

NOTICE OF ACCEPTANCE (NOA)**CGI Windows & Doors, Inc.****3780 W. 103rd 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 "450" Aluminum Outswing glazed Doors w/wo Sidelites - Impact

APPROVAL DOCUMENT: Drawing No. **450FD1-NOA Rev A** (former **W98-01 Rev O**), titled "Series 450 French Door Glazed & OS-(LM)", sheets thru 17 of 17, prepared by manufacturer, dated 06/12/2020, signed and sealed by Lynn Miller, P.E., bearing the Miami-Dade County Product Control Renewal 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 in sheets **2, 4, 5, 13, 14, 15 & 16** for unit sizes Vs applicable lock options, mullion type, door/ sidelite, glass / sill types and anchors. Lower Design Pressure shall control.
2. For mulled units lower Design pressure of doors or mullion shall control for entire assembly.
3. Exterior Design Pressure= +50.0 PSF w/ threshold (sill type S-I). Sills (threshold) types SS-1 & SS-2 are not rated for water infiltration. See thresholds (sills sheet **9**).
4. See Partial 7/16" & 1" Composite panels in sheet **3**. Narrow stile sidelites are limited to **18"** or less.
5. The frame is of alternate size must not exceed 125 ft², nor panel tested area and max. Panel height.

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 **renews #20-0619.04** 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.**

*Ishaq I. Chanda*

NOA No. 21-0917.03
Expiration Date: November 09, 2026
Approval Date: October 07, 2021,
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 files below).
2. Drawing No. **W98-01 Rev M**, titled "Series 450 Outswing Doors & Sidelites", sheets 1, 1.1, 1.2, 1.3, 1.4, 2, 2.1, 2.2, 2.3, 3, 3.1, 4, 5, 6, 7, 7.1 and 7.2 of 7, prepared by Al-Farooq Corporation, dated 10-27-97 and last revised on 03-22-16, signed and sealed by Javad Ahmad, P.E.

B. TESTS (Submitted under files #14-1103.08 /#12-0706.03/#11-1025.02/#09-0723.04)

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 In swing / Outswing door w/wo sidelites, by Hurricane Testing Laboratory, Inc., Test Report No. **HTL-0080-0304-11** dated 11/28/2011 and **HTL-0080-0902-11**, signed and sealed by Vinu J. Abraham, P.E.

Note: This test report has been revised by addendum letters, issued by Architectural Testing (Former Hurricane Testing Lab), dated 01/20/12 and 04/03/12, both signed and sealed by Vinu J. Abraham, P.E.

Along with manufacturer's parts and section drawing marked-up drawings of double aluminum outswing doors, issued by Architectural Testing, Test Report No(s) **B-5234.02-450-18** dated 12/19/2011, signed and sealed by Vinu J. Abraham, P.E.

2. 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 FBC 2411 3.2.1, TAS 202-94.

Along with manufacturer's parts and section drawing marked-up drawings of aluminum out/in swing door w/sidelites, by Hurricane Testing Laboratory, Inc., Test Report No. **HTL-97055 (0080-912-97)** dated 09/23/97 thru 02/27/98 for specimen #1, 2, 3, 4 tested per PA202-94, specimen #4, 5A, 5B, 5C tested per PA201-94 & PA203-94, signed and sealed by Timothy S. Marshall, P.E.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No 21-0917.03
Expiration Date: November 09, 2026
Approval Date: October 07, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (continued):

Along with manufacturer's parts and section drawing marked-up drawings of aluminum out swing door w/sidelites, by Hurricane Testing Laboratory, Inc., Test Report No. **HTL-01071 (0080-0402-02)** dated 04/01/2002 tested per PA201-94 & PA203-94, signed and sealed by Vinu J. Abraham, P.E. (submitted in file # **09-0723.04**). Original tests conducted per SFBC, PA 201, 202 & 203-94 now known as FBC, TAS 201, 202 & 203-94.

3. Reference Certified Testing Laboratories test report # **CTLA 3056WA**, issued to CGI Windows & Doors Inc. per TAS 201, 202 and 203-94 for specimen #1 thru #30 for laminated PVB glass, insulated PVB laminated glass with Duraseal and super spacers, signed and sealed by Ramesh C. Patel, P.E.

C. CALCULATIONS (Submitted under files #14-1103.08)

1. Anchor verification calculations and structural analysis, complying with FBC-2014(**5th Edition**), prepared by Al Farooq Corporation, dated 10/27/14 and last revised on AUG 27, 2015, signed and sealed by Javad Ahmad, P.E.
2. Additional intermediate horizontal mull calculations, prepared by Al Farooq Corporation, dated JUN 29, 2012, signed and sealed by Javad Ahmad, P.E. (Submitted under file # **11-1025.03**)
3. Glazing complies w/ ASTM E-1300-02, -04 & -09.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.11** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/4/17.
2. Notice of Acceptance No. **14-0423.15** 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 12/11/18.
3. Notice of Acceptance No. **15-1201.11** issued to Eastman Chemical Company (MA) (Former Solutia, Inc.) for the "**Saflex Clear and Color Glass Interlayers**", expiring on 05/21/21.

F. STATEMENTS (Submitted under files #14-1103.08)

1. Statement letter of conformance to FBC 2014(**5th Edition**) and letter of no financial interest, prepared by Al Farooq Corporation, dated 09/30/14, signed and sealed by Javad Ahmad, P.E.
2. Lab compliance and addendum letters, as part of the above referenced test reports.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No 21-0917.03
Expiration Date: November 09, 2026
Approval Date: October 07, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHER

1. This NOA **revises & renews #14-1103.08**, expiring on November 09, 2021.
2. Hardware cut sheets verified and marked-up by the Architectural Testing (former Hurricane Testing lab).
3. Test proposal dated 12/16/14 approved by RER and Test proposal # **10-0940**, dated 11/17/10 approved by BNC.

2. EVIDENCE SUBMITTED under previous approval

A. DRAWINGS

1. Drawing No. **W98-01 Rev O**, titled "Series 450 Outswing Doors & Sidelites", sheets 1, 1.1, 1.2, 1.3, 1.4, 2, 2.1, 2.2, 2.3, 3, 3.1, 4, 5, 6, 7, 7.1 and 7.2 of 7, prepared by Al-Farooq Corporation, dated 10/27/97 and last revised on 09/21/17, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)** and with **FBC 6th Edition (2017)**, prepared by Al Farooq Corporation, dated 09/29/17, signed and sealed by Javad Ahmad, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-0712.03** issued to Eastman Chemical Company (MA) for the "**Saflex CP - Saflex and Saflex HP Composite Glass Interlayers w/ PET Core**", expiring on 12/11/18.
2. Notice of Acceptance No. **17-0712.05** issued to Eastman Chemical Company (MA) for the "**Saflex Clear and Color Glass Interlayers**", expiring on 05/21/21.

F. STATEMENTS

1. Statement letter of conformance to **FBC 5th Edition (2014)** and **FBC 6th Edition (2017)** and letter of no financial interest, prepared by Al Farooq Corporation, dated 08/30/17, signed and sealed by Javad Ahmad, P.E.

G. OTHER

1. This NOA **revises #16-0329.04**, expiring on 11/09/21.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No 21-0917.03
Expiration Date: November 09, 2026
Approval Date: October 07, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted under previous approval

A. DRAWINGS

1. Drawing No. **450FD1-NOA Rev A** (former **W98-01 Rev O**) , titled “Series 450 French Door Glazed & OS-(LM)”, sheets thru 17 of 17, prepared by manufacturer, dated 06/12/2020, signed and sealed by Lynn 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.

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.

WinDoor, Inc. test specimens:

FTL-20-2078.1, WinDoor PW3000 Aluminum Fixed Lite (unit 11 in proposal)
FTL-20-2078.2, WinDoor HR9470 Thermally Broken Alum. Horiz. Roller (unit 12)
FTL-20-2078.3, WinDoor SGD8100 Alum. Sliding Glass Door (unit 13 in proposal)
FTL-20-2078.4, WinDoor HR9470 Thermally Broken Alum. Horiz. Roller (unit 14)
FTL-20-2078.5, WinDoor PW9020 Alum. Fixed Lite (unit 15 in proposal) and
FTL-20-2078.6, WinDoor PW9020 Alum. Fixed Lite (unit 16 in proposal), all dated 09/24/20 and signed and sealed by Idalmis Ortega, P.E.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No 21-0917.03
Expiration Date: November 09, 2026
Approval Date: October 07, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 2020, 7th Edition**, prepared by manufacturer, dated 04/20/20, 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. **18-0301.06** issued to Eastman Chemical Company (MA) for their “**Saflex CP - Saflex and Saflex HP Composite Glass Interlayers w/ PET Core**”, expiring on 12/11/23.
3. Notice of Acceptance No. **17-0712.05** issued to Eastman Chemical Company (MA) for their “**Saflex Clear and Color Glass Interlayers**”, expiring on 05/21/21.

F. STATEMENTS

1. Statement letter of conformance to FBC 2020 (**7th Edition**), issued by manufacturer, dated 6/20/20, 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 **renews # 17-1011.12** and updated to FBC 2020, expiring **11/09/2026**.
2. RER Test proposals **#19-1155** dated 01/10/20 approved by Ishaq I. Chanda, P.E.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No 21-0917.03
Expiration Date: November 09, 2026
Approval Date: October 07, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. New Evidence submitted

A. DRAWINGS

1. Drawing No. **450FD1-NOA Rev A** (former **W98-01 Rev O**), titled “Series 450 French Door Glazed & OS-(LM)”, sheets thru 17 of 17, prepared by manufacturer, dated 06/12/2020, signed and sealed by Lynn Miller, P.E.

B. TESTS

1. None.

C. CALCULATIONS (submitted under file # 20-0619.04)

1. Anchor verification calculations and structural analysis, complying with **FBC 7th Edition (2020)**, dated 06/12/20 and revised on 06/20/20, prepared by manufacturer, signed, and sealed by Anthony Lynn Miller, P.E.

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. **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.
3. Notice of Acceptance No. **21-0216.01** issued to Eastman Chemical Company (MA) (Former Solutia, Inc.) for the “**Saflex Clear and Color Glass Interlayers**”, expiring on 05/21/26.

F. STATEMENTS

1. Statement letter of conformance to FBC 2020 (7th Edition) and No financial interest with Testing lab, issued by PGT, dated 09/14/21, signed and sealed by Lynn Miller, P. E.
2. Statement letter dated 09/14/21, request for renewal with no change, issued by PGT, signed and sealed by Lynn Miller, P. E.
3. Private Label Agreement dated 07/17/20 between Windoor, Inc. and CGI Windows and Doors, signed by Dean M. Ruark, P.E., V.P. Eng., on behalf of respective companies (submitted under previous approval)

G. OTHER

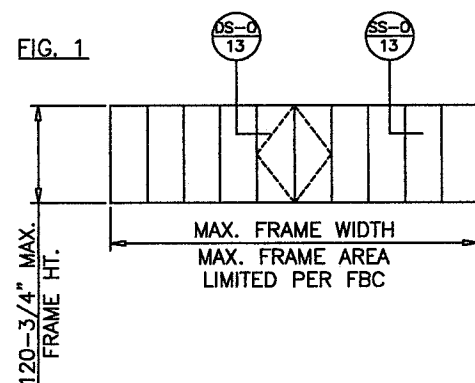
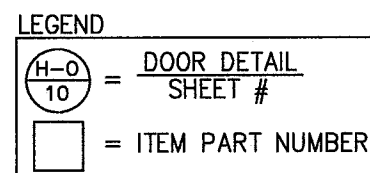
1. This NOA **renews #20-0619.04**.
2. Additional associated reference file **#21-0917.06 (LMI)**.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No 21-0917.03
Expiration Date: November 09, 2026
Approval Date: October 07, 2021

