



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

## NOTICE OF ACCEPTANCE (NOA)

CGI Windows & Doors, LLC  
3780 W. 103<sup>rd</sup> Street  
Hialeah, FL 33018

### 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 "160 Sentinel" Aluminum Outswing Glazed Doors w/wo Sidelites - LMI

**APPROVAL DOCUMENT:** Drawing No. **160 OS FD-LM Rev B** (former **MD-160FD Rev A**), titled "Series Sentinel 160 Alum Outswing Door", sheets 1 thru of 14 of 14, , prepared by manufacture, dated 06/17/20 and last revised on 06/23/25, signed and sealed by Lynn A. 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

#### Limitations:

1. See Design Pressure ratings single and double doors in sheet 3, single sidelite in sheet 4 and door mullion in sheet 5. For mulled units lower design of door or sidelite or mullion shall apply to the entire assembly.
2. See glazing options in sheets 1 and 2 and locking hardware options in sheet 10.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", 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** # **23-0717.02** and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4, E-5 & E-6, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections (submitted under files below)
2. Drawing No. **W13-01 Rev D**, titled "Series 160 Sentinel Outswing Doors", sheets 1 thru 11 of 11, inclusive sheet 9.1, prepared by Al-Farooq Corporation, dated 01-03-13 and last revised on AUG 05, 2015, signed and sealed by Javad Ahmad, P.E.

**B. TESTS (submitted under file #13-0226.06)**

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(+50.0 PSF, sill S-I only)
  - 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 FBC 2411 3.2.1, TAS 202-94

Along with manufacturer's parts and section drawing marked-up drawings of aluminum out w/ sidelites, by American test Lab of South Florida, Inc., Test Report No. **ATLSF-1218.01-12** dated 02/11/2013, signed and sealed by Henry Hatem, P.E.

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 manufacturer's parts and section drawing marked-up drawings of aluminum sidelites, issued by Certified Testing Lab., Test Report No. **CTLA 3056WC** (sample #3) dated 04/16/2015, signed and sealed by Ramesh Patel, P.E.

**C. CALCULATIONS**


1. Anchor verification calculations and structural analysis, complying with FBC-2014 (**5<sup>th</sup> Edition**), prepared by Al Farooq Corporation, dated 10/06/2014, 05/19/15 and last revised on AUG 04, 2015, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies w/ ASTM E-1300-02, -04 and -2009.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **11-0624.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass ® Interlayer**", expiring on 01/14/17.
2. Notice of Acceptance No. **12-1231.10** issued to Eastman Chemical Company (MA) former Solutia Inc. for "Saflex clear & color glass interlayer", expiring on 05/21/16.
3. Notice of Acceptance No. **12-1231.08** issued to Eastman Chemical Company (MA) former Solutia Inc. for "Saflex CP-Saflex & Saflex HP composite interlayer w/ PET core", expiring on 12/11/18.



**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No 25-0701.06**  
**Expiration Date: August 08, 2028**  
**Approval Date: July 31, 2025**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2014 (5<sup>th</sup> Edition) and letter of no financial interest, prepared by Al Farooq Corporation, dated 09/23/14, signed and sealed by Javad Ahmad, P.E.
2. Lab compliance and addendum letters, as part of the above referenced test reports.

**G. OTHER**

1. This file NOA revises # **13-0226.06**, expiring 08/08/18.
2. Test proposals approved dated 12/16/14 & **12-0553**, dated 04/25/12 approved by RER.

**2. EVIDENCE SUBMITTED UNDER PREVIOUS NOA(s)**

**A. DRAWINGS**

1. Drawing No. **W13-01 Rev F**, titled "Series Sentinel 160 Alum Outswing Door (L.M.I./S.M.I.)", sheets 1 thru of 13 of 13, inclusive sheet 1.1, prepared by Al-Farooq Corporation, dated 01/03/13 and last revised on 02/13/18, signed and sealed by Javad Ahmad, P.E.

**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

Along with manufacturer's parts and section drawing marked-up drawings of aluminum out w/ sidelites, by Fenestration Testing Laboratory, Inc., Test Report No. **FTL 17102** dated 05/19/17, signed and sealed by Idalmis Ortega, P.E.

**C. CALCULATIONS**


1. Anchor verification calculations and structural analysis, complying with **FBC 6<sup>th</sup> Edition (2017)**, prepared by Al Farooq Corporation, dated 11/13/17, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies w/ ASTM E-1300-09.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **17-0808.02** issued to Kuraray America., Inc. for their "**Sentry Glas® (Clear and White) Interlayer**", expiring on 07/04/23.
2. Notice of Acceptance No. **17-0712.05** issued to Eastman Chemical Company (MA) for their "**Saflex Clear & Color glass Interlayers**", expiring on 05/21/21.

  
\_\_\_\_\_  
**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No 25-0701.06**  
**Expiration Date: August 08, 2028**  
**Approval Date: July 31, 2025**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**E. MATERIAL CERTIFICATIONS (continue)**

3. Notice of Acceptance No. **17-0712.03** issued to Eastman Chemical Company (MA) for their “**Saflex CP-Saflex & Saflex HP Composite Glass Interlayers w/ PET Core**“, expiring on 12/11/18.
4. Notice of Acceptance No. **17-1114.14** issued to Kuraray America., Inc. for their “**Trosifol® Ultraclear, Clear, and Color PVB Glass Interlayers**”, expiring on 07/08/19.

**F. STATEMENTS**

1. Statement letter of conformance to **FBC 6<sup>th</sup> Edition (2017)** and of no financial interest prepared by Al Farooq Corporation, dated 11/13/17, signed and sealed by Javad Ahmad, P.E.

**G. OTHER**

1. This NOA revises NOA #14-1015.04, expiring on 08/08/18.
2. Test proposal **#16-0947**, dated 07/26/16, approved by RER.

**3. Evidence submitted under previous approval**

**A. DRAWINGS**

1. Drawing No. **MD-160FD Rev A** (former **W13-01 Rev F**), titled “Series Sentinel 160 Alum Outswing Door”, sheets 1 thru of 14 of 14, , prepared by manufacture, dated 07/14/20, signed and sealed by Lynn A. Miller, P.E.

**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

along with marked-up drawings and installation diagram of all CGI Windows and Doors, Inc. and PGT Industries, Inc., representative units listed below and tested to qualify **Dowsil 791** and **Dowsil 983** silicones, per Proposal **#19-1155TP**, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.:

**CGI Windows and Doors Inc. test specimens:**

**FTL-20-2108.1**, CGI SH360 Aluminum Single Hung Window (unit 1 in proposal) **FTL-20-2108.2**, CGI CA238 Alum. Outswing Casement Window (unit 2 in proposal) **FTL-20-2108.3**, CGI SGD560 Aluminum Sliding Glass Door (unit 3 in proposal) **FTL-20-2108.4**, CGI PW410 Aluminum Fixed Window (unit 4 in proposal) and **FTL-20-2108.5**, CGI SH360 Aluminum Single Hung Window (unit 5 in proposal) all dated 08/24/20 and signed and sealed by Idalmis Ortega, P.E.



Ishaq I. Chanda, P.E.

Product Control Unit Supervisor

NOA No 25-0701.06

Expiration Date: August 08, 2028

Approval Date: July 31, 2025

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**B. TESTS (continue):**

**PGT Industries, Inc. test specimens:**

**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) all dated 07/13/20 and signed and sealed by Idalmis  
Ortega, P.E.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC 2020, 7<sup>th</sup> Edition**, prepared by manufacturer, dated 07/14/20, signed and sealed by A. Lynn Miller, P. E.
2. Glazing complies with ASTM E1300-04, -09, -12 and -16.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

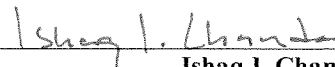
1. Notice of Acceptance No. **17-0808.02** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for the “**Sentry Glass ® Interlayer**”, expiring on 07/4/23.
2. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** (Former E.I. DuPont DE Nemours & Co., Inc. for the “Kuraray Trofossil Ultra clear and color PVB Interlayer (Former Kuraray **Butacite ® PVB interlayer**)”, expiring on 07/08/24.
3. Notice of Acceptance No. **18-0301.06** issued to Eastman Chemical Company (MA) (Former Solutia, Inc.) for the “**Saflex CP - Saflex and Saflex HP Composite Glass Interlayers w/ PET Core**”, expiring on 12/11/23.

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2020 (7<sup>th</sup> Edition), issued by manufacturer, dated 07/14/20, signed and sealed by Lynn Miller, P. E.
2. Notification of Successor Engineer per the Florida Administrative Code Section 61G15-27.001, notifying original engineer that the successor engineer is assuming full professional and legal responsibility for all engineering documents pertaining to this NOA, dated 07/20/20, signed and sealed by A. Lynn Miller, P.E.

**G. OTHER**

1. This NOA **revises 17-1226.05** expiring 08/08/23 for FBC 2020 updates.
2. RER Test proposals **#19-1155** dated 01/10/20 approved by Ishaq I. Chanda, P.E.



Ishaq I. Chanda, P.E.

Product Control Unit Supervisor

NOA No 25-0701.06

Expiration Date: August 08, 2028

Approval Date: July 31, 2025

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**4. Evidence submitted under previous approval**

**A. DRAWINGS**

1. Drawing No. **160 OS FD-LM Rev B** (former **MD-160FD Rev A**, titled "Series Sentinel 160 Alum Outswing Door", sheets 1 thru of 14 of 14, prepared by manufacture, dated 07/14/20 and last revised on 07/09/23, signed and sealed by Lynn A. Miller, P.E.

**B. TESTS (submitted under previous approval)**

1. None.

**C. CALCULATIONS (submitted under previous approval)**

1. None.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**


1. Notice of Acceptance No. **22-1116.01** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/04/28.
2. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** (Former E.I. DuPont DE Nemours & Co., Inc. for the "Kuraray Trofosil Ultra clear and color PVB Interlayer (Former Kuraray **Butacite ® PVB interlayer**)", expiring on 07/08/24.
3. Notice of Acceptance No. **22-1130.06** issued to Eastman Chemical Company (MA) (Former Solutia, Inc.) for the "**Saflex CP - Saflex and Saflex HP Composite Glass Interlayers w/ PET Core**", expiring on 12/11/28.

**G. STATEMENTS**

1. Statement letter of conformance to FBC 2023 (8<sup>th</sup> Edition) and FBC 2020 (7<sup>th</sup> edition), issued by manufacturer, dated 07/10/23, signed and sealed by Lynn Miller, P. E.
2. Statement letter of conformance to FBC 2020 (7<sup>th</sup> Edition), issued by manufacturer, dated 07/14/20, signed and sealed by Lynn Miller, P. E. (submitted under previous approval).

**G. OTHER**

1. This NOA **revises & renews 20-0722.16** expiring 08/08/28 consists of FBC 2023 updates.



Ishaq I. Chanda, P.E.

Product Control Unit Supervisor

NOA No 25-0701.06

Expiration Date: August 08, 2028

Approval Date: July 31, 2025

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**5. New Evidence submitted**

**A. DRAWINGS**

1. Drawing No. **160 OS FD-LM Rev B** (former **MD-160FD Rev A**), titled "Series Sentinel 160 Alum Outswing Door", sheets 1 thru of 14 of 14, prepared by manufacture, dated 06/17/20 and last revised on 06/23/25, signed and sealed by Lynn A. Miller, P.E.

Note: This revision is for name change and FBC 2023 (8<sup>th</sup> edition) updates.

**B. TESTS** (submitted under previous approval)

1. None.

**C. CALCULATIONS** (submitted under previous approval)

1. None.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **22-1116.01** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/04/28.
2. Notice of Acceptance No. **24-0205.08** issued to **Kuraray America, Inc.** (Former E.I. DuPont DE Nemours & Co., Inc. for the "Kuraray Trofossil Ultra clear and color PVB Interlayer (Former Kuraray **Butacite ® PVB interlayer**)", expiring on 07/08/29.
3. Notice of Acceptance No. **22-1130.06** issued to Eastman Chemical Company (MA) (Former Solutia, Inc.) for the "**Saflex CP - Saflex and Saflex HP Composite Glass Interlayers w/ PET Core**", expiring on 12/11/28.

**F. STATEMENTS**

1. Statement letter dated 06/23/25 issued by manufacturer requesting FBC revision with company name change to CGI Windows and Doors, LLC, signed and sealed by Anthony Lynn Miller, P.E
2. Statement letter of conformance to FBC 2023 (8<sup>th</sup> Edition), issued by manufacturer, dated 06/23/25, signed and sealed by Lynn Miller, P. E.

**G. OTHER** (Items #2 thru #5 have been submitted in the previous file)

1. This NOA **revises 23-0717.02** expiring 08/08/28.
2. Certificate of conversion dated March 28, 2024, issued by the State of Delaware, CGI windows and Doors, LLC formation from CGI windows and Doors, Inc. signed by Mathew D. Sotto.
3. Florida Department of State, Division of Corporation listing # M240000058609 of CGI Windows and Doors, LLC as active status since 07/08/24.
4. Florida Department of State, Division of Corporation listing # F03387 of PGT Industries, Inc as Inactive status, from 07/08/24.
5. CGI Name change organization chart layout prepared by RER (for file use only).



Ishaq I. Chanda, P.E.

Product Control Unit Supervisor

NOA No 25-0701.06

Expiration Date: August 08, 2028

Approval Date: July 31, 2025

SERIES SENTINEL 160 ALUMINUM OUTSWING DOOR WITH SIDELITES

APPROVAL APPLIES TO SINGLE (X) AND DOUBLE (XX) LEAF DOORS WITH OR WITHOUT SIDELITES. SIDELITES CAN BE ON ONE OR BOTH SIDES OF DOOR.

