge Track, L/R	SS
57	78X34FPAX	#8 x 3/4" Phl. FH w/ #7 Head	SS
58	731877	Operator Slide	Plastic
60	73346	Snubber	C Steel
62	720256	HD Snubber	Die-cast Zinc
63	78X12PPSMSX	#8 x 1/2" Phl. PH	SS
64	20187	Anchor Hole Plug	PVC
73	720136	IG Glazing Bead	PVC
74		Backbedding, GE 7700 or Dow 791 or Dow 983	Silicone
78	71646N	Setting Block (7/8" x 1" x 1/8"), 85 +/- 5 duro.	EPDM
80	67006	Extruded Screen Frame	
84	47040	Screen Corner Key	
85	7CASPm	Tension Spring	
86	61816C34	Screen Cloth	
87	61635/24	.140" Screen Spline (Machine/Hand Rolled)	
90	620160A	Frame Assembly Tube	Alum. 6005-T5
91	620177	Shallow, Flush Cap	PVC
92	620178	Deep, Flush Cap	PVC
93	620132	Frame Assembly Tube End Cap	PVC



NOTES:

- 1) SOME PARTS/OPTIONS NOT SHOWN ON DRAWING FOR CLARITY.
- 2) J-CHANNEL FRAME SHOWN, PART #1. OTHER FRAME TYPES, PARTS #2 - 4, APPLY.
- 3) ITEMS # 7-9, 12-14, 16-19, 59, 61, 65-72, 75-77, 79, 81-83, 88, 89 & 94-99 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.
- 4) VISION PVC TO BE LABELED FOR AAMA EXTRUDER CODE.



PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. 25-0710.01
Expiration Date: 09/17/2030
By: *Manuel Perez*
Miami-Dade Product Control

Revision: NO CHANGES IN THIS SHEET.

IPGT Custom Windows and Doors 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296			09/09/14 Date	
		VINYL CASEMENT WINDOW (LM)				
		BOM, ASSEMBLY & PART LIST				
		By A. MORLESIN				
		DWG No.				
CA5540		11 OF 11		MD-5540C.0		Rev.
Series		Sheet				E