SERIES 450 ALUM. OUTSWING GLAZED DOORS WITH OR WITHOUT SIDELITES, LARGE & SMALL MISSILE

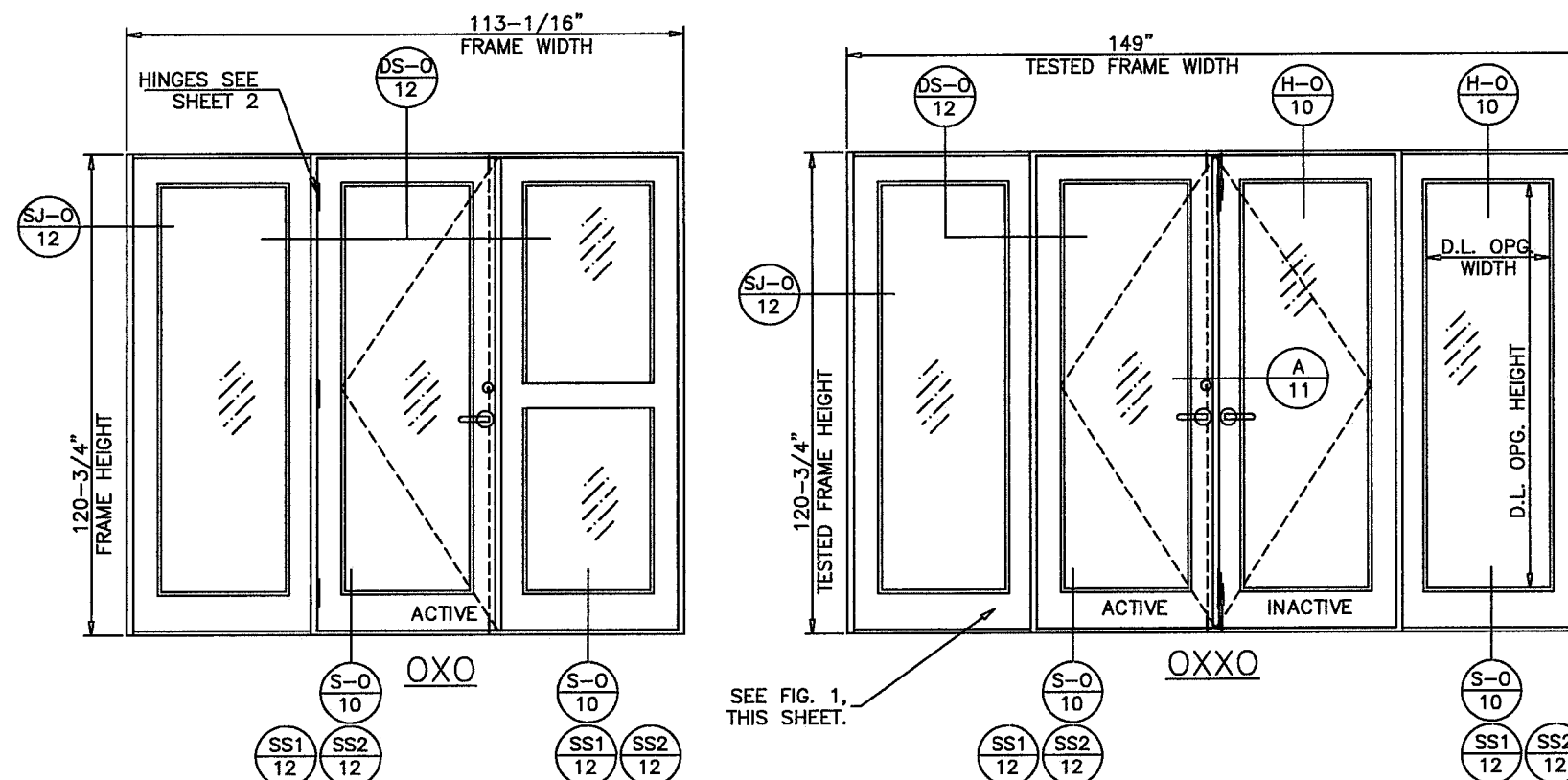
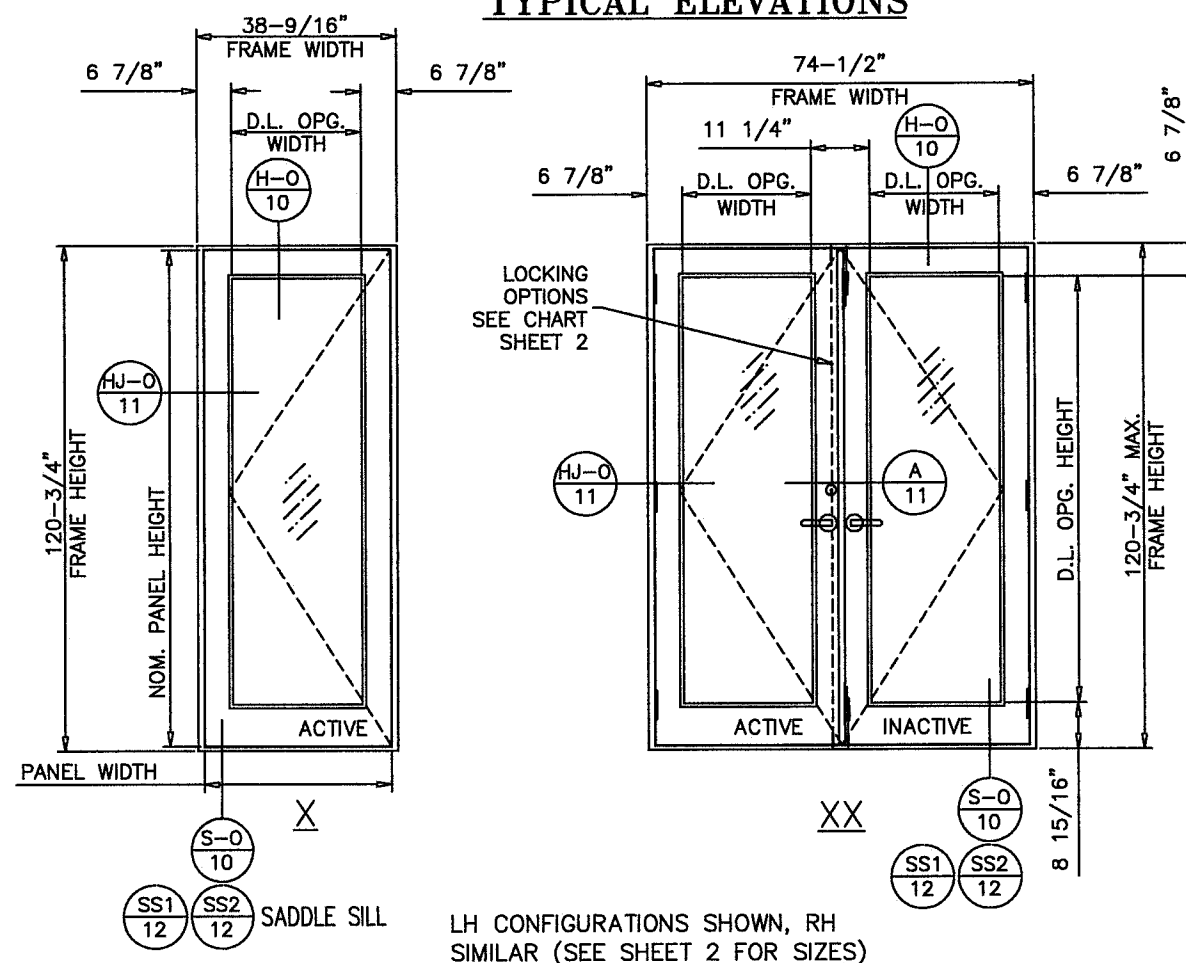
- 1) THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION)/2020 (7TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2) 1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.
- 3) 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.
- 4) A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
- 5) ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.
- 6) MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017/2020 FLORIDA BUILDING CODE & ADOPTED STANDARDS.
- 7) 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.
- 8) EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.
FRAME HEIGHT = PANEL HEIGHT + 1-7/8" (STD. THRESHOLD)
FRAME HEIGHT = PANEL HEIGHT + 1-5/8" (ADA THRESHOLD)
FRAME WIDTH = PANEL WIDTH + 2-13/16"



MULTIPLE SIDELITES W/ DOORS
WITHIN TESTED FRAME AREA ARE
AVAILABLE (SEE SHEET 14) 125 SQ.
FT. TESTED FRAME AREA

STEPS TO USE CHARTS:

- 1) DETERMINE WIND LOAD BASED ON PROVISIONS OF 2017/2020 FLORIDA BLDG. CODE.
- 2) DETERMINE WATER INFILTRATION REQUIREMENTS BASED ON PROVISIONS OF FBC.
- 3) SELECT A DOOR SYSTEM I.E. OUTSWING AND TYPE OF THRESHOLD FROM SHEET 14 AND LOCK OPTIONS FROM SHEET 2.
- 4) CHECK THE ALLOWABLE EXTERIOR AND INTERIOR LOADS FROM APPROPRIATE CHARTS ON SHEETS 2, 13 & 14. THE ALLOWABLE LOADS MUST MEET OR EXCEED THE DESIGN LOADS REQUIREMENTS.
- 5) SELECT AND CHECK ANCHORS TO MEET LOAD. (SEE SHEETS 15 & 16)
- 6) FOR MULLED SIDELITE REFER TO MULLION CAPACITY ON SHEET 13.
- 7) LOWER DESIGN PRESSURE FROM LOCKS CHART, PANEL PERFORMANCE CHART, MULLION PERFORMANCE CHART AND ANCHOR CAPACITY CHARTS AT MULLION AND MTG. STILE ENDS SHALL CONTROL THE ENTIRE SYSTEM.
- 8) MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.



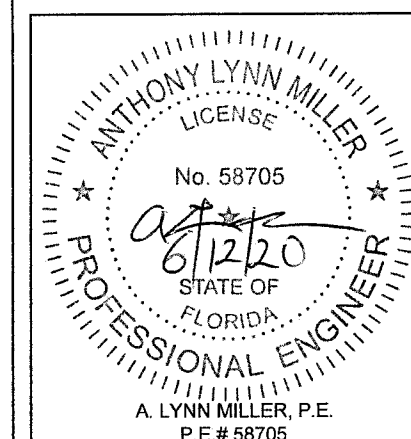
SEE FIG. 1,
THIS SHEET.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0927.03
Expiration Date 02/27/2023
By Ishag I. Chank
Miami-Dade Product Control

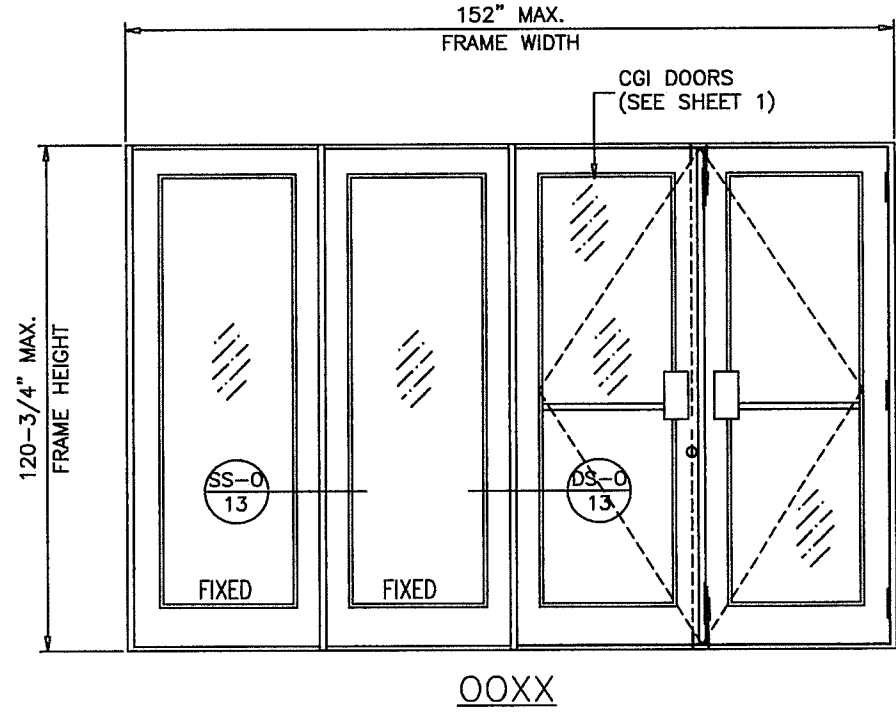
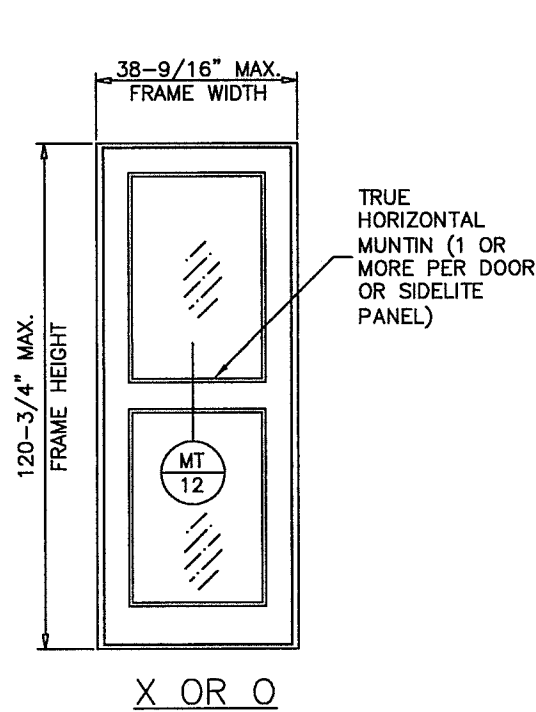
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0619.04
Expiration Date 11/09/2021
By Ishag I. Chank
Miami-Dade Product Control

REVISION:
REVISED FOR 2020 FBC,
ADDED GEN. NOTES,
ANCHOR TYPE,
BACKBEDDING TYPES &
REFORMATTED - JR - 6/11/20

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date 06/12/2020	By J ROSOWSKI	Rev.	A
				No.	450FD1-NOA
				DWG	1 OF 17
				Sheet	NTS
Impact Resistant Windows & Doors WE'RE STRONGER™ CGI WINDOWS AND DOORS, INC. 3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590	450 ALUM. FRENCH DOOR - GLAZED & OS (LM)	GEN. NOTES AND ELEVATIONS	FD450 OUTSWING	Scale	NTS
				Series	FD450 OUTSWING
				Desc.	FD450 OUTSWING
				Title	FD450 OUTSWING



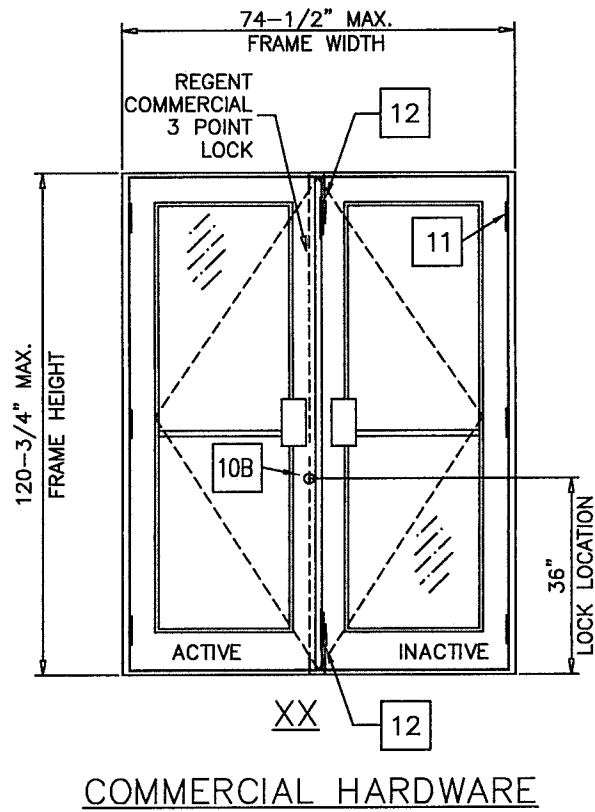
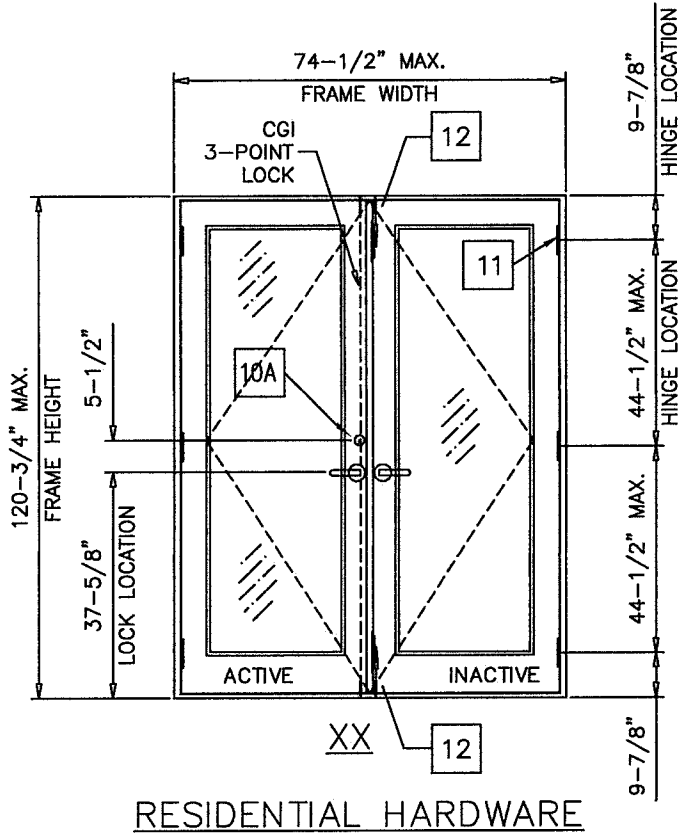
HARDWARE DESCRIPTION, TYPICAL ELEVATIONS