DOORS WITH STANDARD THRESHOLD APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED. DOORS WITH SADDLE (ADA) THRESHOLD NOT APPROVED FOR WATER INFILTRATION RESISTANCE.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

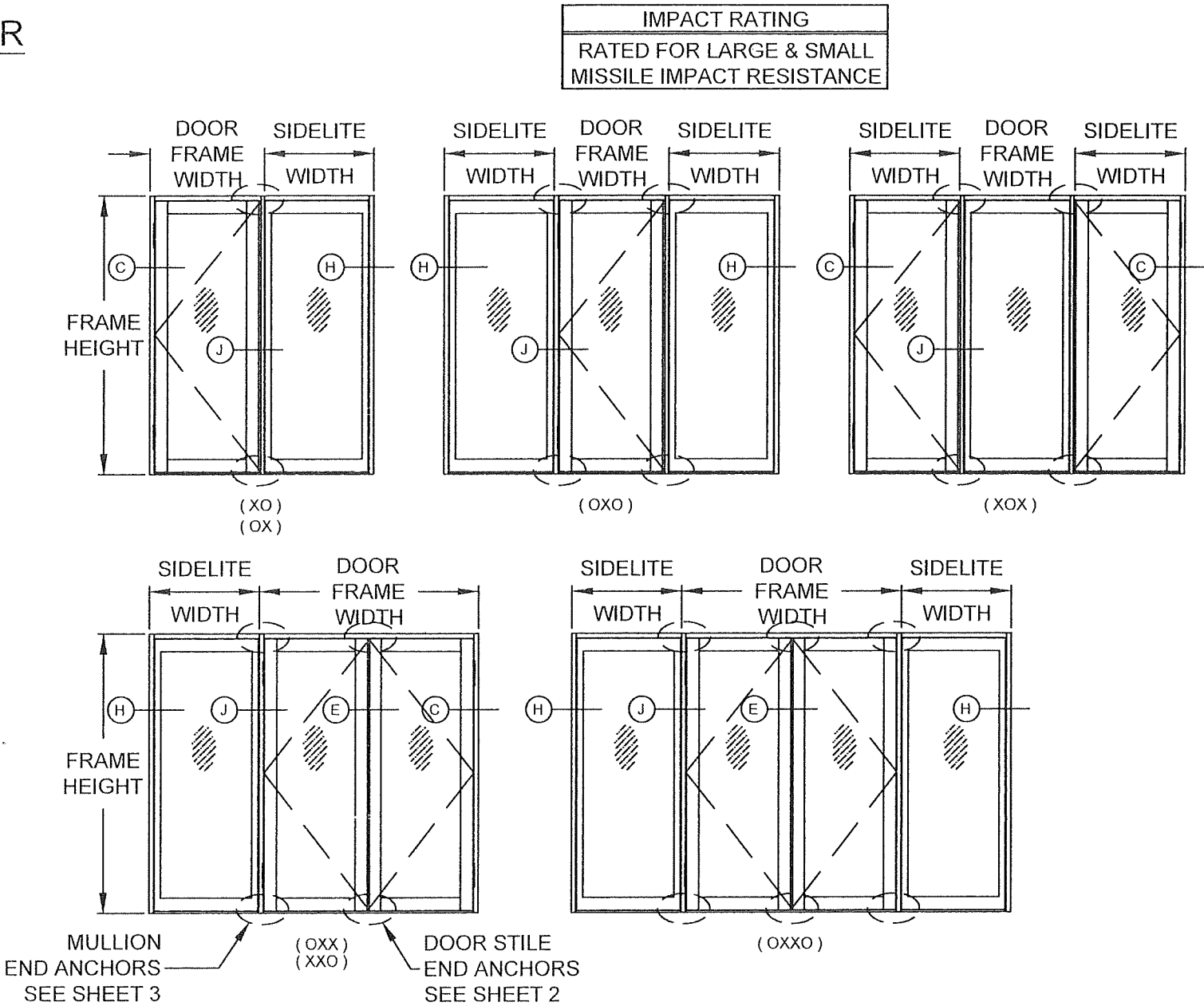
INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1
- DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2
- FOR SINGLE (X) AND DOUBLE (XX) DOOR CAPACITIES SEE SHEET 4
- STEP 3
- FOR SIDELITE PANEL (O) CAPACITY SEE SHEET 4.
- STEP 4
- FOR SIDELITE COMBINATION WITH DOOR SEE MULLION CAPACITY CHART ON SHEET 4.
- STEP 5
- THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

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

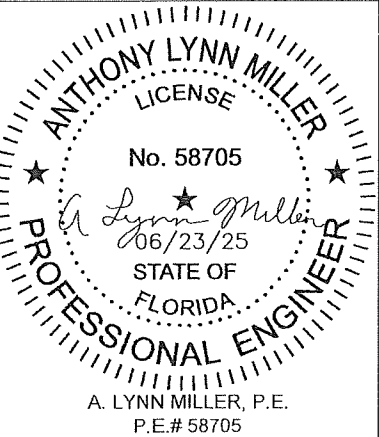


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PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 25-0701-06  
Expiration Date 8/8/2028  
By *Anthony Lynn Miller*  
Miami Dade Product Control

ERASED 2020 FBC  
REFERENCE - AM1/6/25

 Impact Resistant Windows & Doors		3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590		REGISTRATION #29296		6/17/20		
SENTINEL 160 OUTSWING DOOR								
160 OS FD		1 OF 14		DWG No.		160 OS FD -LM		Rev
Series		Sheet		A. MORLESIN				
Desc.		Notes & Configuration		Drawn By		Date		

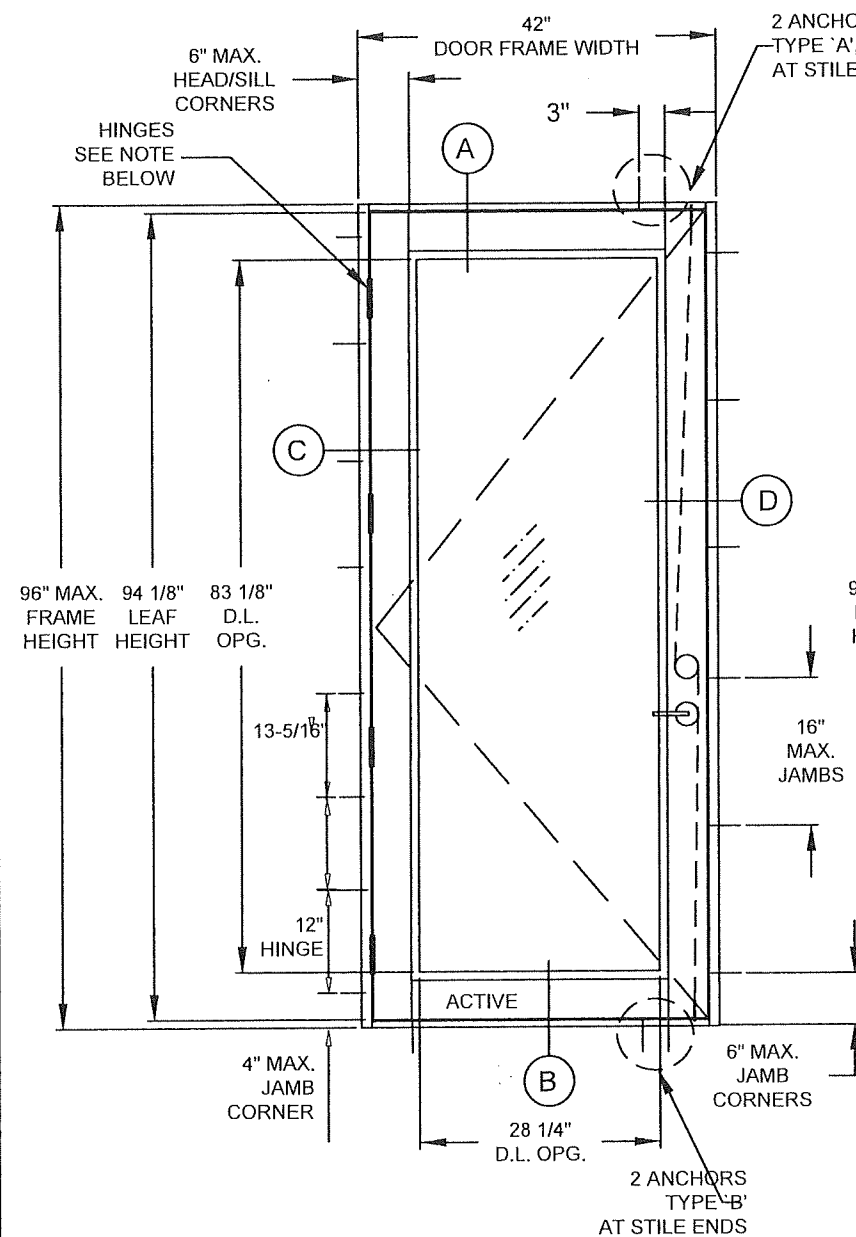




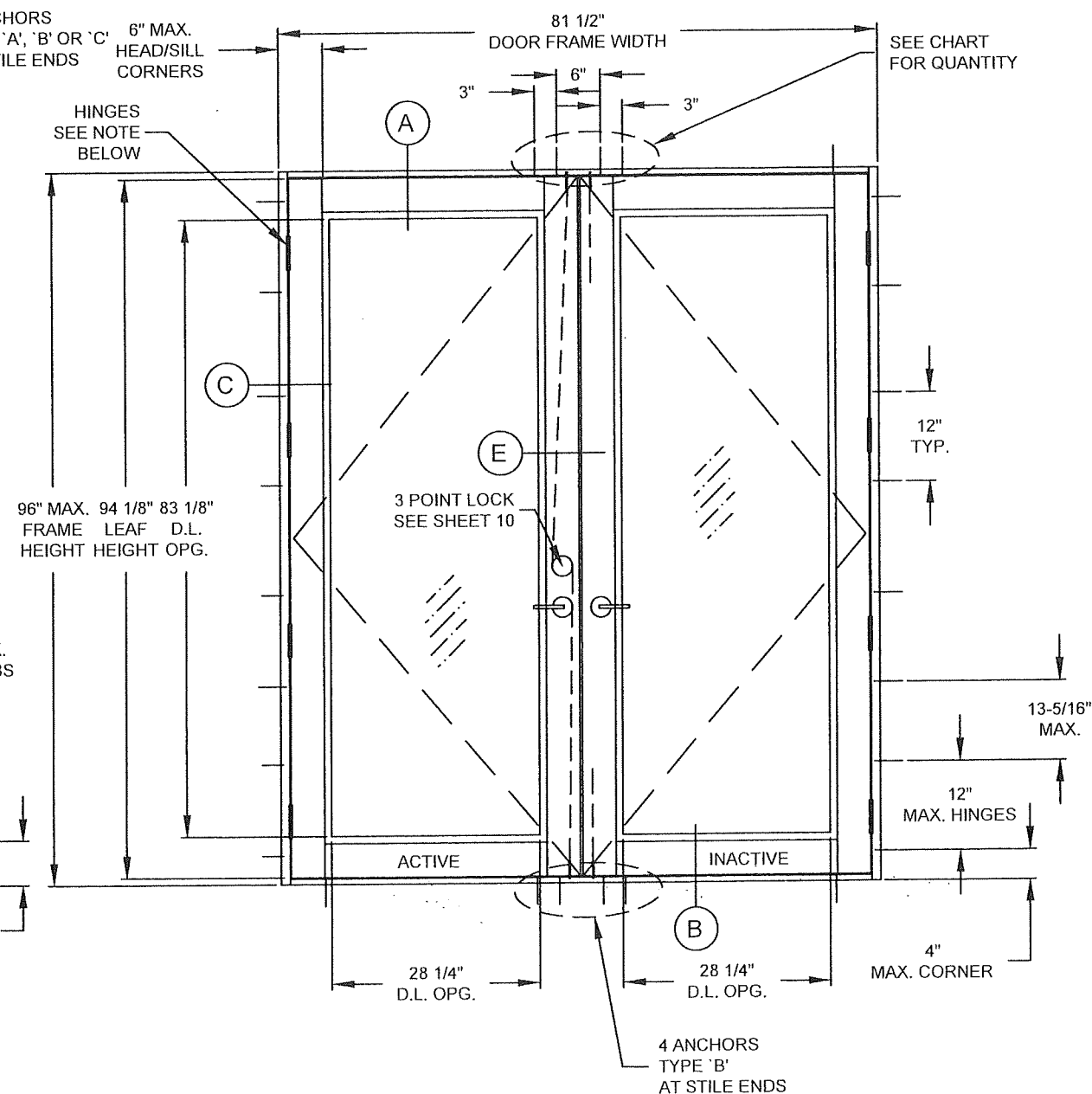
## DOOR OPTIONS

Revision:	NO CHANGES TO THIS SHEET
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TYPICAL ELEVATION  
( X )



TYPICAL ELEVATION  
( XX )