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0619.04
Expiration Date 11/09/2021
By Ishag I. Chande
Miami-Dade Product Control

HINGE LOCATIONS		
MAX. FRAME HEIGHT	NO. REQD.	MAX. SPACING
UP TO 90-3/4"	3	35 1/2"
ABOVE 90-3/4" UPTO 120-3/4"	4	44 1/2"

DOORS WITH 3 HINGES LIMITED TO 100 PSF



FRAME HEIGHT	10A		10AA		10B		10C & 10CC		10D & 10E		10 F	
	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
84-3/4"	90.0	90.0	100.0	110.0	100.0	110.0	65.0	65.0	80.0	80.0	100.0	110.0
96-3/4"	90.0	90.0	100.0	110.0	100.0	110.0	65.0	65.0	70.0	70.0	90.0	90.0
108-3/4"	-	-	100.0	110.0	100.0	110.0	-	-	-	-	90.0	90.0
120-3/4"	-	-	70.0	70.0	70.0	70.0	-	-	-	-	70.0	70.0

- 10A : COPPER CREEK W/ CGI 3 POINT
10AA : BALDWIN W/ CGI 3 POINT
10B : REGENT COMMERCIAL 3 POINT
10C : BALDWIN SINGLE POINT LOCK
10CC : COPPER CREEK SINGLE POINT LOCK
10D : DOR-O-MATIC SERIES 1690
10E : JACKSON SERIES 2085/2065
10F : SURFACE MOUNTED LOCK

FRAME WIDTH (X)	FRAME WIDTH (XX)	DOOR/SIDELITE PANEL WIDTH	D.L. OPG. WIDTH
26-9/16"	50-1/2"	23-3/4"	12-3/4"
32-9/16"	62-1/2"	29-3/4"	18-3/4"
38-9/16"	74-1/2"	35-3/4"	24-3/4"
44-9/16"	86-1/2"	41-3/4"	30-3/4"

FRAME HEIGHT	DOOR/SIDELITE PANEL * HEIGHT	D.L. OPG. HEIGHT
82-3/4"	80-7/8"	67-3/8"
84-3/4"	82-7/8"	69-3/8"
90-3/4"	88-7/8"	75-3/8"
96-3/4"	94-7/8"	81-3/8"
102-3/4"	100-7/8"	87-3/8"
108-3/4"	106-7/8"	93-3/8"
114-3/4"	112-7/8"	99-3/8"
120-3/4"	118-7/8"	105-3/8"

* HEIGHTS FOR STD. THRESHOLD

LEGEND

= DOOR DETAIL SHEET #

= ITEM PART NUMBER

LH CONFIGURATIONS SHOWN, RH
SIMILAR (SEE SHEET 2 FOR SIZES)

FRAME HEIGHT = PANEL HEIGHT + 1-7/8" (STD. THRESHOLD)
FRAME HEIGHT = PANEL HEIGHT + 1-5/8" (ADA THRESHOLD)
FRAME WIDTH = PANEL WIDTH + 2-13/16"

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Building Code
NOA-No. 21-0927.03

Expiration Date 02/27/2023

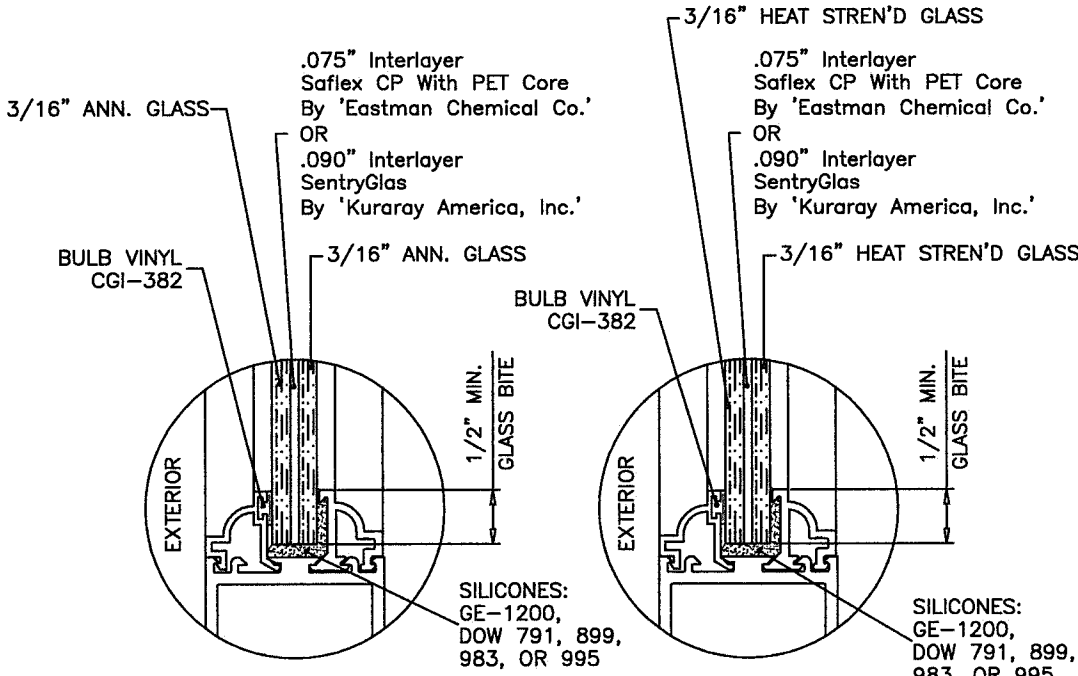
By Ishag I. Chande
Miami-Dade Product Control

Revision:

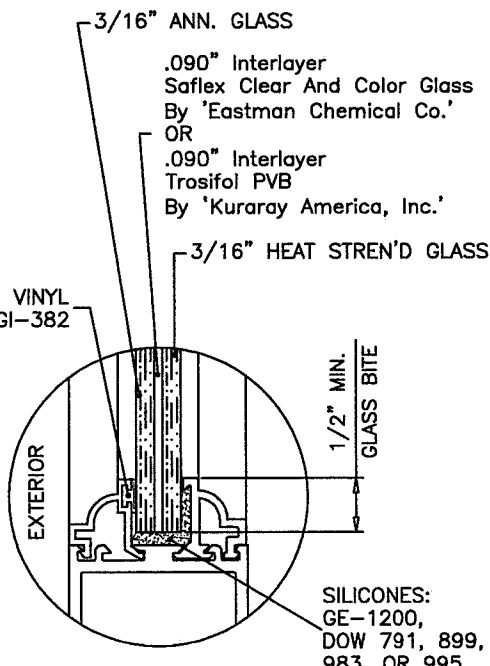
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	06/12/2020	Rev.	A
		By	J ROSOWSKI	No.	450FD1-NOA
		Drawn		DWG	
				2 OF 17	
 CGI WINDOWS AND DOORS, INC. 3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590	450 ALUM. FRENCH DOOR - GLAZED & OS (LM)	DESIGN PRESSURES AND ELEVATIONS	FD450 OUTSWING	Sheet	
				NTS	
				Scale	
				Series	

ANTHONY LYNN MILLER
LICENSE
No. 58705
6/12/20
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