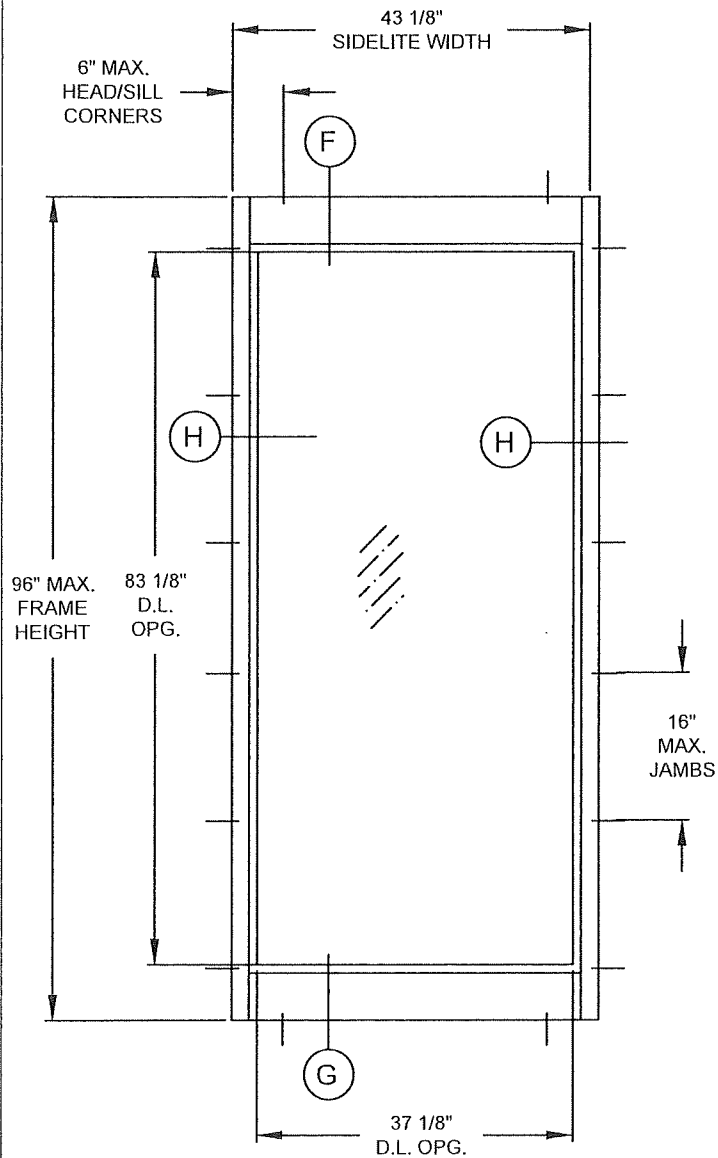
SINGLE OR DOUBLE DOORS  
WITH SADDLE (ADA) SILL

HEAD ANCHORS AT STILE ENDS			
QUANTITY CHART			
	ANCHOR TYPE		
SHIM	A'	B'	C'
1/4"	4	4	4
3/8"	6	6	6
1/2"	7	7	-

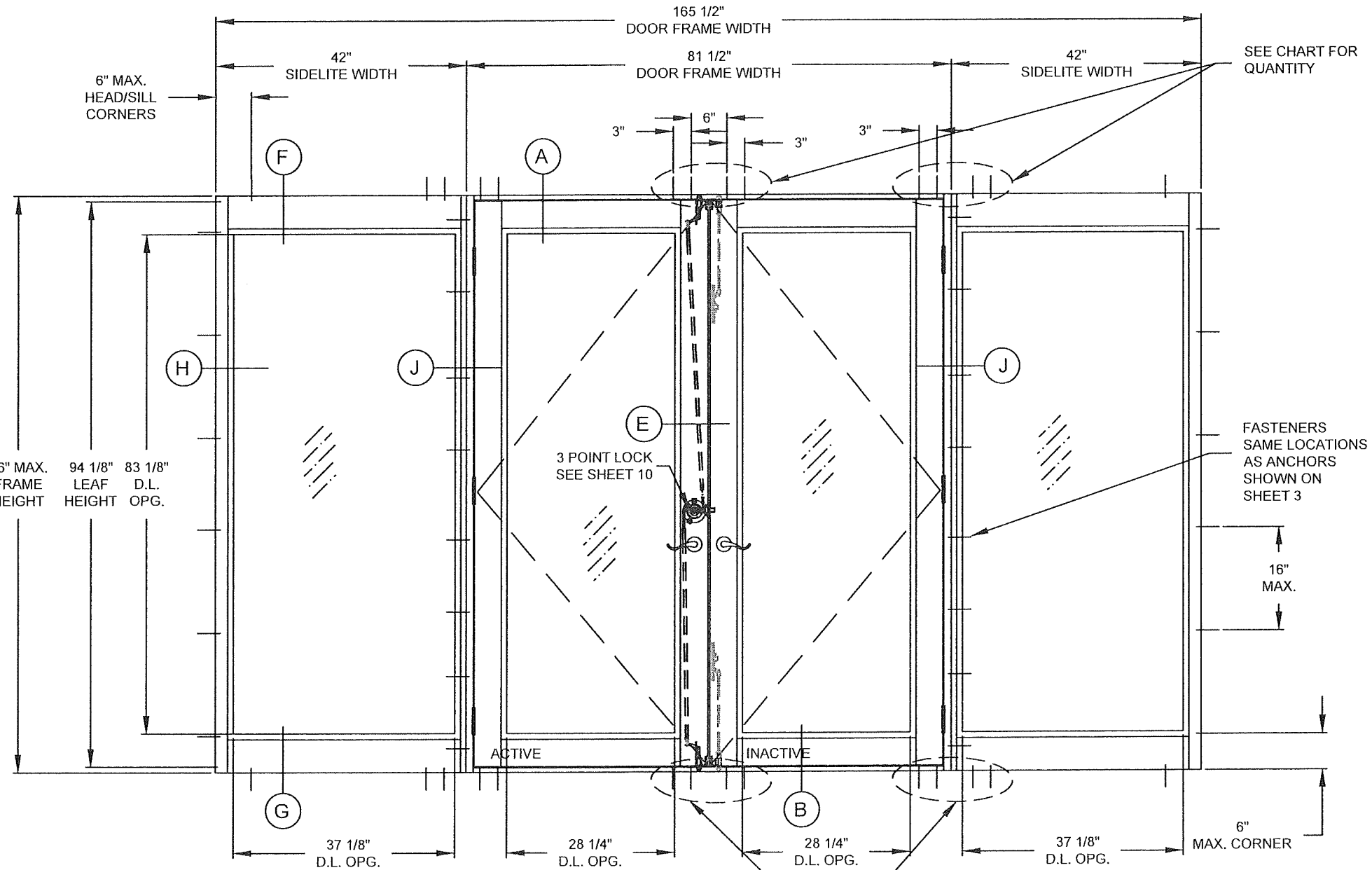
HINGES:  
4" X 4-1/2" BUTT HINGES  
TOP AND BOTTOM HINGES AT 6-7/8" FROM EACH END  
INTERMEDIATE HINGES EQUALLY SPACED  
(3) HINGES PER LEAD UP TO 35" LEAD WIDTHS (STD. THRESHOLD ONLY)  
(4) HINGES PER LEAD ABOVE 35" LEAD WIDTHS (STD. THRESHOLD)  
(4) HINGES PER LEAD ALL WIDTHS (SADDLE THRESHOLD)

SIDELITE OPTIONS

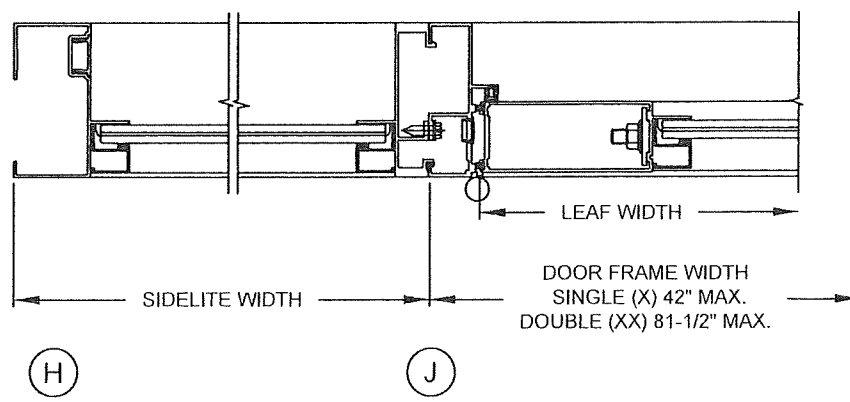
TYPICAL ELEVATION  
( O )



TYPICAL ELEVATION  
( OXXO )



SIDELITE TO DOOR



HEAD ANCHORS AT STILE ENDS QUANTITY CHART			
ANCHOR TYPE			
SHIM	A'	B'	C'
1/4"	4	4	4
3/8"	6	6	6
1/2"	7	7	-

NOTE:  
FOR DOOR CAPACITIES SEE SHEET 4.  
FOR SIDELITE CAPACITIES SEE SHEET 4.  
FOR SIDELITE MULLION CAPACITY SEE SHEET 4.  
LOWER VALUES FROM DOORS, SIDELITE, DOOR/SIDELITE  
OR MULLION CHART WILL APPLY TO ENTIRE SYSTEM.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 25-0701.06  
Expiration Date 8/8/2028  
By *[Signature]*  
Miami Dade Product Control

Revision:  
NO CHANGES TO  
THIS SHEET

<b>Impact Resistant Windows &amp; Doors</b> 	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	Date	6/17/20	Rev.	B
		By	A. MORLESIN	DWG/	160 OS FD -LM
		Title	SIDELITE ELEVATION	3 OF 14	
		Desc.	SENTINEL 160 OUTSWING DOOR	Sheet	160 OS FD

ANTHONY LYNN MILLER  
LICENSE  
No. 58705  
06/23/25  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER  
A. LYNN MILLER, P.E.  
P.E.# 58705

DESIGN PRESSURE (DP)																	
Use this table for:  SIDELITES or STAND ALONE STATIONARY PANEL (O)			Frame Height														
			84"					90"					96"				
			GLASS TYPES					GLASS TYPES					GLASS TYPES				
			A	B	C1	C2	C3	A	B	C1	C2	C3	A	B	C1	C2	C3
PANEL WIDTH	30"	DESIGN PRESSURE	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	33"	DESIGN PRESSURE	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	36"	DESIGN PRESSURE	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	37-1/8"	DESIGN PRESSURE	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	39"	DESIGN PRESSURE	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	-	-	-	+/-70	+/-80
	42"	DESIGN PRESSURE	+/-80	+/-80	+/-80	+/-80	+/-80	-	-	-	+/-70	+/-80	-	-	-	+/-70	+/-80

SIDELITE D.L.O. DIMS.

D.L.O. HEIGHT = FRAME HEIGHT - 12.875"  
D.L.O. WIDTH = SIDELITE WIDTH - 6" STAND ALONE SIDELITE ONLY  
D.L.O. WIDTH = SIDELITE WIDTH - 4.875 SIDELITE TO DOOR ONLY

DESIGN PRESSURE (DP)											
Use this table for:  SINGLE (X) OR DOUBLE (XX) FOR ALL GLASS TYPES				FRAME HEIGHT							
				96"							
				THRESHOLD TYPES		LOCK SETS			INSUL. GLASS SPACERS		
WIDTH	(X)	(XX)		STD.	ADA	SCH	CC	BLDW	CLX	KOD	QUAN
	37-1/4"	72"	DESIGN PRESSURE	+/-80	+/-70	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	42"	81-1/2"	DESIGN PRESSURE	+/-80	+/-70	+/-80	+/-80	+/-70	+/-70	+/-80	-

DOOR D.L.O. DIMS.

D.L.O. HEIGHT = FRAME HEIGHT - 12.875"  
D.L.O. WIDTH (X DOORS) = FRAME WIDTH - 13.75"  
D.L.O. WIDTH (XX DOORS) = (FRAME WIDTH - 25)/2

LOCK SETS:

SCH = SCHLAGE  
CC = COPPER CREEK  
BLDW = BALDWIN

GLASS SPACERS:

CXL = CARDINAL XL  
KOD = KODISPACE  
QUAN = QUANEX DURASEAL , QUANEX SUPERSPACER

GLASS SPACER LIMITATIONS FOR SIDELITES  
WIDER THAN 37-1/8" ONLY, 90" & 96" HEIGHTS

FOR GLASS TYPES 'C2' & 'C3'  
QUANEX DURASEAL  
& SUPERSPACER NOT ALLOWED

FOR GLASS TYPE 'C3'  
CARDINAL XL (LIMIT MAX. LOADS TO ±70.0 PSF)

DESIGN PRESSURE (DP)					
Use this table for:  SIDELITES TO DOOR MULLION  MAX. DOOR LEAF WIDTH OF 39-3/4"		FRAME HEIGHT			
		84"	90"	96"	
		SIDELITE TO DOOR MULLION	SIDELITE TO DOOR MULLION	SIDELITE TO DOOR MULLION	
SIDELITE WIDTH	24"	DESIGN PRESSURE	+/-80	+/-80	+/-80
	30"	DESIGN PRESSURE	+/-80	+/-80	+/-80
	33"	DESIGN PRESSURE	+/-80	+/-80	+/-80
	36"	DESIGN PRESSURE	+/-80	+/-80	+/-78.0
	37-1/8"	DESIGN PRESSURE	+/-80	+/-80	+/-77.1
	39"	DESIGN PRESSURE	+/-80	+/-80	+/-75.1
	42"	DESIGN PRESSURE	+/-80	+/-80	+/-72.3

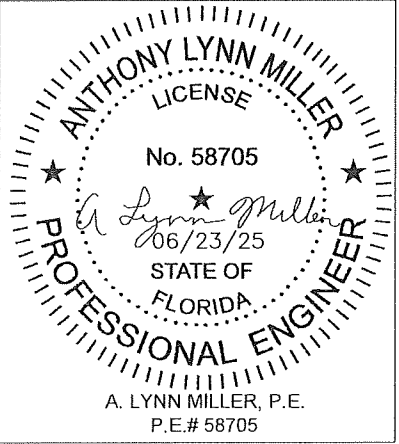
NOTE:  
THE FRAME AREA OF ALTERNATE SIZE MUST NOT  
EXCEED TESTED FRAME AREA - 100.3 SQ. FT.

NOTE:  
VERIFY COMPLIANCE WITH EGRESS LIMITATIONS WHERE REQUIRED.

NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-09 (3 SEC. GUSTS)

NOTE:  
FLUSH BOLTS AND LOCKS MUST BE  
ENGAGED TO HEAD AND SILL DURING  
PERIODS OF HURRICANE WARNING.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275  (941) 480-1600	REGISTRATION #29296	6/17/20	A. MORLESIN	Rev.	B
				Date	
				By	160 OS FD -LM
				Drawn	
Impact Resistant Windows & Doors  3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590	SENTINEL 160 OUTSWING DOOR	DP TABLES	160 OS FD	Sheet	4 OF 14
				Desc.	
				Title	
				Series	

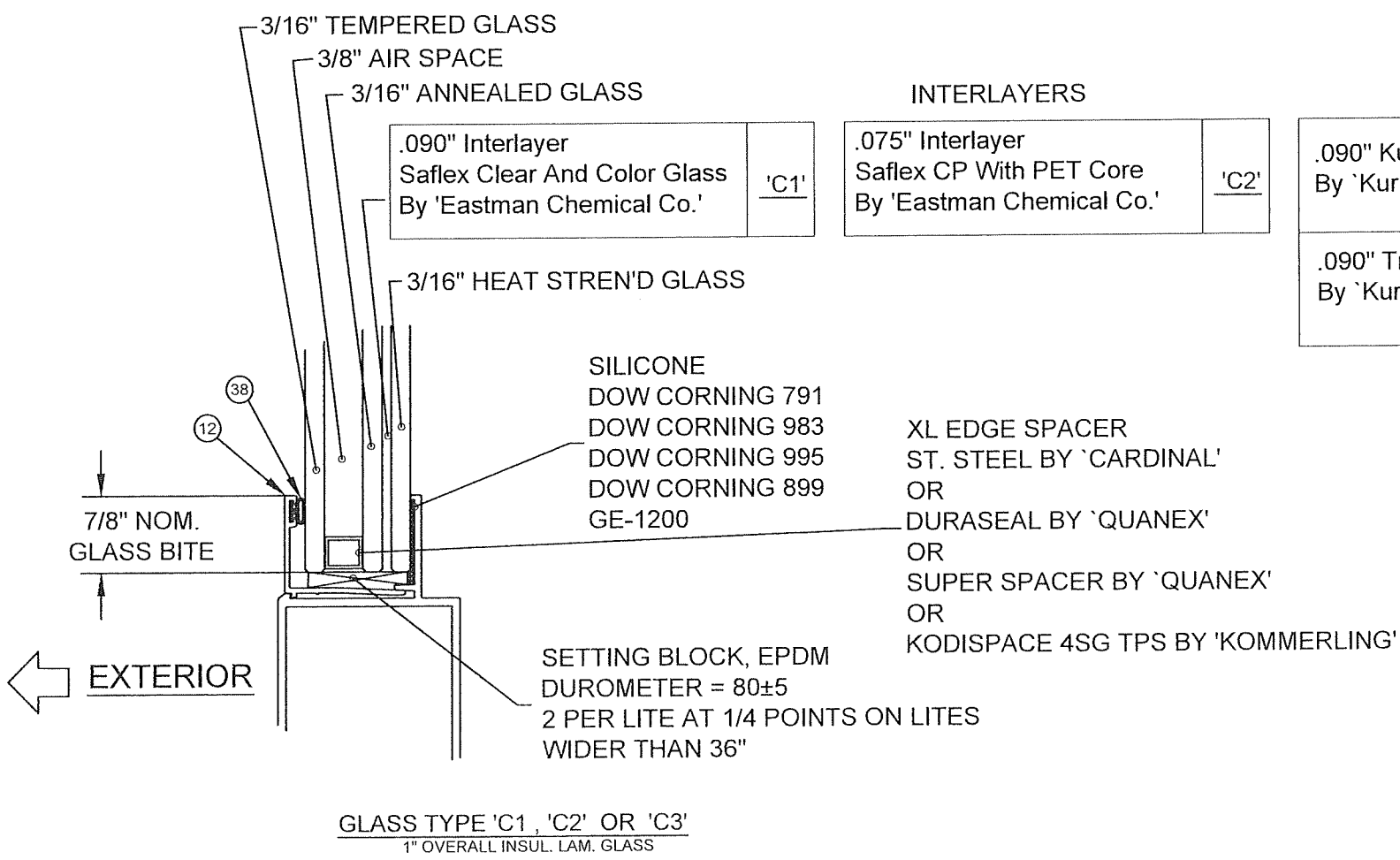
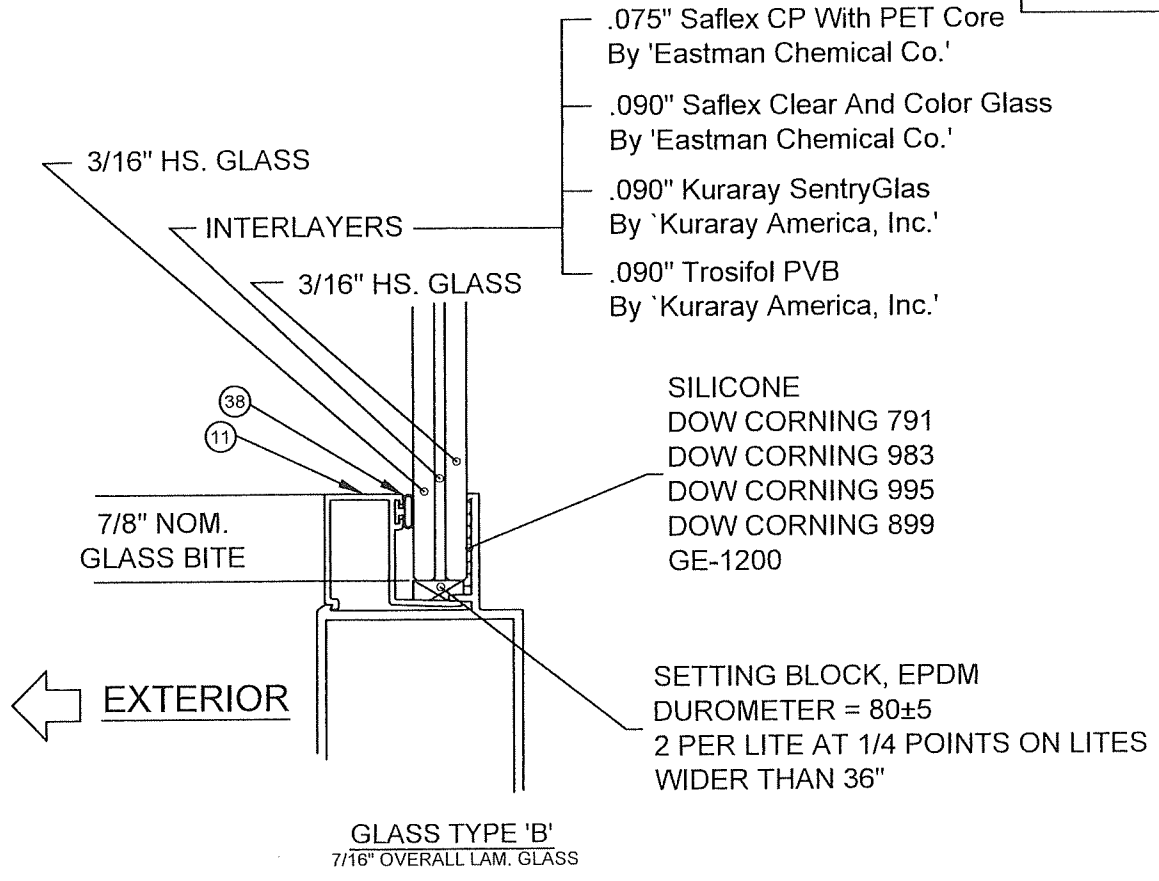
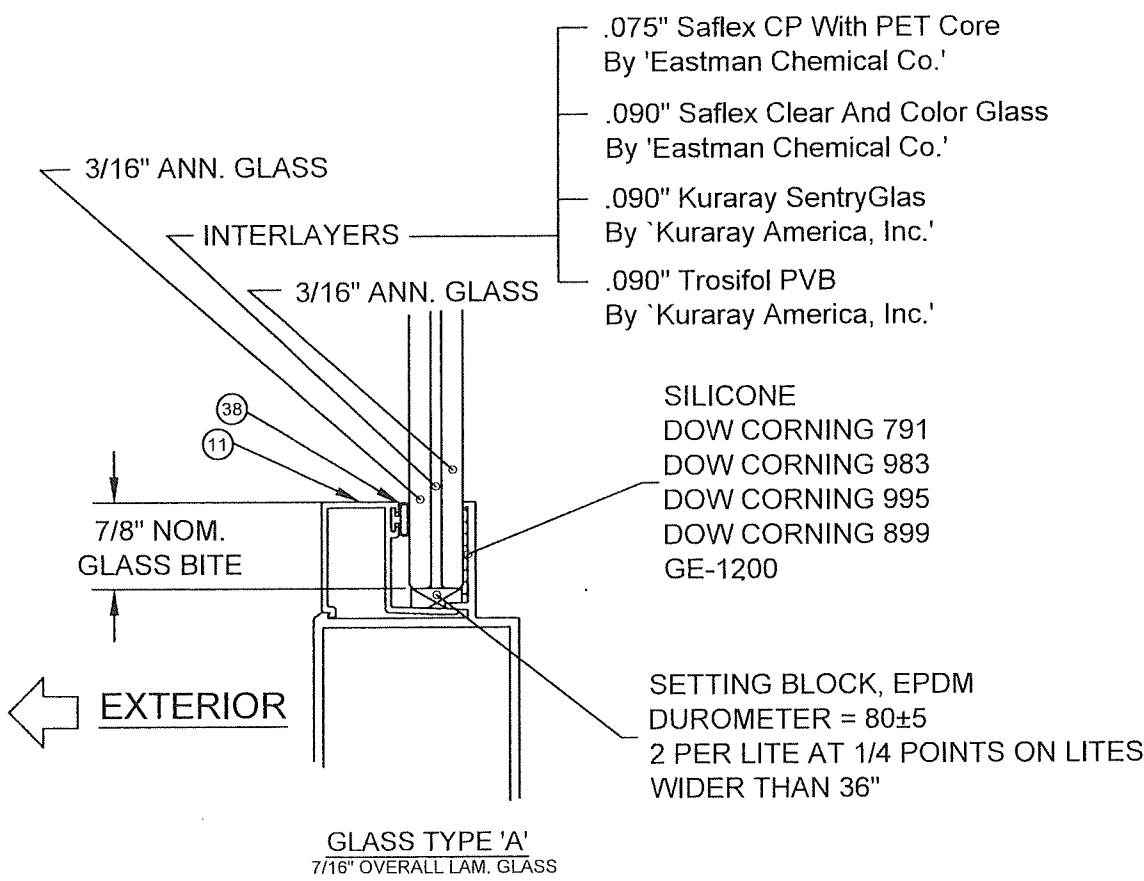


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Expiration Date 8/8/2028

By *Anthony L. Miller*  
Miami Dade Product Control

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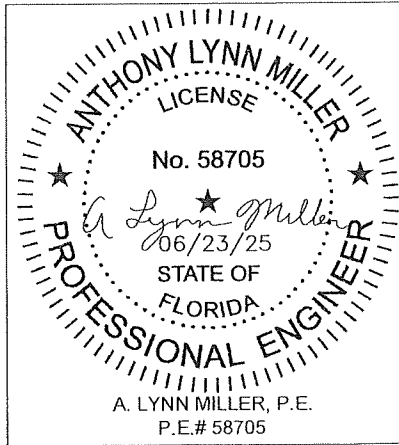
GLAZING OPTIONS