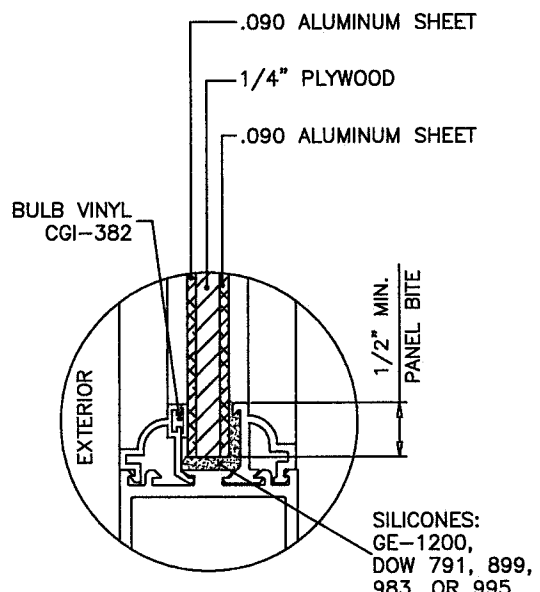
GLAZING OPTIONS



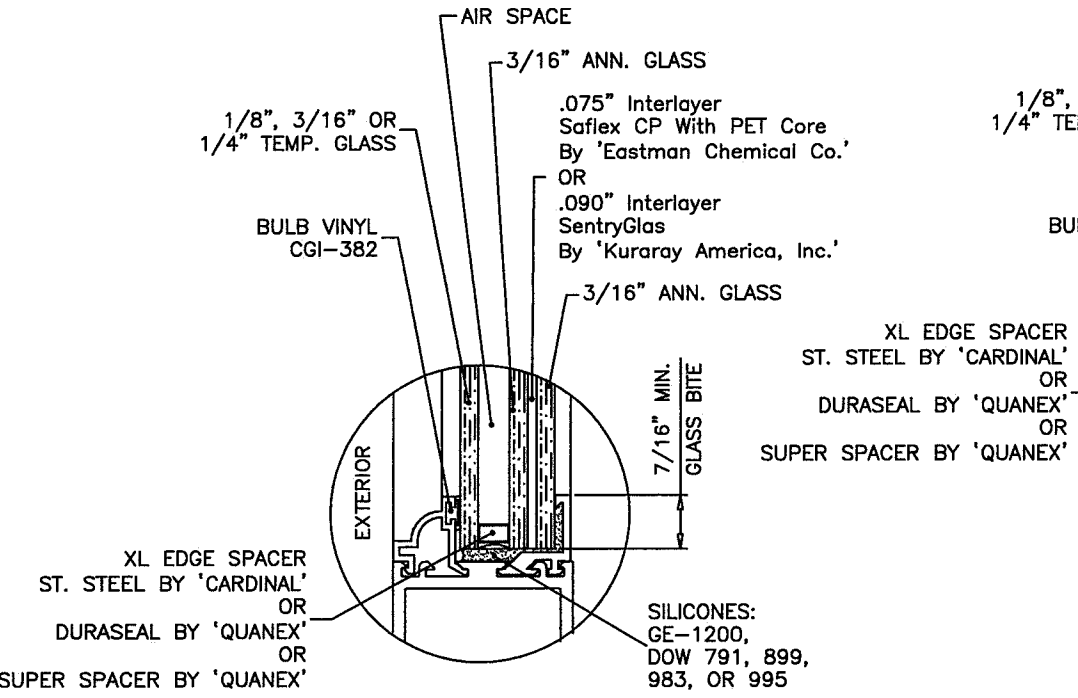
GLASS TYPE 'A'
7/16" OVERALL LAM. GLASS



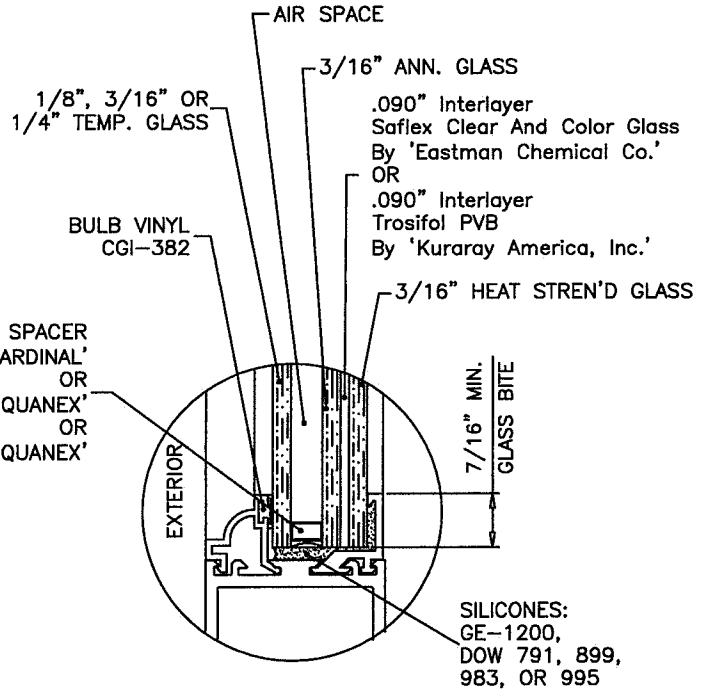
GLASS TYPE 'B'
7/16" OVERALL LAM. GLASS



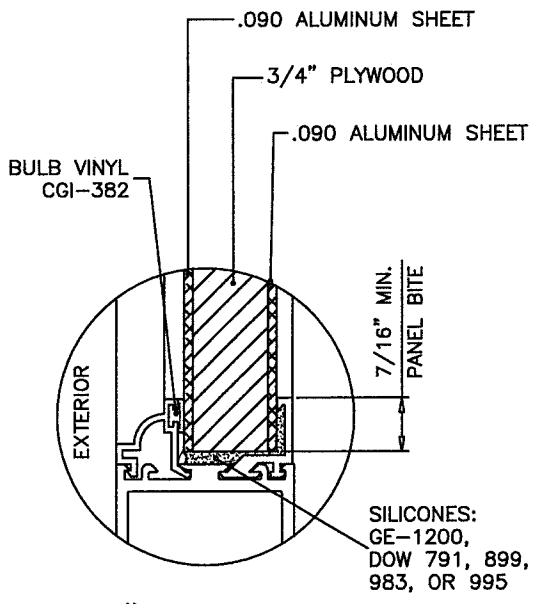
7/16" OVERALL
COMPOSITE PANEL



GLASS TYPE 'A1'
1" OVERALL INSUL. LAM. GLASS

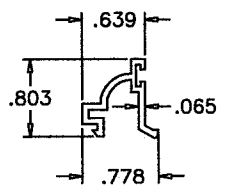


GLASS TYPE 'B1'
1" OVERALL INSUL. LAM. GLASS

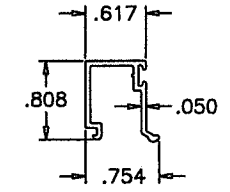


1" OVERALL
COMPOSITE PANEL

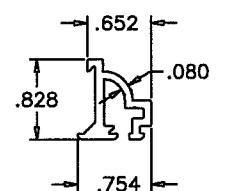
GLAZING STOP
OPTIONS



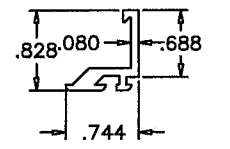
CGI-375



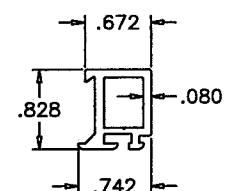
CGI-396



CGI-504



CGI-515



CGI-519

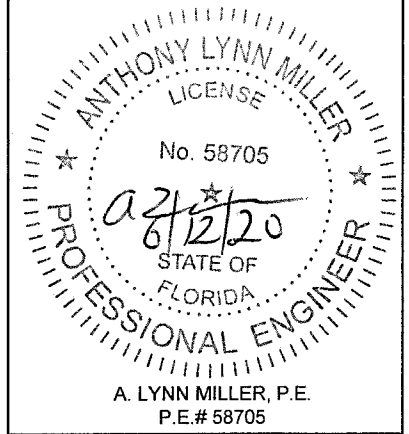
DOORS AND SIDELITES CAN BE
GLAZED USING SQUARE OR
OGEE GLAZING BEADS/ADAPTERS

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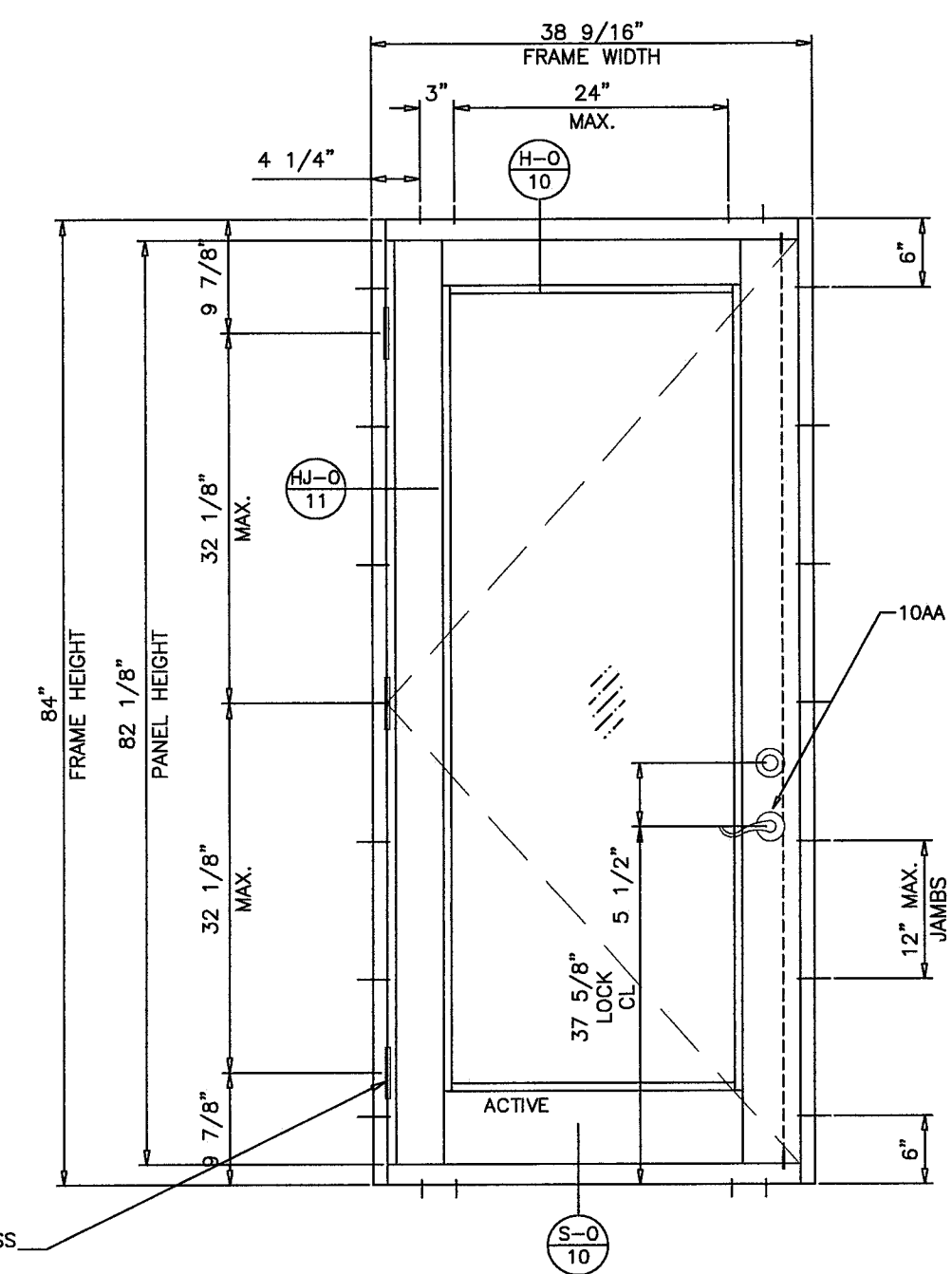
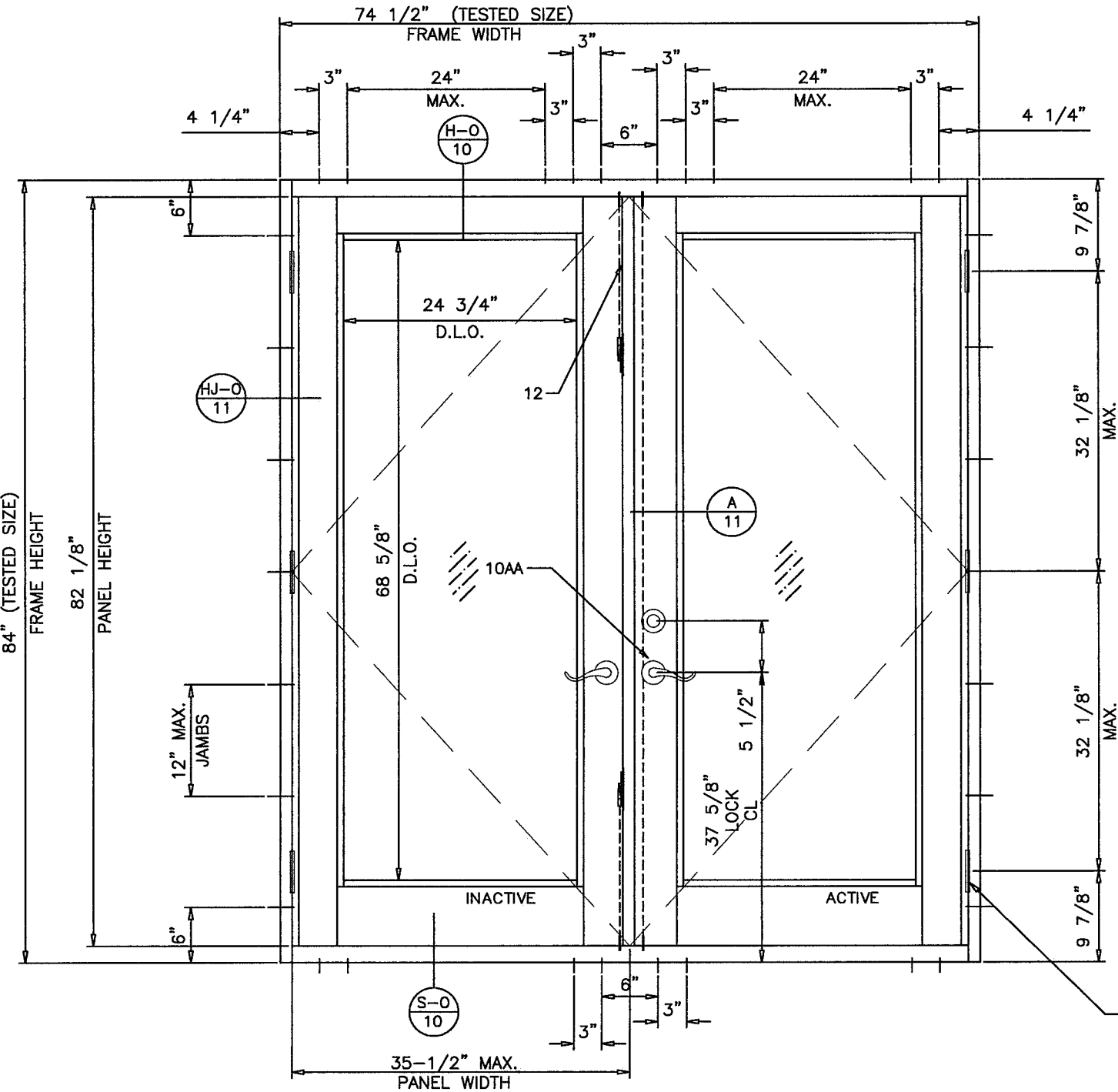
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Revision:
ADDED BACKBEDDING
TYPES - JR - 6/11/20

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	06/12/2020	J ROSOWSKI	Rev.	A
				By	450FD1-NOA
				No.	3 OF 17
				Sheet	NTS
Impact Resistant Windows & Doors WE'RE STRONGER™ CGI WINDOWS AND DOORS, INC. 3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590	450 ALUM. FRENCH DOOR - GLAZED & OS (LM)	GLAZING DETAILS	FD450 OUTSWING	Series Desc. Title	
				GLAZING DETAILS	
				FD450 OUTSWING	
				GLAZING DETAILS	



STD. HARDWARE



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NOTE:
THIS UNIT IS STAND ALONE UNIT TO BE USED AS 'X' OR 'XX' (OUTSWING) TO THE
MAX. SIZE SHOWN, WITH GLASS TYPE 'A' AND LOCKING MECHANISM '10AA' (BALDWIN
8200 DEADBOLT W/ CGI 3 POINT LOCK) AND 'S-0' THRESHOLD 507.
THIS UNIT CAN NOT BE USED WITH SIDELITE OR MULLED.

LARGE MISSILE IMPACT

MAXIMUM DESIGN LOAD RATING = + 100.0
(FOR SIZES SHOWN ABOVE OR SMALLER UPTO CODE LIMIT) - 132.0 PSF
GLASS TYPE 'A'
LOCK OPTION: 10AA CGI 3-POINT MECHANISM W/ BALDWIN SERIES 8200 DEAD BOLT

LOADS SHOWN ABOVE ARE FOR ELEVATIONS SHOWN ON THIS SHEET ONLY.