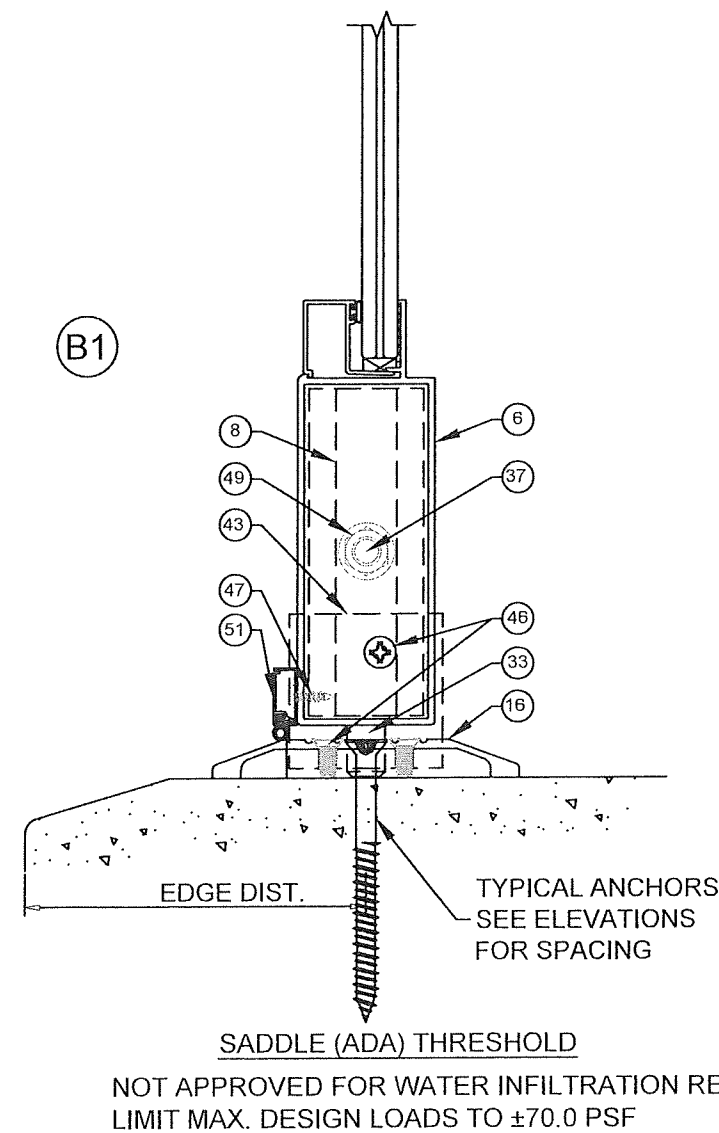
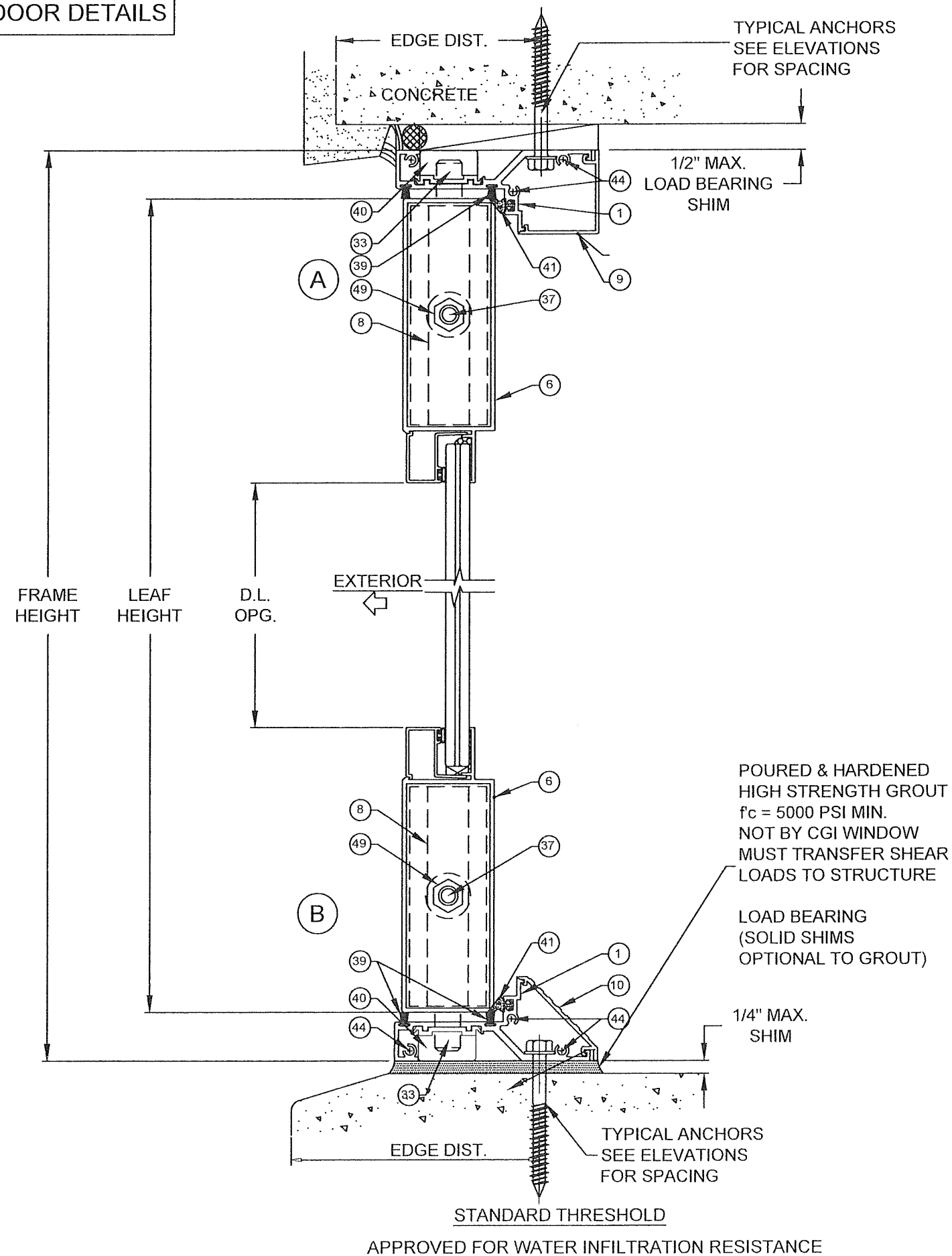
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Impact Resistant Windows & Doors	3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590	GLAZING DETAILS	160 OS FD	5 OF 14	Sheet	Series




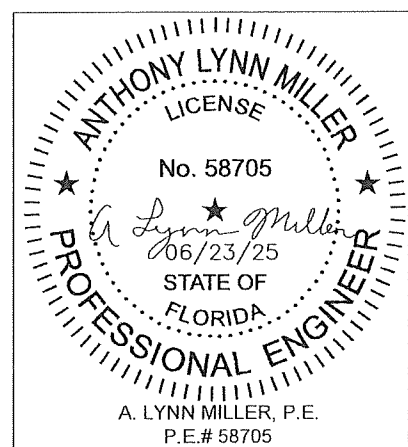
DOOR DETAILS



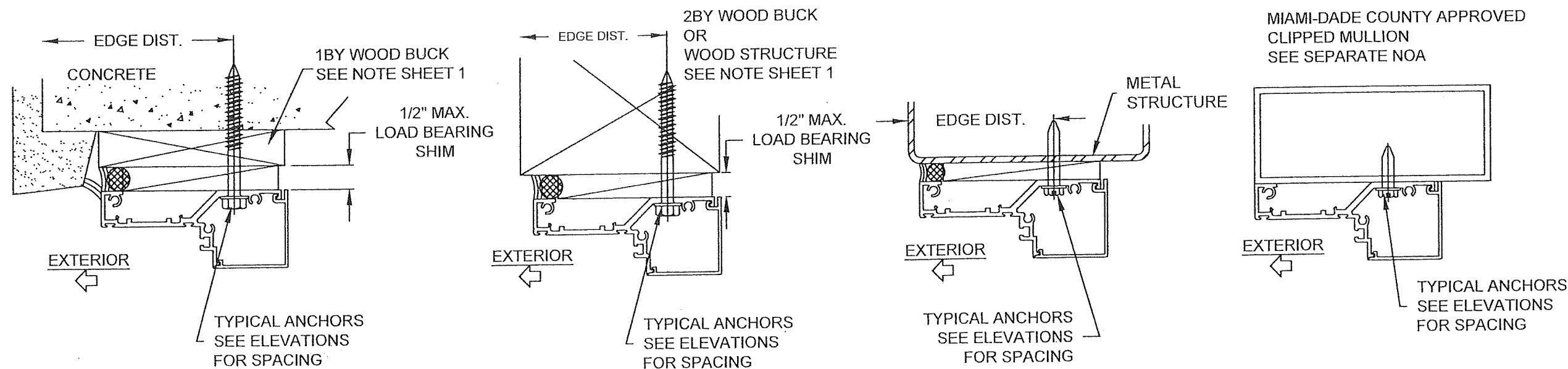
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 <b>Impact Resistant Windows &amp; Doors</b>	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275		DATE 6/17/20		Rev. B
	(941) 480-1600		A. MORLESIN	160 OS FD -LM	
	REGISTRATION #29296				
	SENTINEL 160 OUTSWING DOOR				
	VERTICAL SECTION				
3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590		DWG No.		6 OF 14	
160 OS FD		Sheet		160 OS FD -LM	



DOOR DETAILS



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

Group	Anchor	Substrate	Frame Member	Min. Edge Distance	Min. Embedment
A	1/4" DeWalt Ultracon+ or 1/4" HILTI KWIK CON II	directly into 2BY P.T. Southern Pine, (SG=0.55)	Head/Sill/Jamb/	1"	1-1/2"
		Thru 1BY wood buck into Concrete, (min. 3 ksi)	Head/Sill	2-1/2"	1-3/4"
		Thru 1BY into UngROUTED CMU, (ASTM C-90)	Jamb	2-1/2"	1-1/4"
B	1/4" DeWalt Ultracon+ or 1/4" HILTI KWIK CON II	Directly into Concrete, (min. 3 ksi)	Head/Sill	2-1/2"	1-3/4"
		Directly into UngROUTED CMU, (ASTM C-90)	Jamb	2-1/2"	1-1/4"
C	1/4", TEKS or steel SMS (G5)	Aluminum, (1/8" min)	Head/Sill/Jamb	3/4"	-
		Steel, (1/8" min)	Head/Sill/Jamb	3/4"	-

STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

'UNGROUTED CMU' VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

ALL ANCHOR HEADS TYPES ARE APPLICABLE

GROUP 'C': INTO MIAMI-DADE COUNTY APPROVED MULLIONS OR STEEL

WOOD AT HEAD, JAMBS OR SILL SG = 0.55 MIN.  
CONCRETE AT HEAD, SILL OR JAMBS f<sub>c</sub> = 3000 PSI MIN.  
C-90 HOLLOW/FILLED BLOCK AT JAMBS f<sub>m</sub> = 2000 PSI MIN.

1/4" ULTRACON+ ANCHORS BY 'DEWALT' ARE LIMITED TO A MAXIMUM 1/4" SHIM SPACE. ALL OTHER ANCHORS MAY USE 1/4", 3/8" OR 1/2" SHIM SPACE.

WOOD BUCKS AND METAL STRUCTURE NOT BY CGI WINDOWS MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

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PREPARED BY A. LYNN MILLER  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941) 480-1600  
REGISTRATION #29296

Impact Resistant Windows & Doors  
3780 W 104TH STREET  
HIALEAH, FL 33018  
(305) 593-6590

6/17/20  
Date

6/17/20  
By

A. MORLESIN  
Drawn

160 OS FD -LM  
Rev

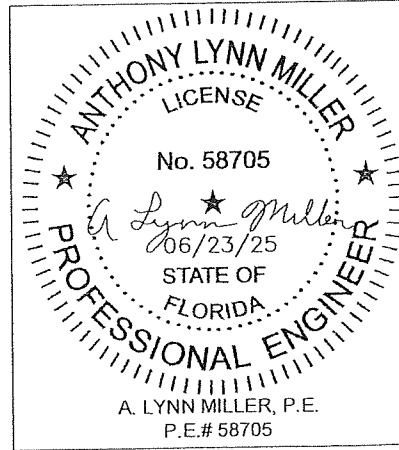
7 OF 14  
DWG

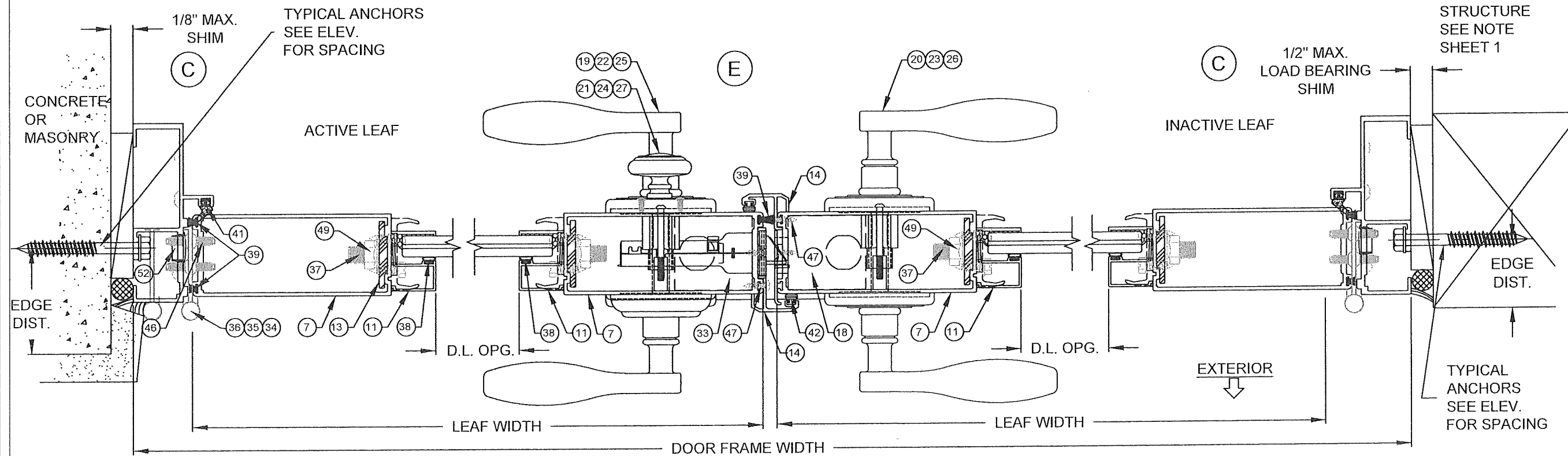
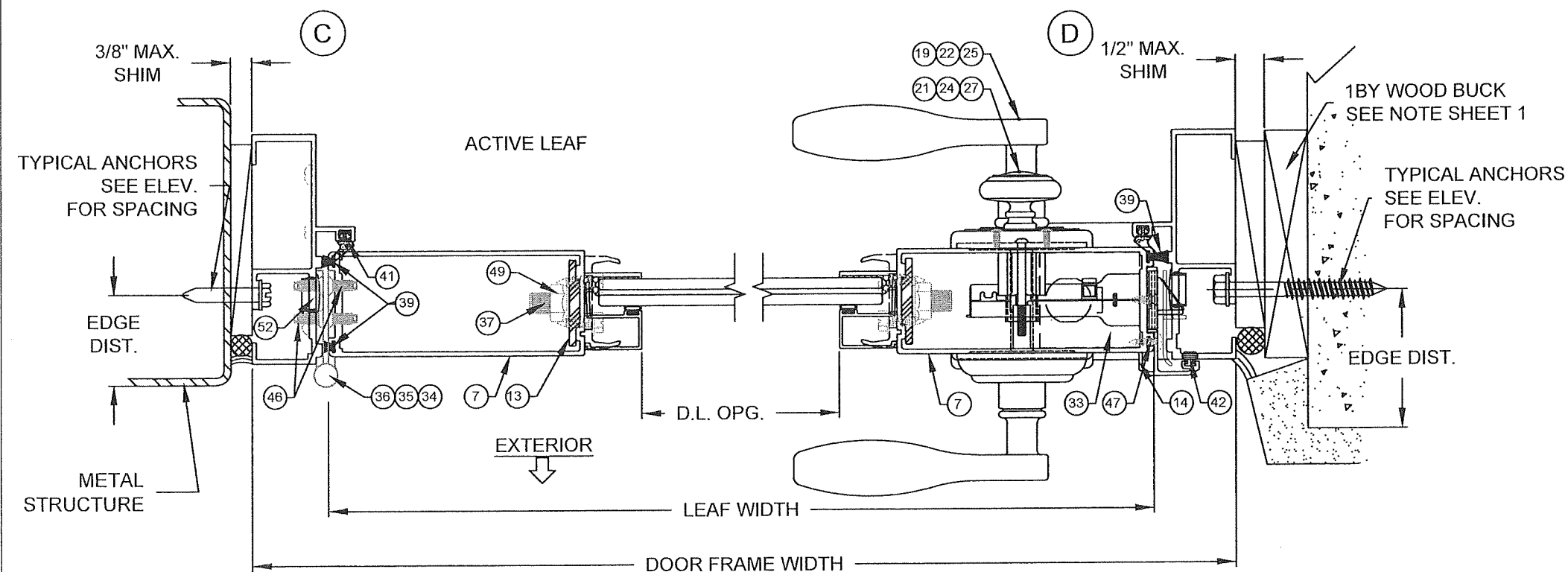
160 OS FD  
Sheet

SENTINEL 160 OUTSWING DOOR  
Title

ANCHOR TABLE  
Desc.