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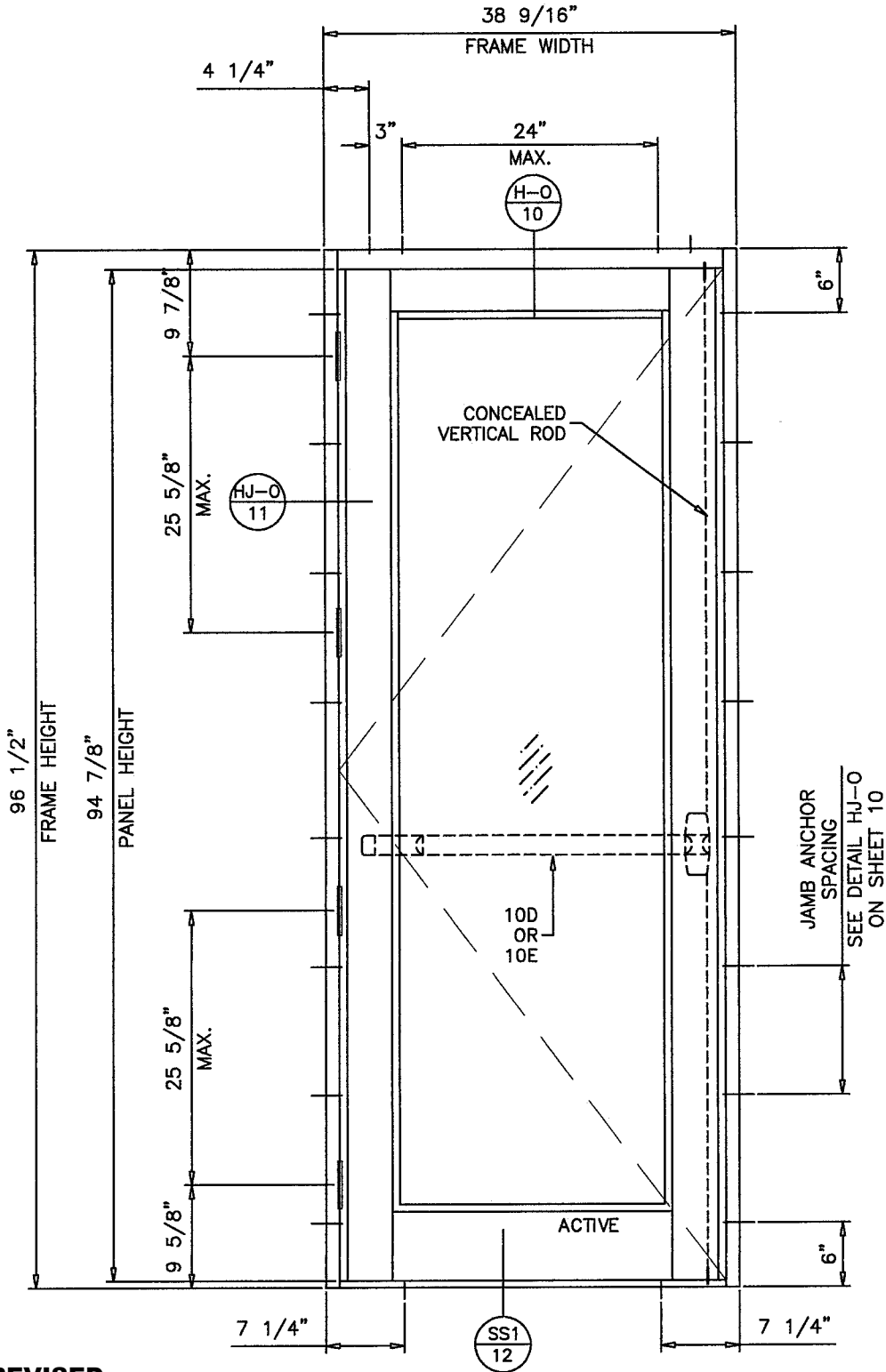
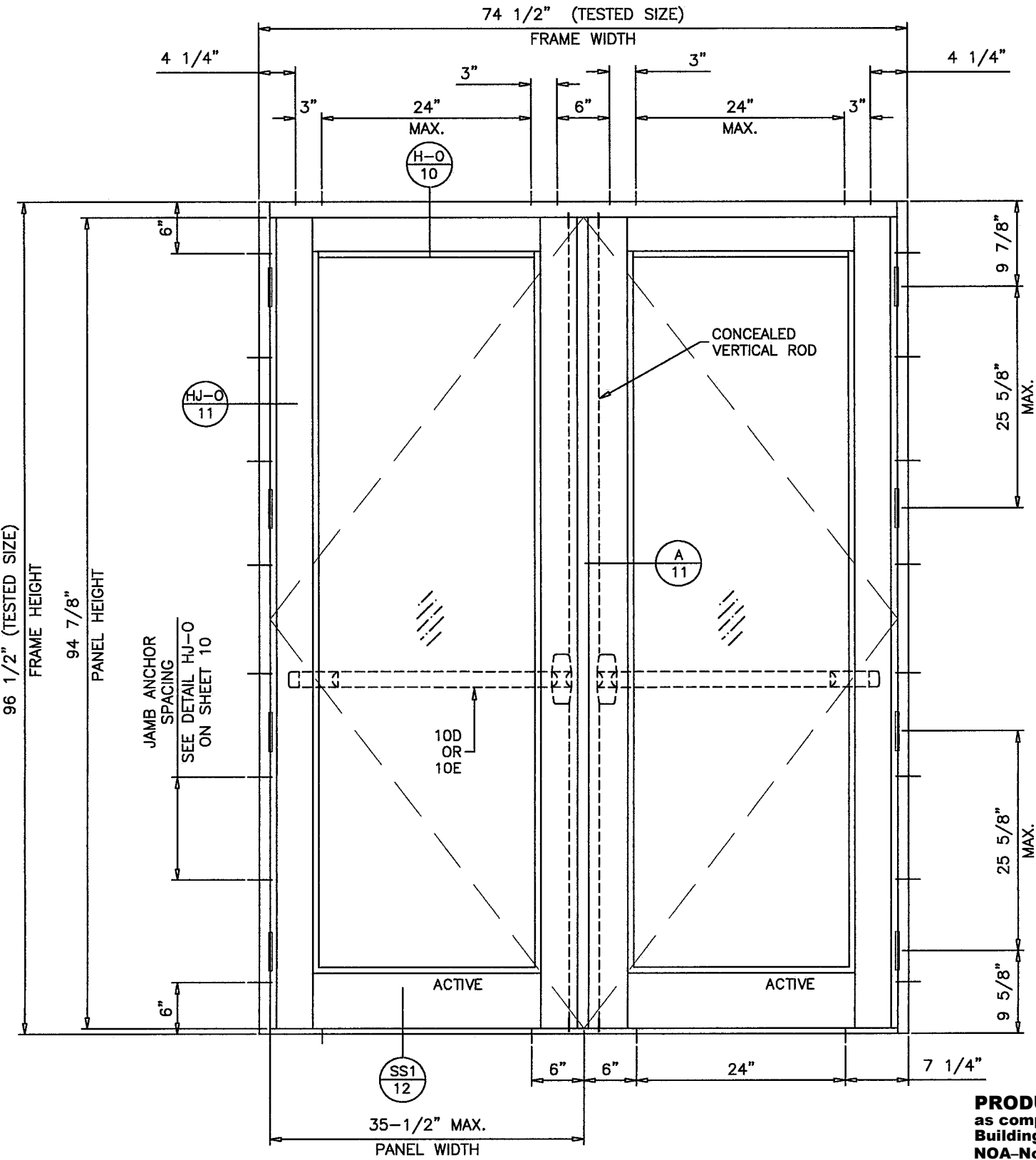
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	DATE 06/12/2020	BY J. ROSOWSKI	DWC 450FD1-NOA	SHEET 4 OF 17	SCALE NTS	TITLE STD. DARDWARE ANCHOR LAYOUT	SERIES FD450 OUTSWING

Impact Resistant
Windows & Doors
WE'RE STRONGER™
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

ANTHONY LYNN MILLER
LICENSE
No. 58705
6/12/20
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

CVR PANIC HARDWARE



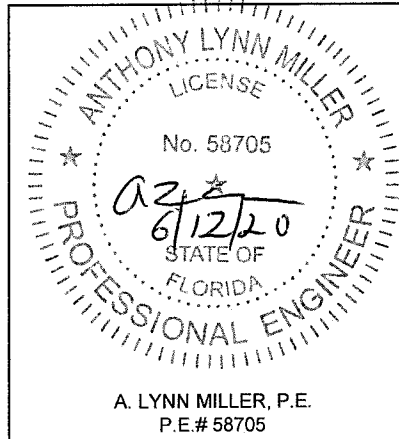
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By Ishag I. Chanda
Miami-Dade Product Control

DOORS LOAD CAPACITY - PSF			
FRAME HEIGHT	FRAME WIDTH	EXT.(+)	INT.(-)
96-1/2"	74-1/2"	70.0	70.0
84-1/2"	74-1/2"	80.0	80.0

DOOR NOT RATED FOR WATER INFILTRATION RESISTANCE.
QUALIFIED WITH ALL GLASS TYPES SHOWN ON SHEET 3
LOCK OPTIONS 10D AND 10E

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PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	06/12/2020	By	J ROSOWSKI	Rev.	A
		Drawn				No.	450FD1-NOA
Impact Resistant Windows & Doors WE'RE STRONGER™ CGI WINDOWS AND DOORS, INC. 3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590	450 ALUM. FRENCH DOOR - GLAZED & OS (LM)	Panic Hardware Anchor Layout		5 OF 17		Sheet	
		FD450 OUTSWING		NTS		Scale	



APPROVED PANIC HARDWARE FOR DOORS
DOR-O-MATIC SERIES 1690 TOUCHBAR EXIT DEVICE
JACKSON SERIES 2085/2086 CONCEALED VERTICAL
ROD EXIT DEVICE

BILL OF MATERIALS

ITEM	DESCRIPTION
1	#12 X 1 1/4" HEX HEAD S/S SMS (3 PER CORNER CONNECTION)
2A	3/8-16 FULLY THREADED CONTINUOUS ROD
2B	3/8-16 HEX NUT
2C	1 1/2" X 1 1/2" X 3/16"THK. ALUMINUM PLATE
3	SHEAR CLIP (EXT. NO. 506)
4	DOUBLE 9/32" DIA. JAMB INSTLL. HOLES AT 6" FROM ENDS & 24" O.C. MAX.
5	9/32" DIA. HEAD & SILL INSTLL. HOLES AT 6" FROM ENDS, 3 @ CENTER OF PAIRS SPACED 6" O.C. & 24" O.C. MAX.
6	#10 X 1" PH-PH-SS TEKS SCREW, @ 3" & 7" FROM ENDS & 19-3/8" O.C. MAX.
7	#14 X 3/4" HEX HEAD S/S TEKS SCREW AT 6" FROM ENDS & 24 3/16" O.C. MAX.
8	.320 HIGH WOOL PILE WITH CENTER FIN (ULTRAFAB # 3032)
9	.350 HIGH FOAM-TITE WEATHERSEAL (AMESBURY # 32011)
10	ACTIVE PANEL LOCK OPTIONS (SEE SHEET 1.1 FOR LIMITS)
10A	CGI CUSTOM 3 POINT LOCK 4503PL, CONSISTING OF (2) CGI CUSTOM END BOLTS (TOP & BOTTOM), ATTACHED WITH #10 X 3/4" PH SMS, (1) CGI CUSTOM INTERIOR LINKAGE MECHANISM, (1) DEADBOLT BY COPPER CREEEK SERIES E MODEL D82410.
10AA	CGI CUSTOM 3 POINT LOCK 4503PL, CONSISTING OF (2) CGI CUSTOM END BOLTS (TOP & BOTTOM), ATTACHED WITH #10 X 3/4" PH SMS, (1) CGI CUSTOM INTERIOR LINKAGE MECHANISM, (1) DEADBOLT BY BALDWIN SERIES 8200, KWIKSET 780.
10B	REGENT COMMERCIAL 2222 THREE POINT LOCK MECHANISM WITH MORTISE LOCK.
10C	SINGLE POINT LOCK (1) DEADBOLT BY BALDWIN SERIES 8200.
10CC	SINGLE POINT LOCK (1) DEADBOLT BY COPPER CREEK SERIES D82410.
10D	DOR-O-MATIC SERIES 1690 TOUCHBAR PANIC EXIT DEVICE WITH CONCEALED VERTICAL ROD SEE SHEET 5.
10E	JACKSON 20 SERIES PANIC EXIT WITH 2085/2086 CONCEALED VERTICAL ROD EXIT DEVICE SEE SHEET 5.
10F	CGI CUSTOM SURFACE MOUNTED SLIDE BOLTS WITH CGI END BOLTS AT ACTIVE LEAF (AT TOP & BOTTOM) WITH BALDWIN SERIES 8200 DEAD BOLT.

11	HAGER 4 1/2" X 4" HINGE IN SOLID BRASS OR STAINLESS STEEL CGI 4-1/2" X 4" HINGE IN ALUMINUM SECURED WITH (8) #12-24 X 1/2" F.H. M.S. (3 PER PANEL UP TO 7'-6 3/4" HIGH) (4 PER PANEL OVER 7'-6 3/4")
12	CGI FLUSHBOLT AT TOP & BOTTOM OF INACTIVE LEAF, HOUSING ATTACHED TO PANEL STILE WITH #10 X 3/4" PH SMS, ACTIVATOR ATTACHED WITH #8 X 1/2" PH SMS.
13	SEE SHEET 3 FOR GLAZING OPTIONS
14	SILICONES:GE-1200, DOW 791, 899, 983, OR 995
17	1/2" X 1/2" CONTINUOUS CLOSED CELL FOAM TAPE WITH ONE SIDE ADHESIVE
18	PLASTIC WEEP BAFFLE
19	7/8" X 5" X 1/8" THK. CONTINUOUS ALUMINUM SILL ANGLE ADAPTER

EXTRUSION LIST: 500A, 501, 502, 503, 504, 507, 509, 510, 514, 515, 519, 539, & 540 ALL EXTRUSIONS ARE 6063-T6.
375, 396, 505, 508, 511 EXTRUSIONS ARE 6063-T5.

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By Ishag I. Chande
Miami-Dade Product Control

Material	Min. F _y	Min. F _u
#14 Steel Screw, Gr 5	81 ksi	105 ksi
1/4" Elco UltraCon	155 ksi	177 ksi
1/4" DeWalt UltraCon+	148 ksi	164 ksi
5/16" Elco UltraCon	155 ksi	177 ksi
5/16" DeWalt UltraCon+	155 ksi	177 ksi
6063-T5 Aluminum	16 ksi	22 ksi
A36 Steel	36 ksi	58 ksi
Gr. 33 Steel Stud	33 ksi	45 ksi

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Miami-Dade Product Control

Revision:

ADDED BACKBEDDING
TYPES - JR - 6/11/20

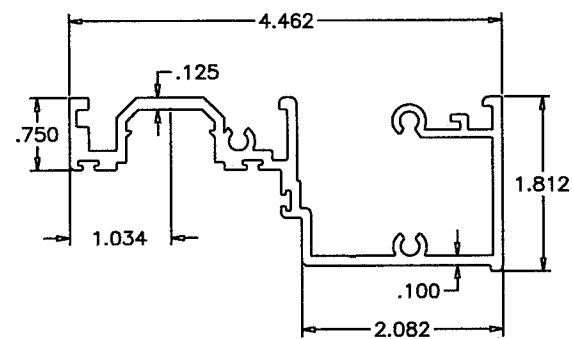
PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296
06/12/2020
J ROSOWSKI
450FD1-NOA
A

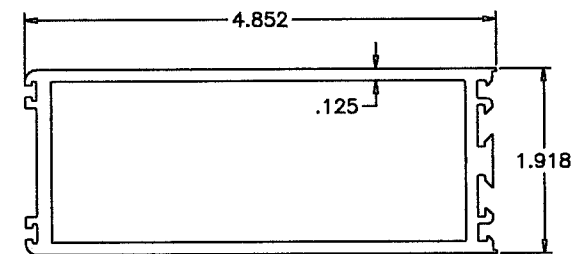
Impact Resistant
Windows & Doors
WE'RE STRONGER™
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

450 ALUM. FRENCH DOOR - GLAZED & OS (LM)
BILL OF MATERIALS
FD450 OUTSWING
6 OF 17
NTS
Scale

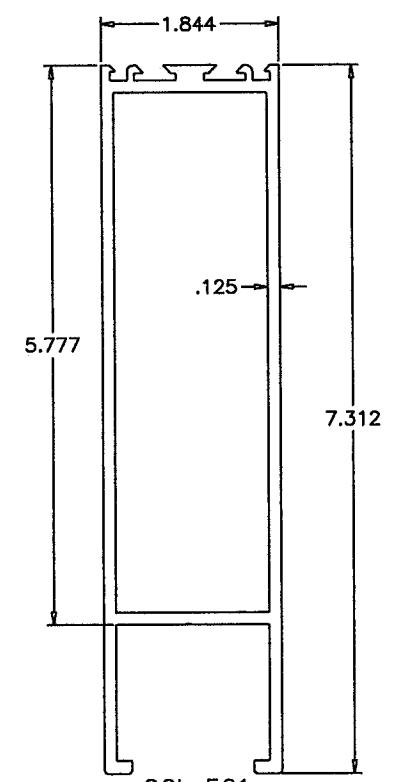
ANTHONY LYNN MILLER
LICENSE
No. 58705
92
6/12/20
STATE OF
FLORIDA
A. LYNN MILLER, P.E.
P.E.# 58705



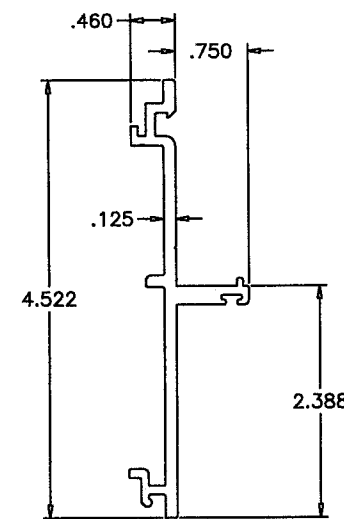
CGI-507
DOOR FRAME HEAD/SILL



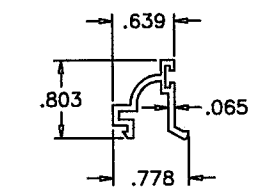
CGI-502
JAMB/LOCK/SIDELITE STILE



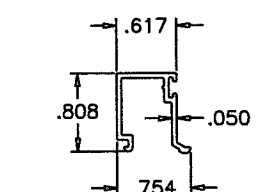
CGI-501
BOTTOM RAIL



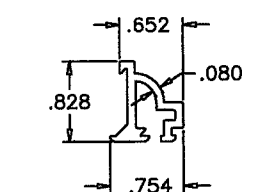
CGI-510
SIDELITE MULLION



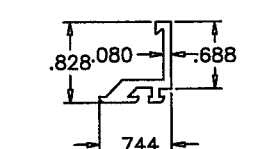
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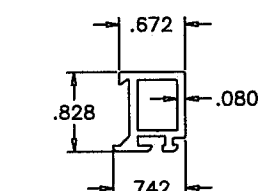
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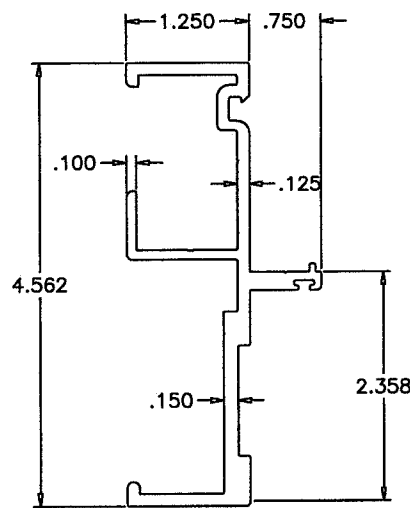
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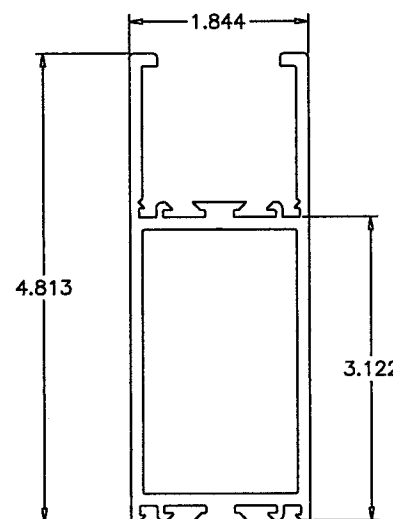
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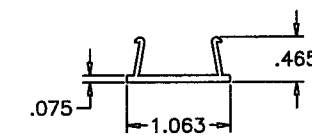
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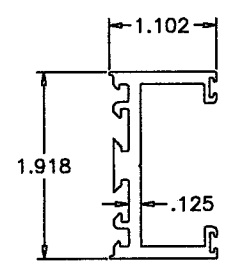
CGI-509
FRAME JAMB/MULLION



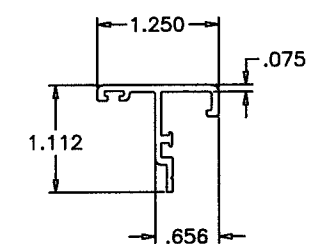
CGI-500A
TOP RAIL



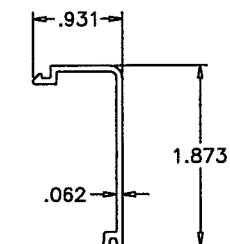
CGI-508
FRAME COVER



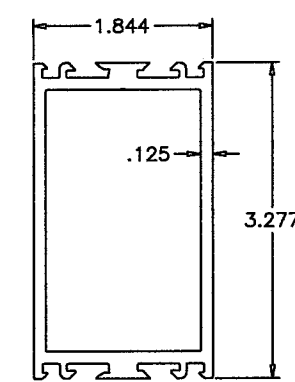
CGI-503
NARROW SIDELITE STILE



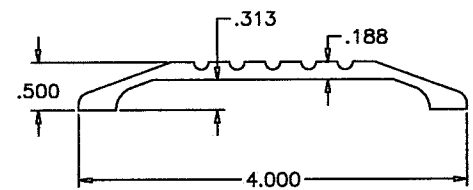
CGI-505
ASTRAGAL



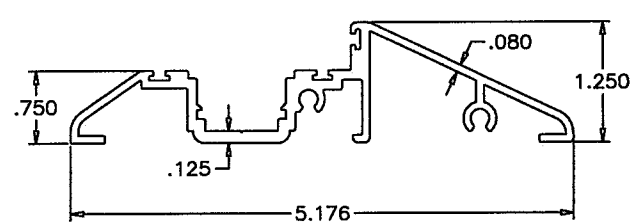
CGI-511
JAMB COVER



CGI-514
HORIZONTAL MUNTIN



CGI-540
COM. SADDLE/ADA THRESHOLD




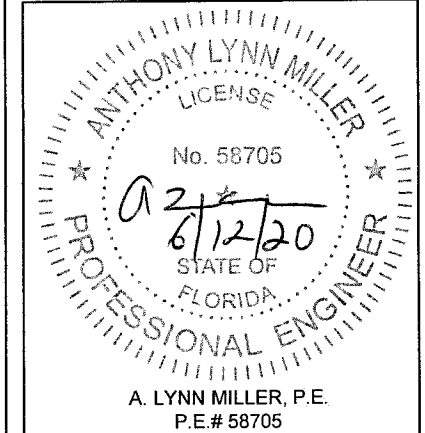
CGI-539
RES. SADDLE THRESHOLDS

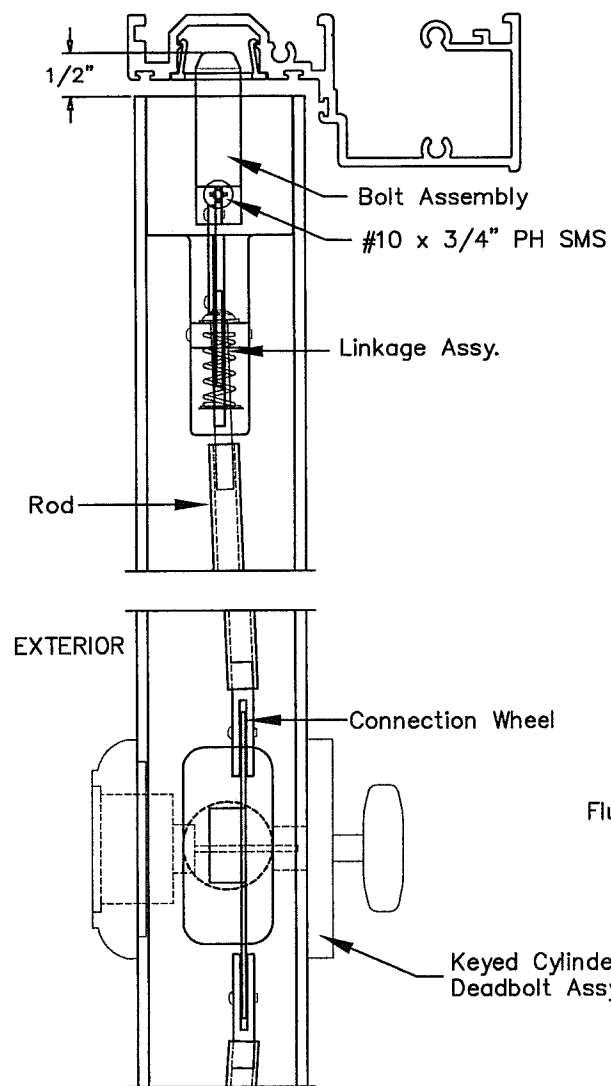
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Expiration Date 11/09/2021
By Ishaq I. Chande
Miami-Dade Product Control

**GLAZING STOP
OPTIONS**

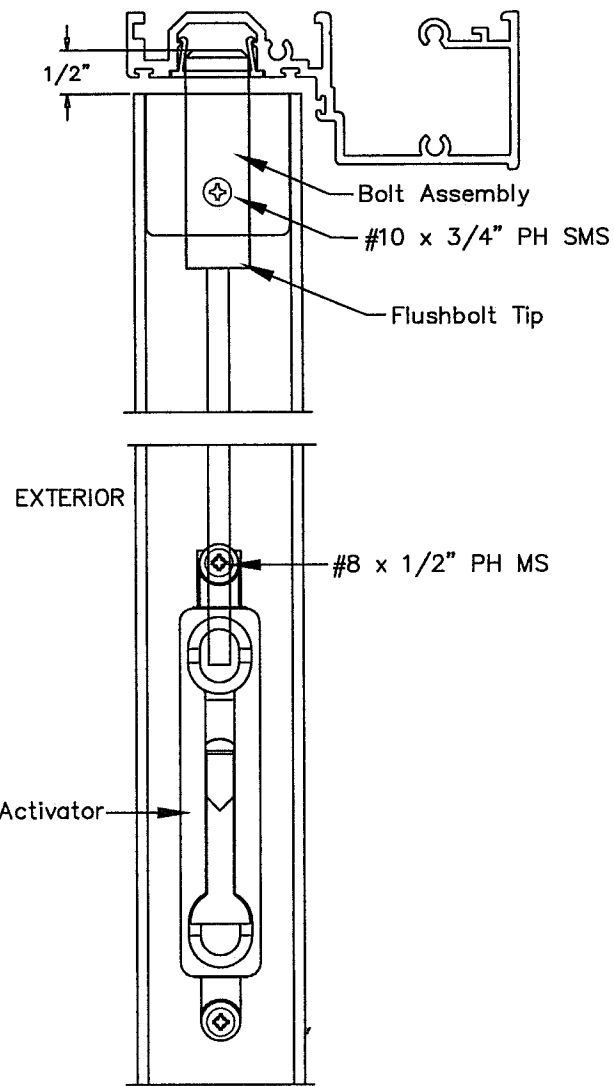
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Miami-Dade Product Control

 Impact Resistant Windows & Doors WE'RE STRONGER™	CGI WINDOWS AND DOORS, INC. 3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296			
		450 ALUM. FRENCH DOOR - GLAZED & OS (LM)		Date	06/12/2020		
Title		Desc.		By		J ROSOWSKI	
Series		FD450 OUTSWING		Scale	NTS	Sheet	7 OF 17
				DWG	No.	450FD1-NOA	
				Drawn		Rev. A	