160 OS FD  
Series





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1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275

(941) 480-1600

REGISTRATION #29296

Impact Resistant  
Windows & Doors

3780 W 104TH STREET  
HIALEAH, FL 33018  
(305) 593-6590

SENTINEL 160 OUTSWING DOOR

HORIZONTAL SECTION

160 OS FD

8 OF 14

DWG No.

160 OS FD - LM

Rev.

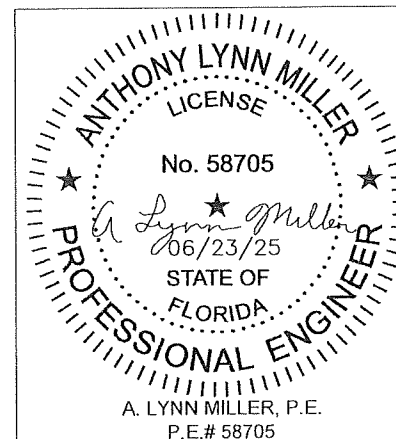
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6/17/20

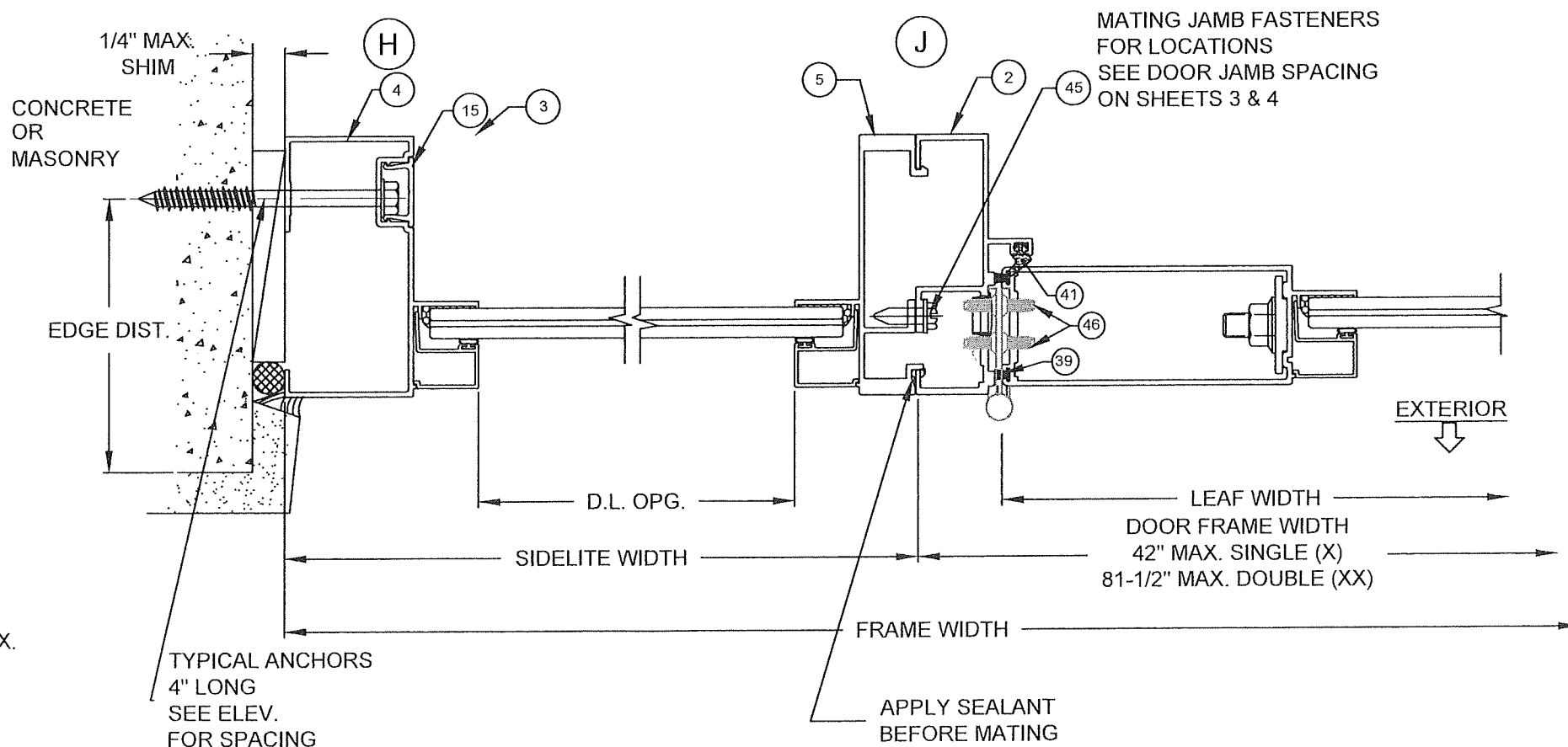
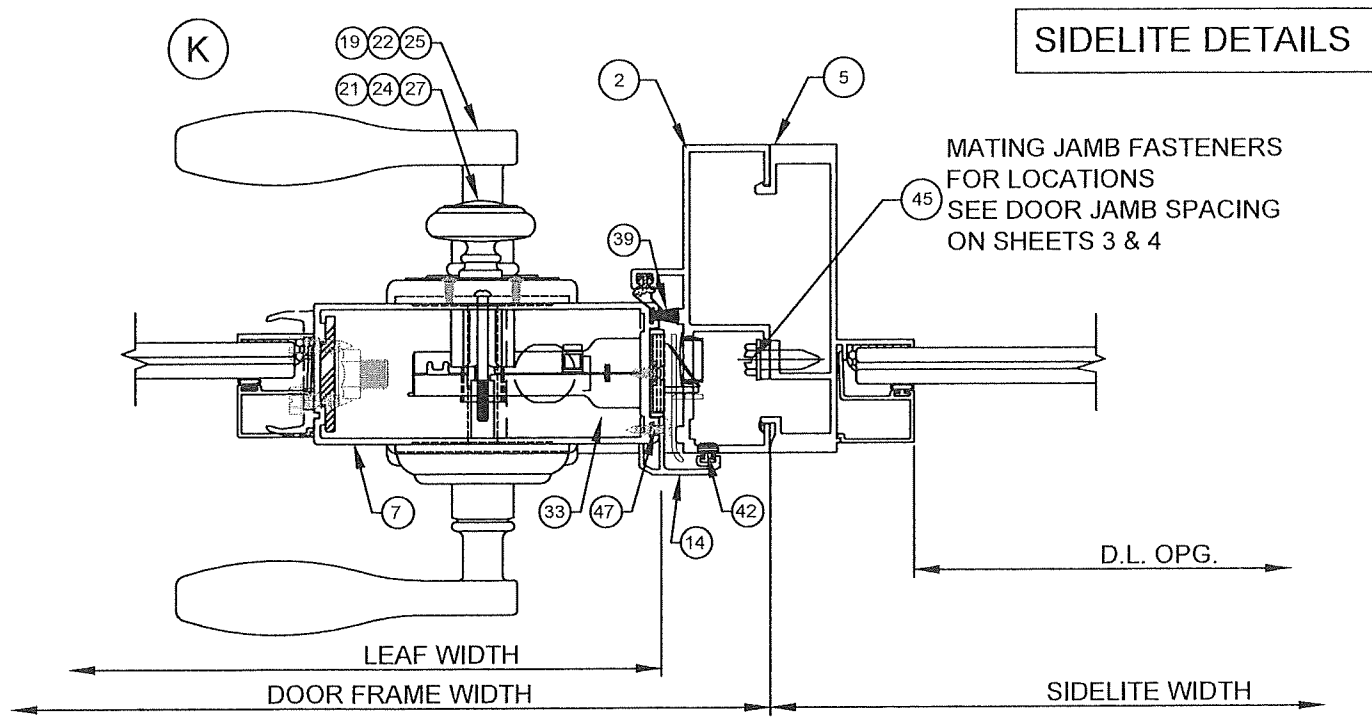
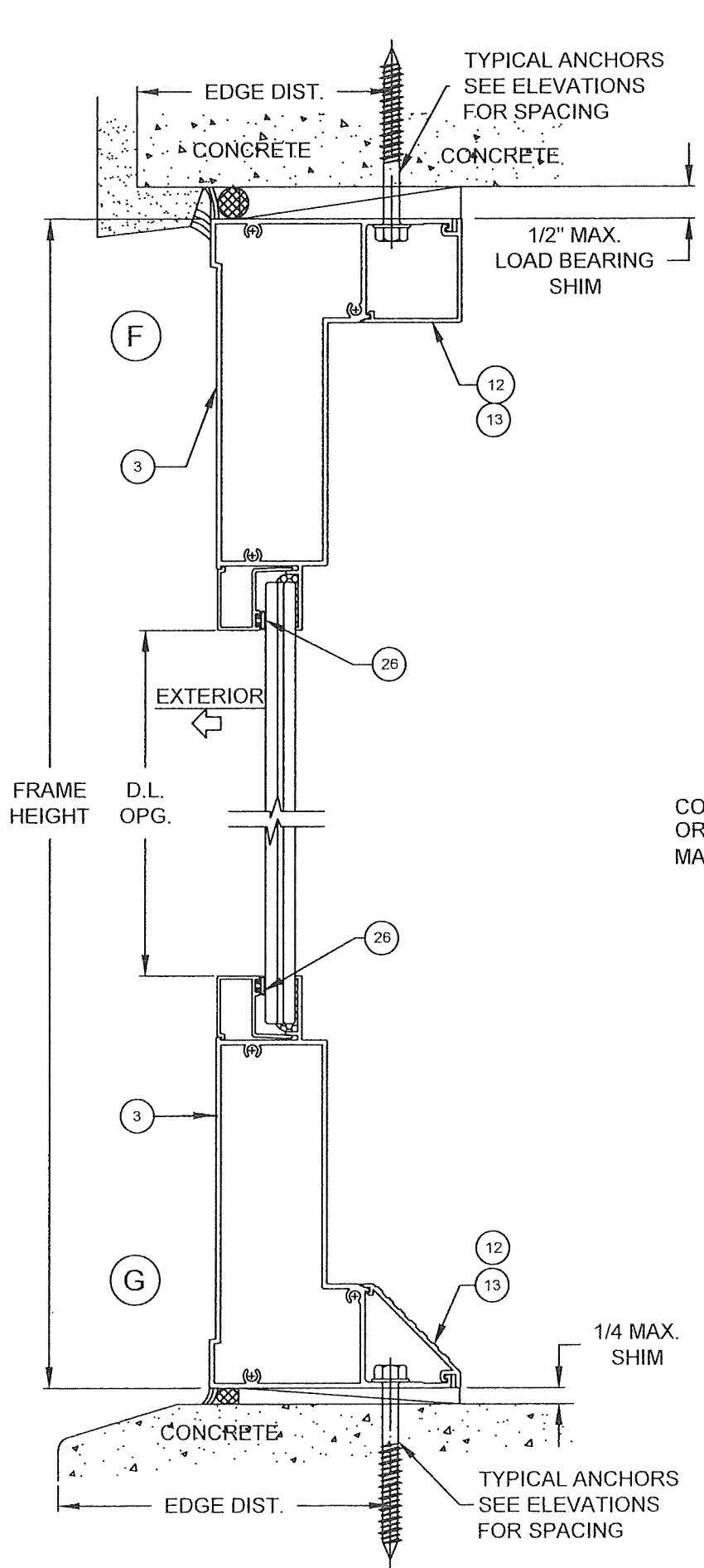
A. MORLESIN

By

Date







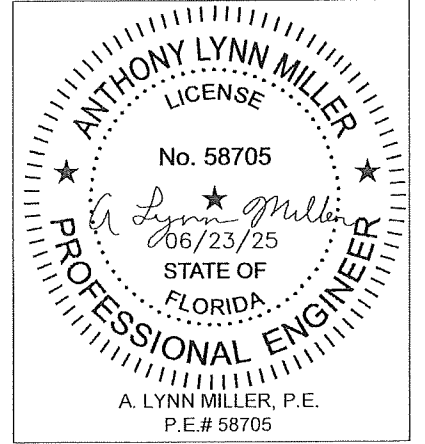
NOTE: LIMIT SHIM TO METAL STRUCTURE AT JAMBS TO 3/8"