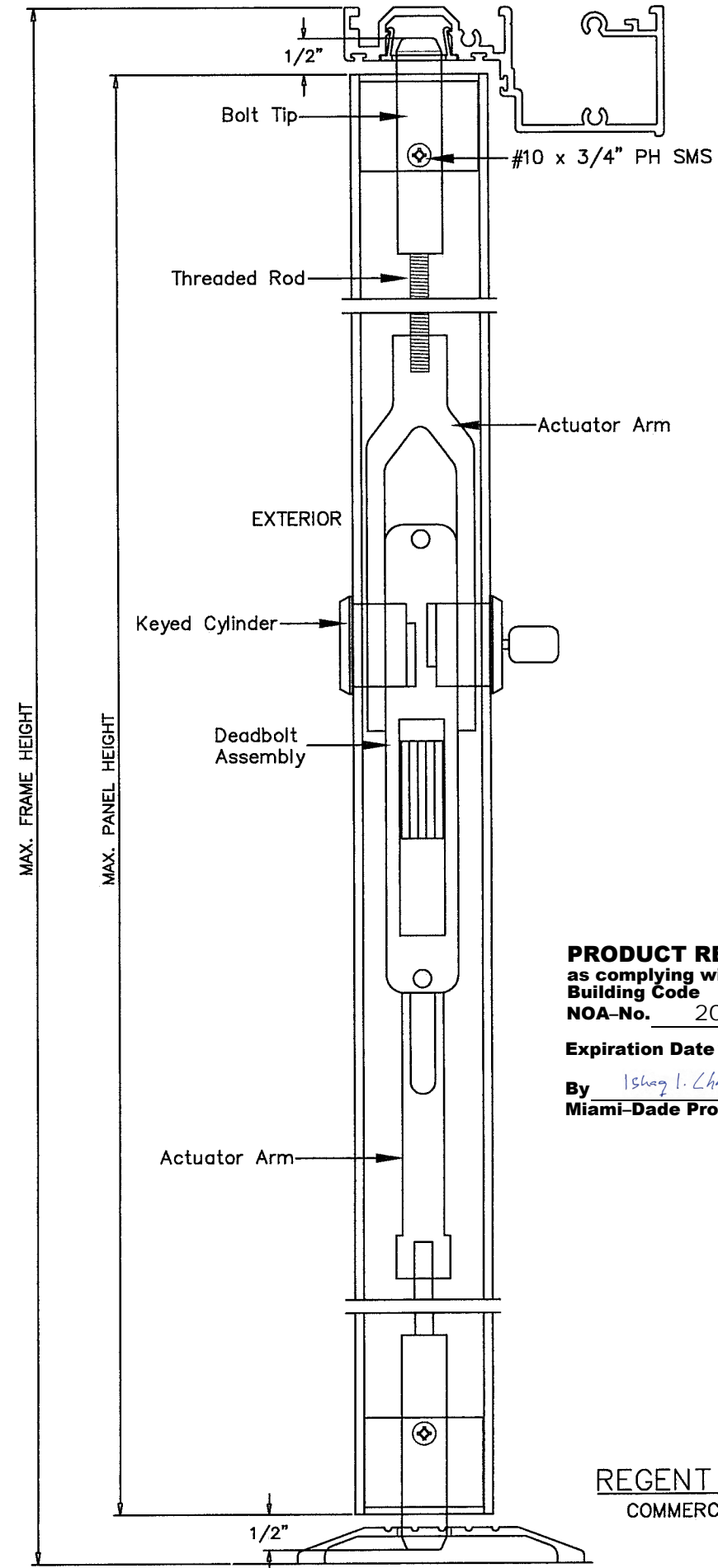




**CGI CUSTOM
3-POINT LOCK**
TOP SECTION SHOWN
(BOTTOM SIMILAR)



**12 FLUSHBOLTS
(INACTIVE PANEL)**
TOP SECTION SHOWN
(BOTTOM SIMILAR)



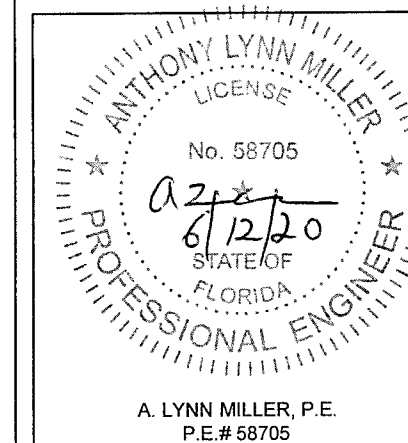
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Expiration Date 11/09/2021
By Ishaq I. Chande
Miami-Dade Product Control

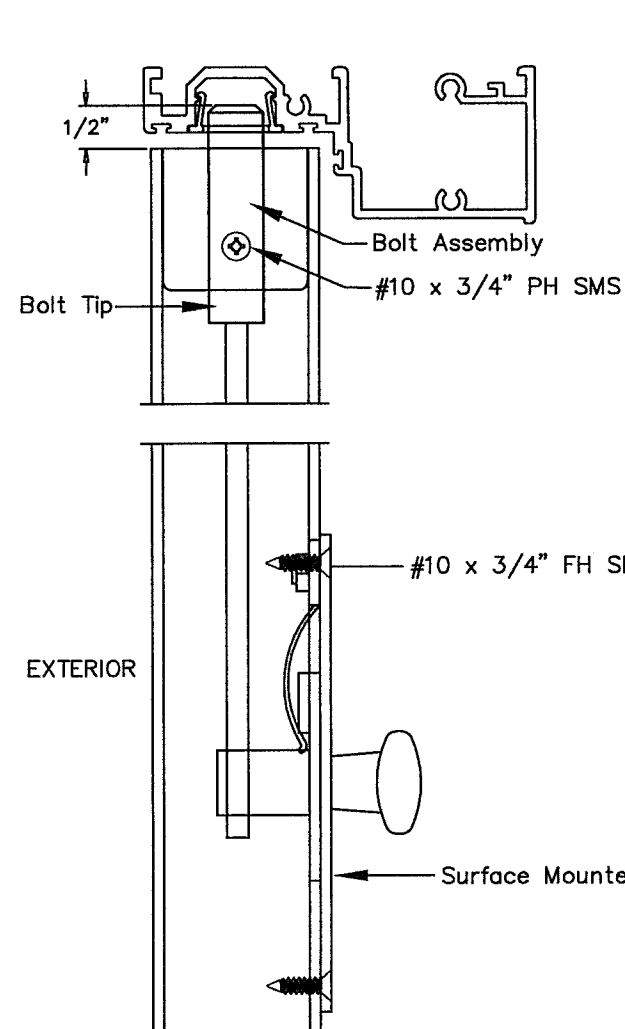
**REGENT 3 POINT
COMMERCIAL LOCK**

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0927.03
Expiration Date 02/27/2023
By Ishaq I. Chande
Miami-Dade Product Control

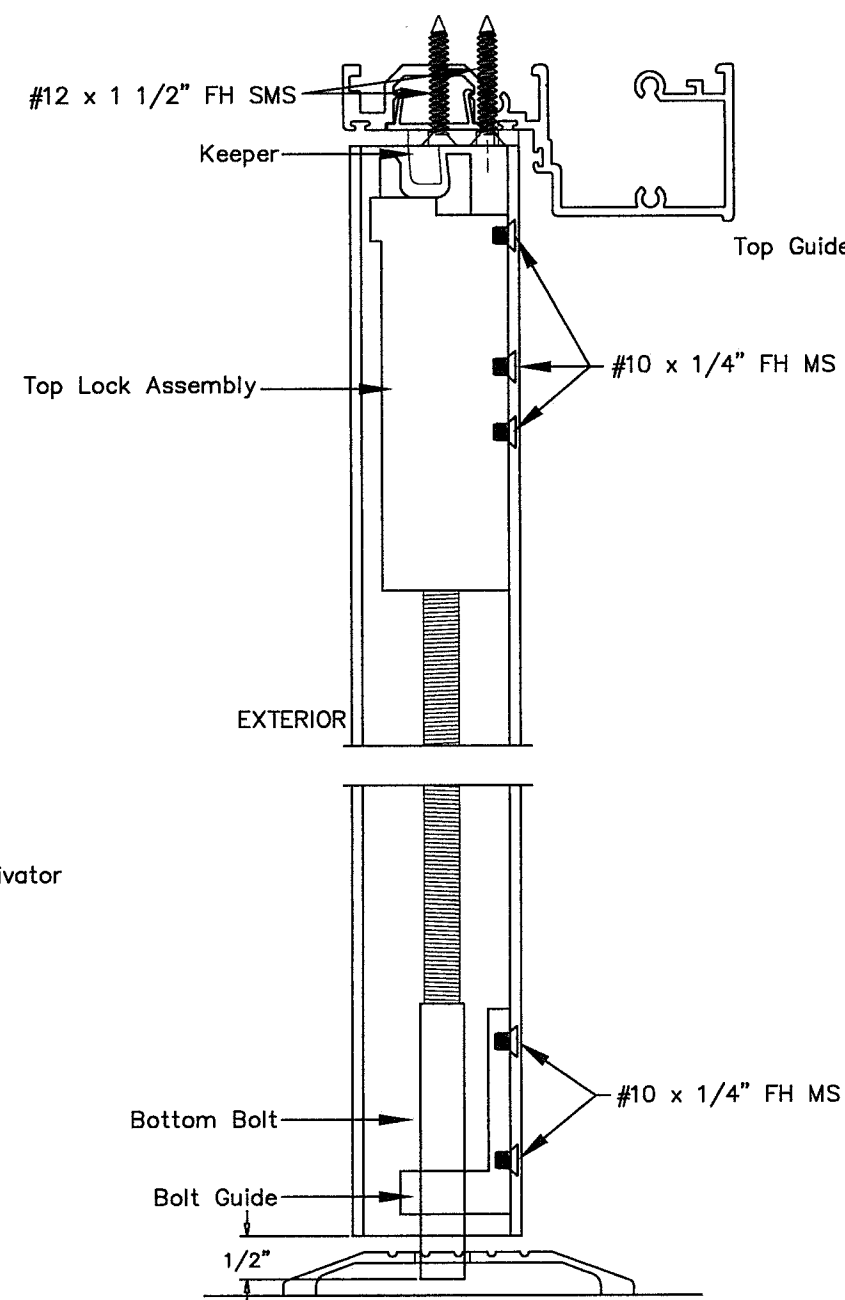
Revision:

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	06/12/2020	By	J ROSOWSKI	DWG No.	450FD1-NOA	Rev.	A
		Drawn				No.	8 OF 17	Sheet	
Impact Resistant Windows & Doors WE'RE STRONGER™ CGI WINDOWS AND DOORS, INC. 3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590	450 ALUM. FRENCH DOOR - GLAZED & OS (LM)	HARDWARE DETAILS 1	FD450 OUTSWING	Scale	NTS	Series Desc.	Title	Sheet	8 OF 17