**SIDELITE DETAILS**

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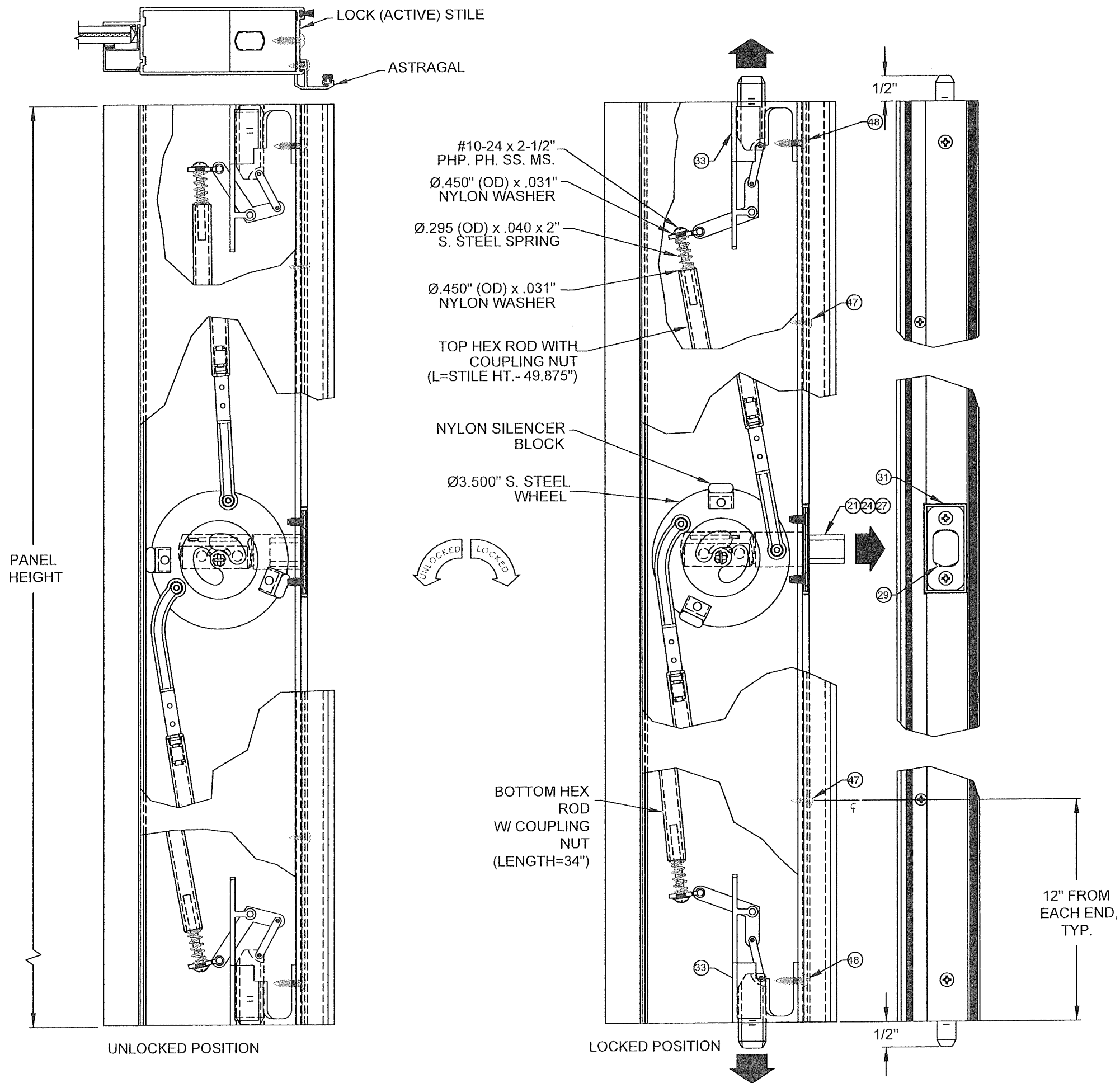
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	Date	Rev.			
	By	Drawn			
Impact Resistant Windows & Doors 3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590	SENTINEL 160 OUTSWING DOOR		SIDELITE DETAILS	9 OF 14	160 OS FD
	Title	Desc.			
	Series	Sheet			






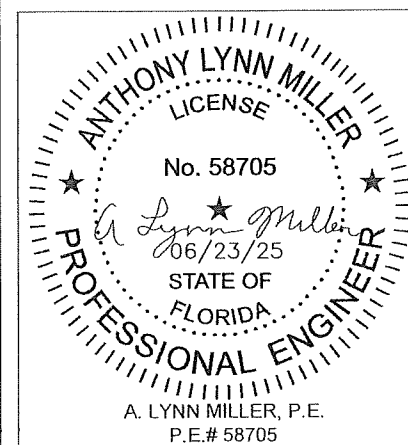


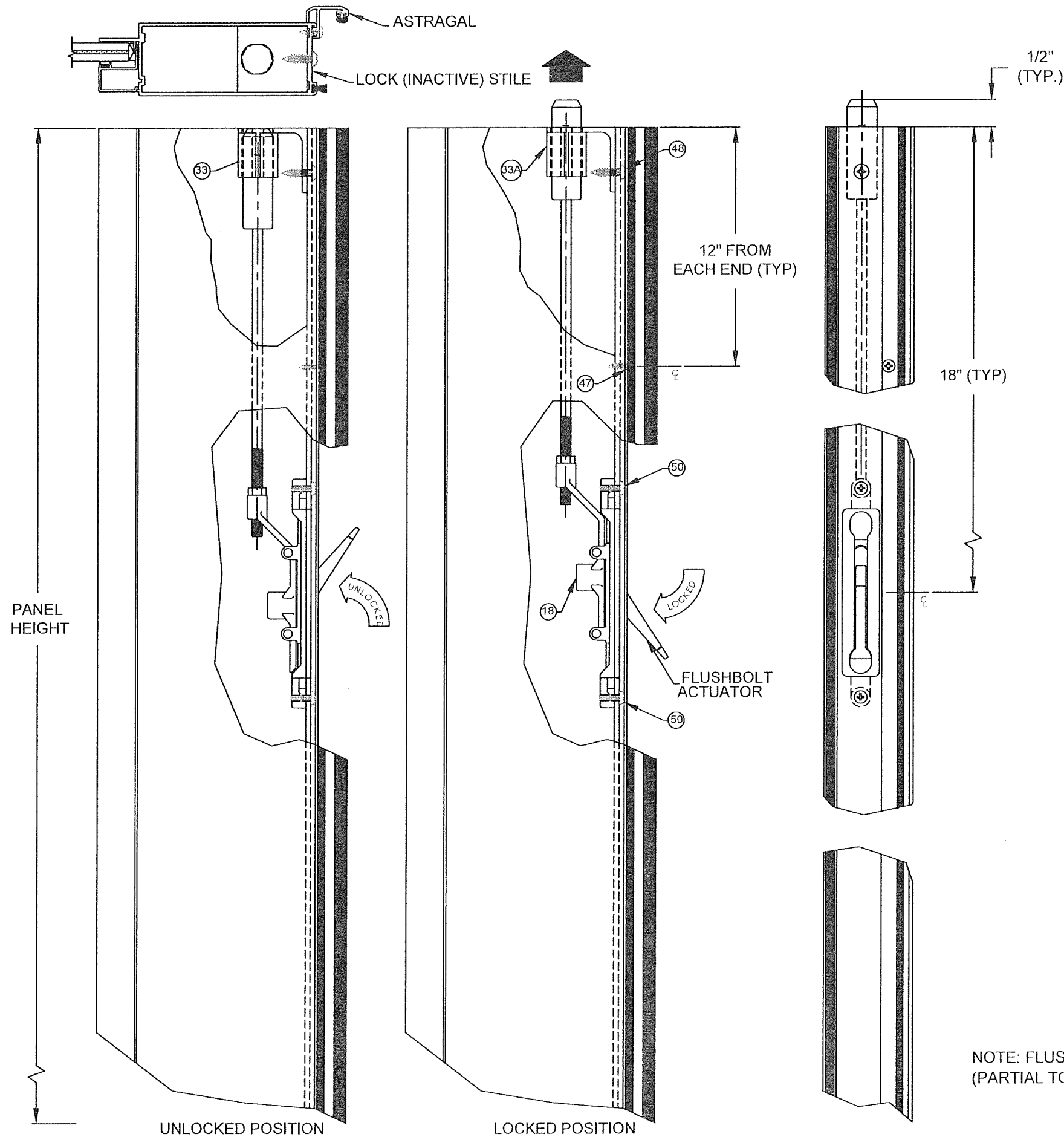


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	3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590		SENTINEL 160 OUTSWING DOOR		Date						
	11 OF 14		LOCK DETAILS		Drawn By		A. MORLESIN				
160 OS FD		Sheet		11 OF 14		DWG. No.		160 OS FD -LM			
Series		Title		Desc.							



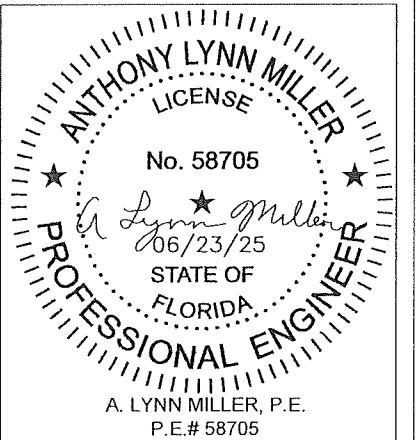


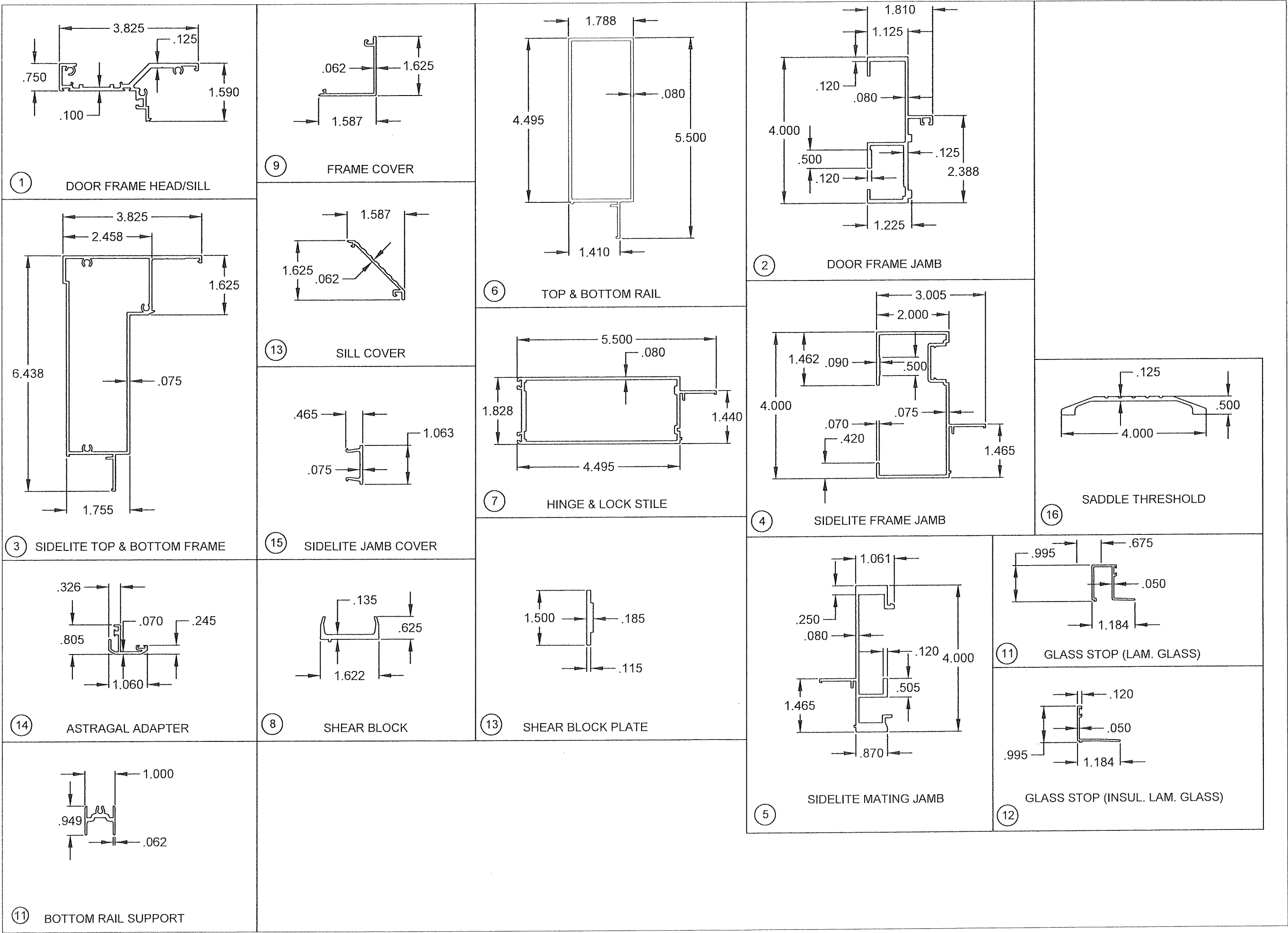
NOTE: FLUSH BOLT AT INACTIVE STILE  
(PARTIAL TOP END SECTION SHOWN, BOTTOM END SIMILAR)

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Miami Dade Product Control

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	6/17/20		A. MORLESIN		160 OS FD -LM B	
	160 OS FD		12 OF 14		160 OS FD -LM B	

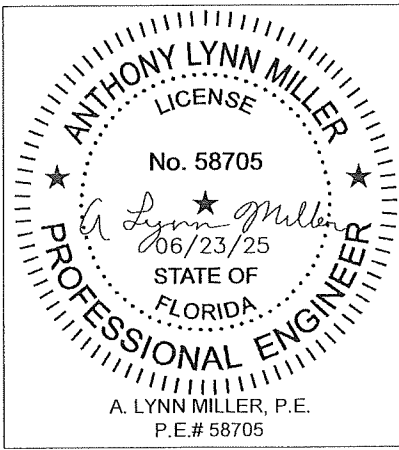


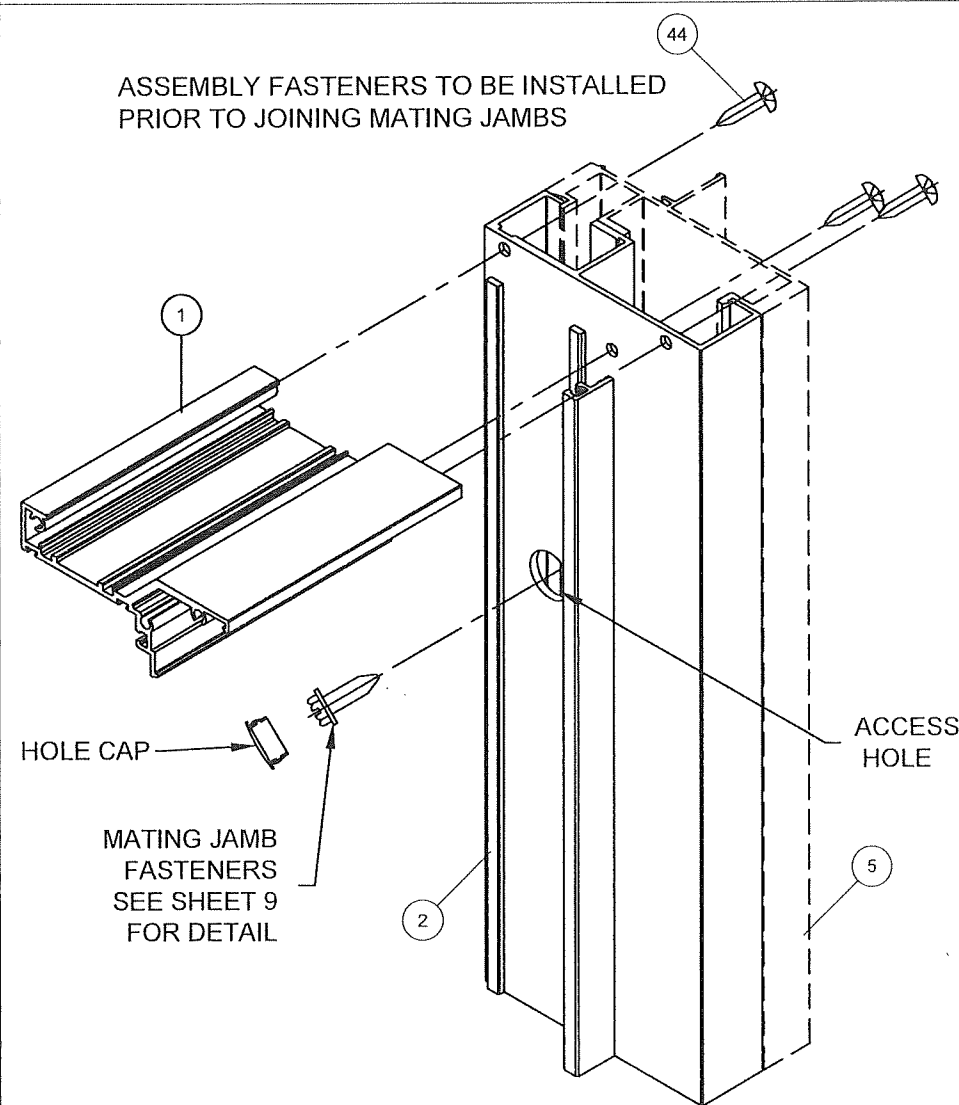


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By *Shay L. L...*  
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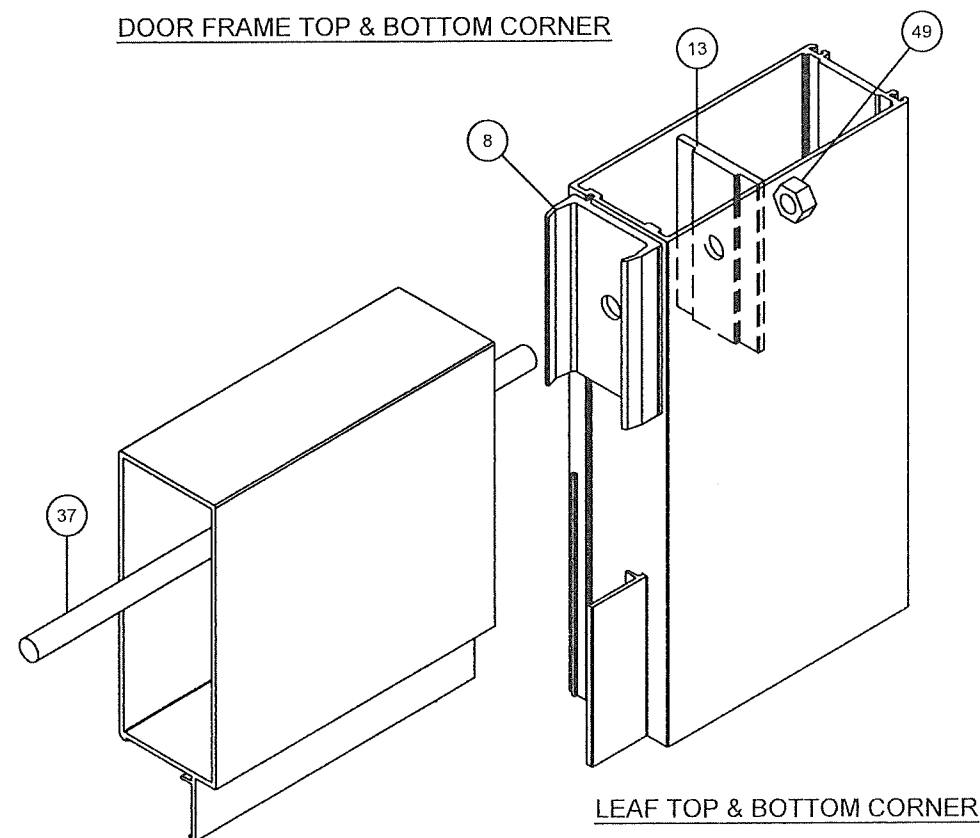
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					Date	
					Drawn By	A. MORLESIN
					DWG No.	160 OS FD -LM
160 OS FD		13 OF 14	SENTINEL 160 OUTSWING DOOR		Rev B	
Series	Sheet		EXTRUSIONS			
Desc.						

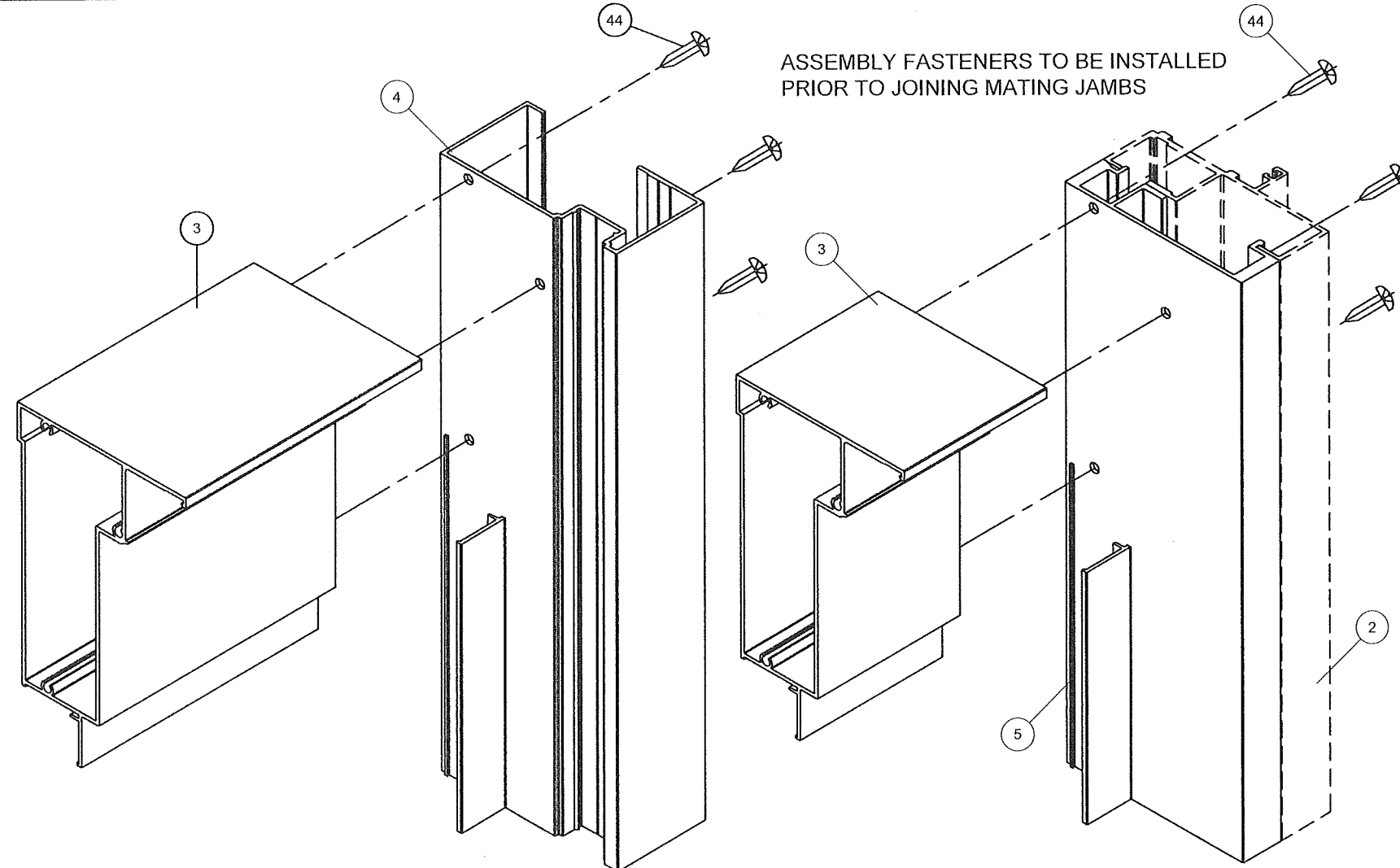




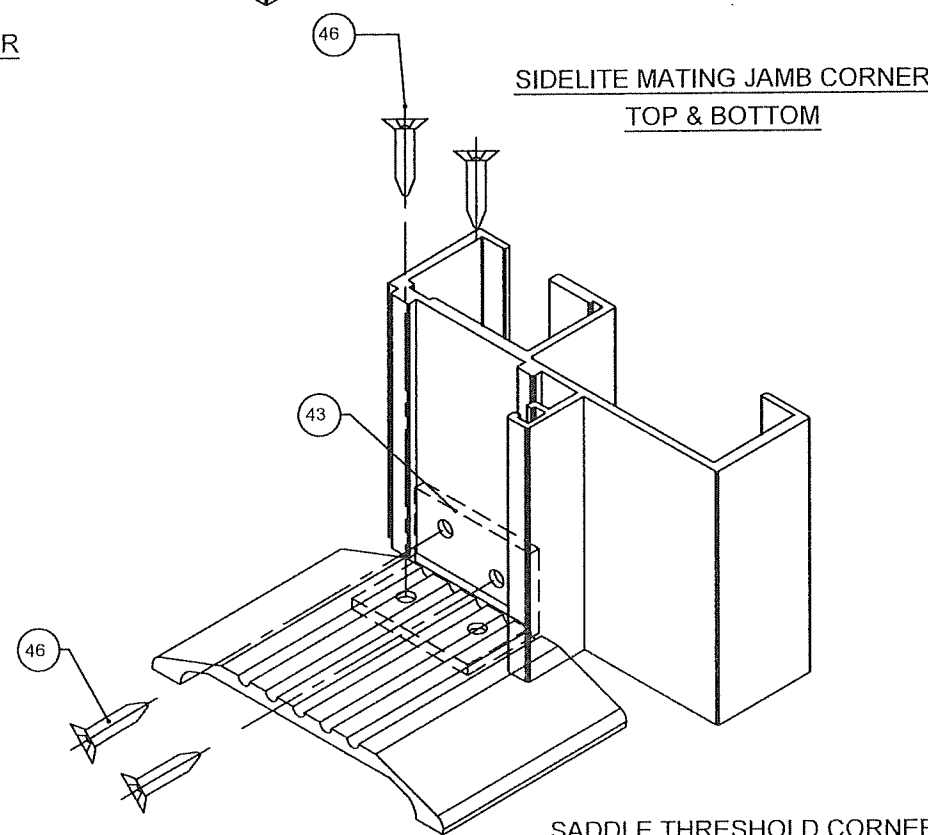
DOOR FRAME TOP & BOTTOM CORNER



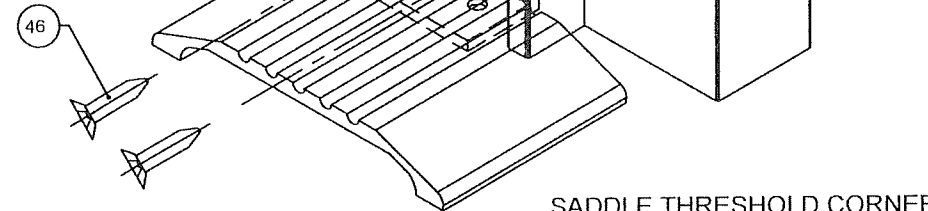
LEAF TOP & BOTTOM CORNER



SIDELITE JAMB CORNER  
TOP & BOTTOM




SIDELITE MATING JAMB CORNER  
TOP & BOTTOM



SADDLE THRESHOLD CORNER

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	3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590		(941) 480-1600		Date				
	SENTINEL 160 OUTSWING DOOR		A. MORLESIN		By				
CORNER ASSEMBLY		14 OF 14		Dwg No.		160 OS FD -LM		Rev.	
160 OS FD		Sheet		160 OS FD -LM		Rev.		B	