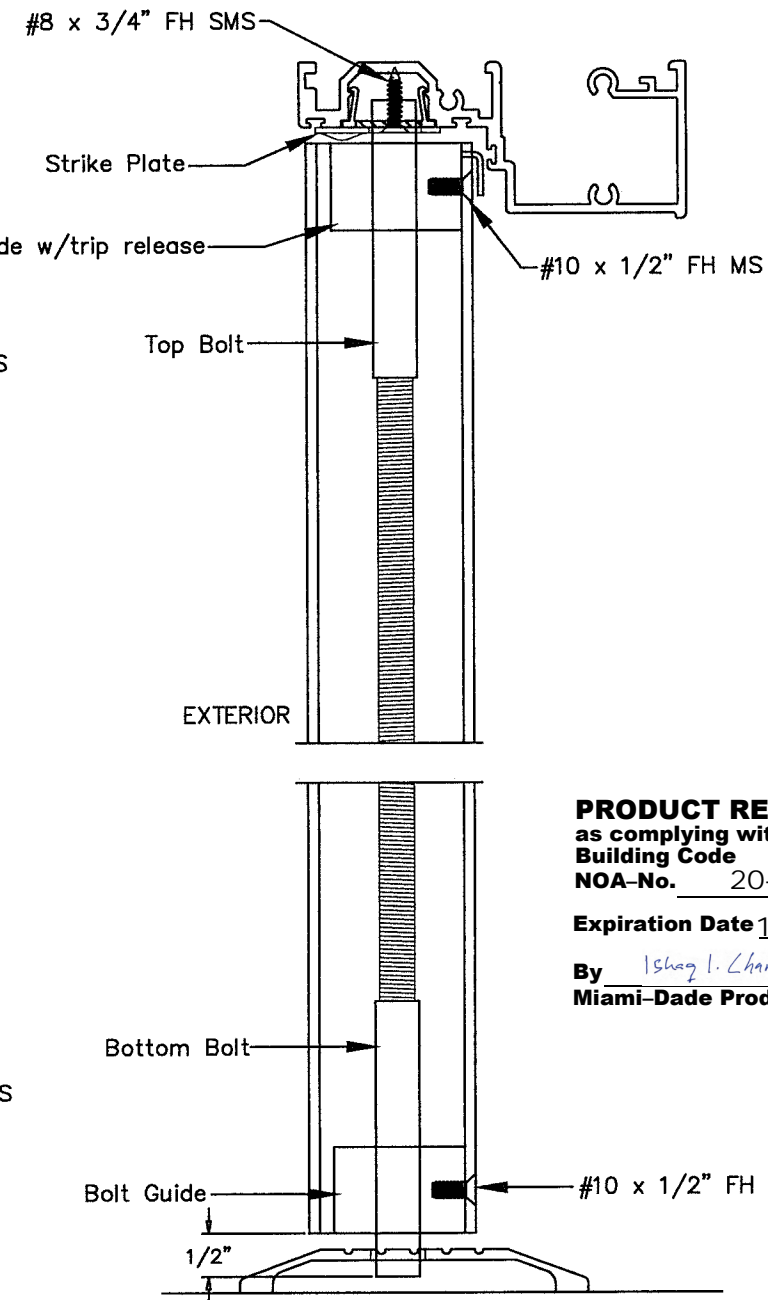




**SURFACE MOUNT SLIDE
BOLT WITH BALDWIN
DEAD BOLT**
TOP SECTION SHOWN
(BOTTOM SIMILAR)



DOR-O-MATIC 1690



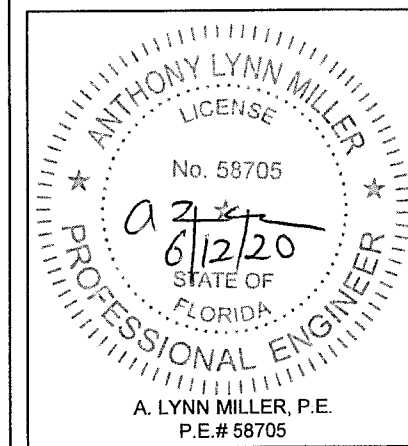
JACKSON 2086I

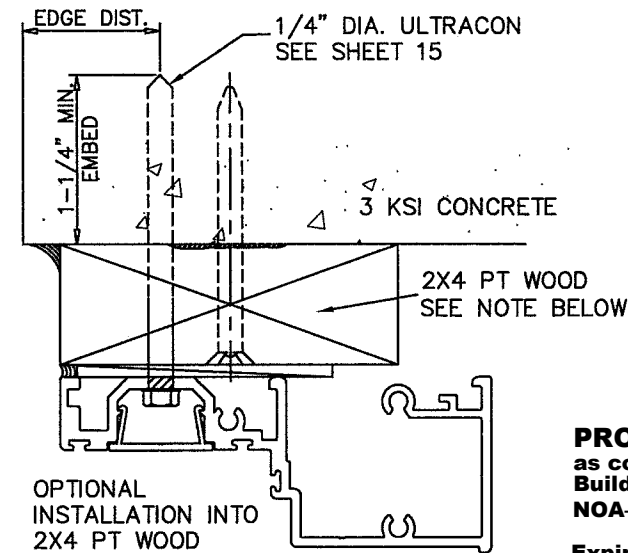
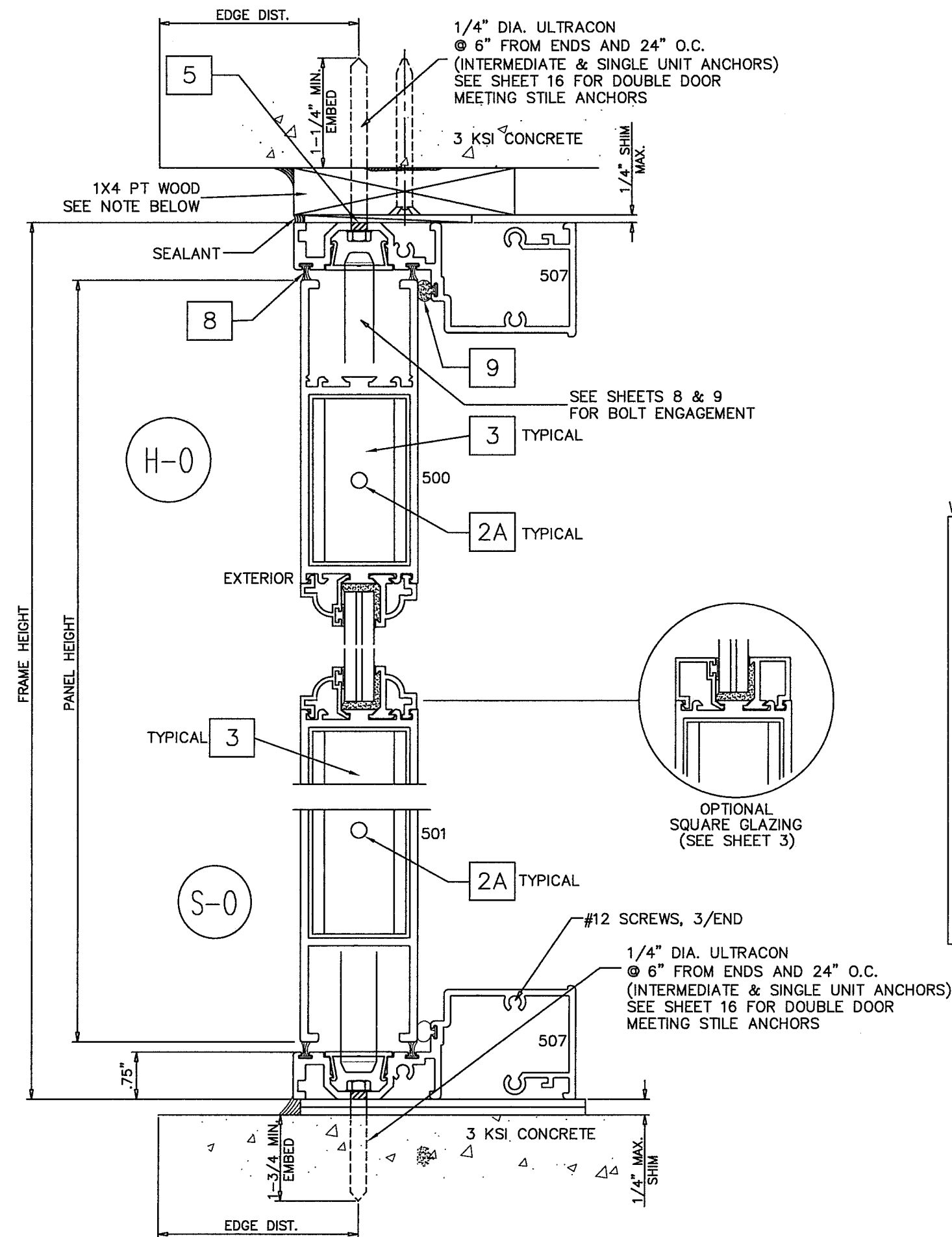
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0619.04
Expiration Date 11/09/2021
By Ishag I. Chande
Miami-Dade Product Control

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Revision:

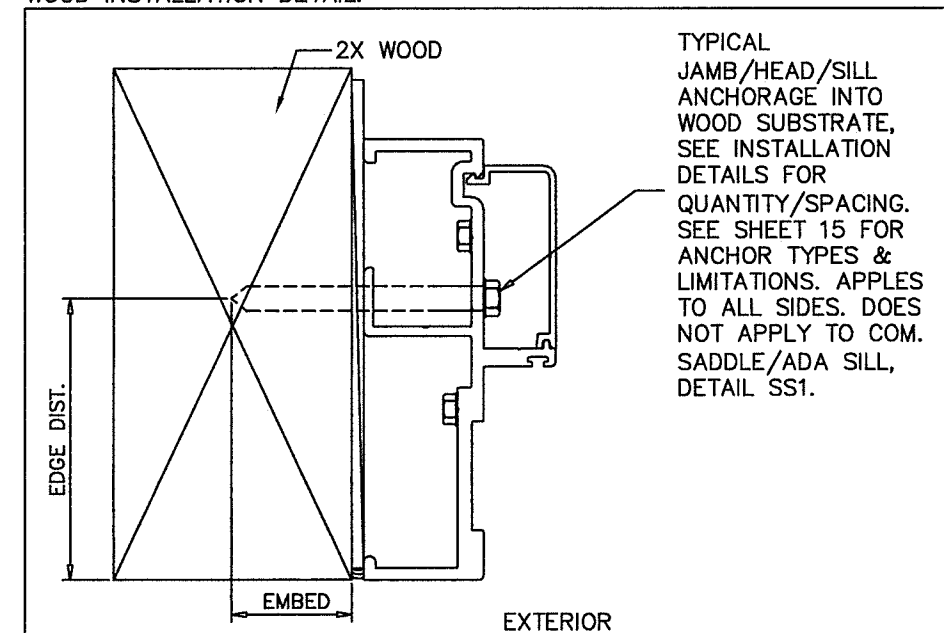
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	06/12/2020	By	J ROSOWSKI	DWG No.	450FD1-NOA	Rev.	A
Impact Resistant Windows & Doors WE'RE STRONGER™ CGI WINDOWS AND DOORS, INC. 3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590	450 ALUM. FRENCH DOOR - GLAZED & OS (LM)	Sheet	9 OF 17	Scale	NTS	Series	Desc.	Title	FD450 OUTSWING





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Miami-Dade Product Control

WOOD INSTALLATION DETAIL:




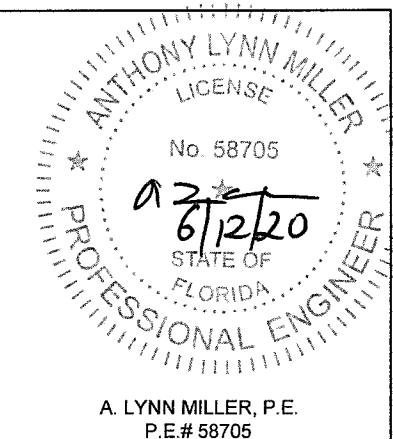
OPTIONAL INSTALLATION
DIRECTLY INTO 2X WOOD

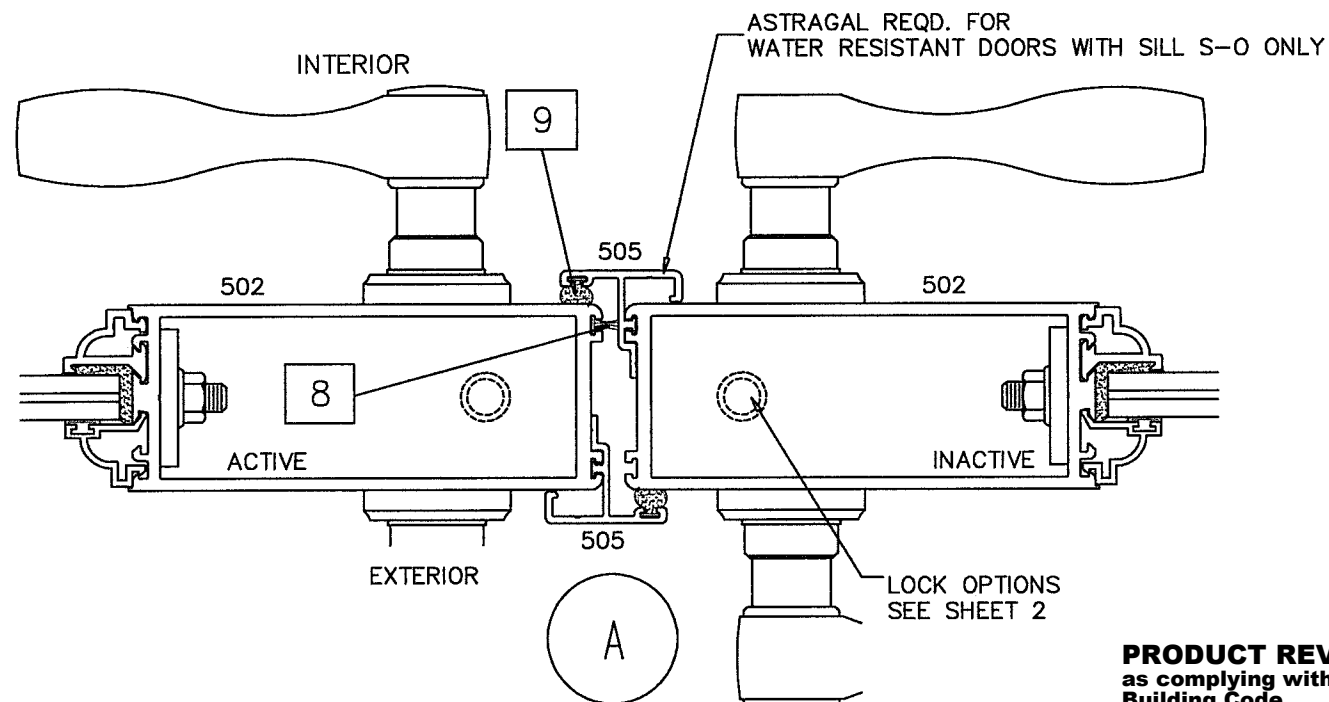
- NOTES:**
- 1) ALL JAMB ANCHOR CONDITIONS SHOWN ON SHEETS 10, 12 AND 13 MAY BE DIRECTLY TO MASONRY WITH 1/4" MAX. SHIM SPACE WITHOUT VARIATION IN CAPACITY.
 - 2) 1X OR 2X WOOD BUCKS NOT BY CGI MUST BE PROPERLY SECURED AND MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM.

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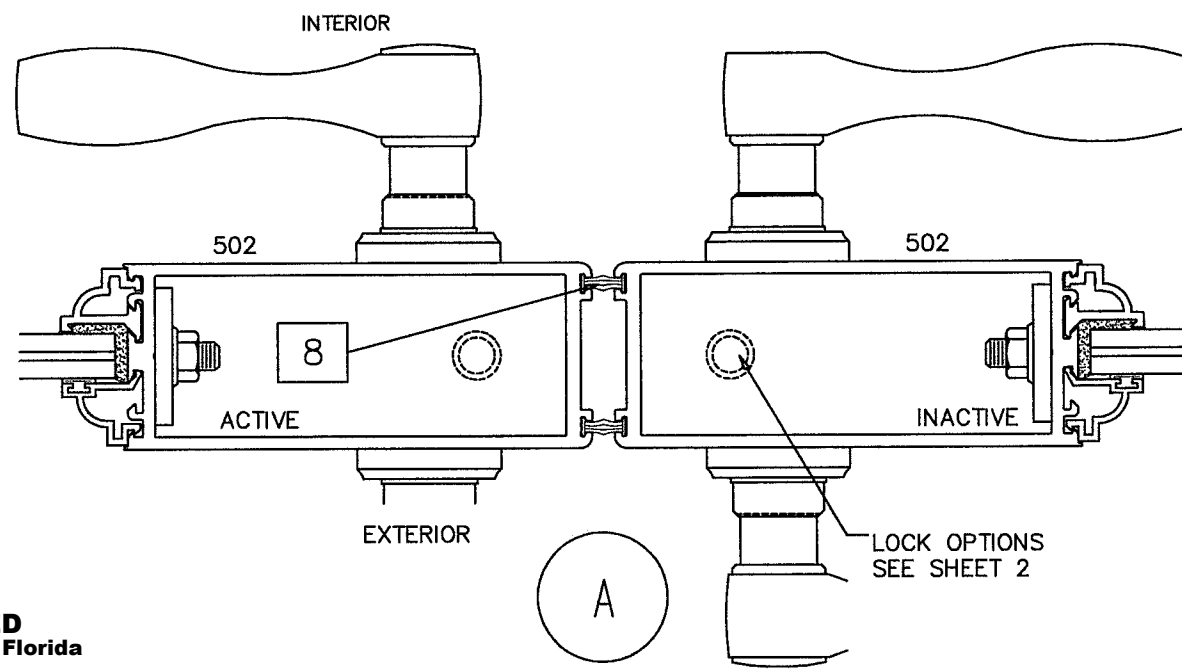
Revision: ADDED WOOD
INSTALLATION DETAIL - JR -
6/11/20

 Impact Resistant Windows & Doors WE'RE STRONGER™	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296				
	CGI WINDOWS AND DOORS, INC. 3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590		450 ALUM. FRENCH DOOR - GLAZED & OS (LM)				
	INSTALLATION DETAILS 1		Date	06/12/2020			
	Series	Desc.	By	Drawn			
FD450 OUTSWING	NTS	Sheet	10 OF 17	DWG No.	450FD1-NOA	Rev.	A



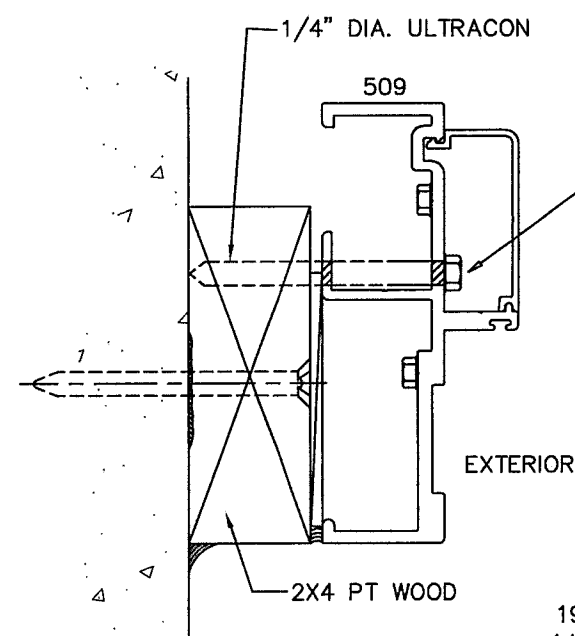


LOCK STILES WITH WATER RESISTANCE



LOCK STILES WITHOUT WATER RESISTANCE

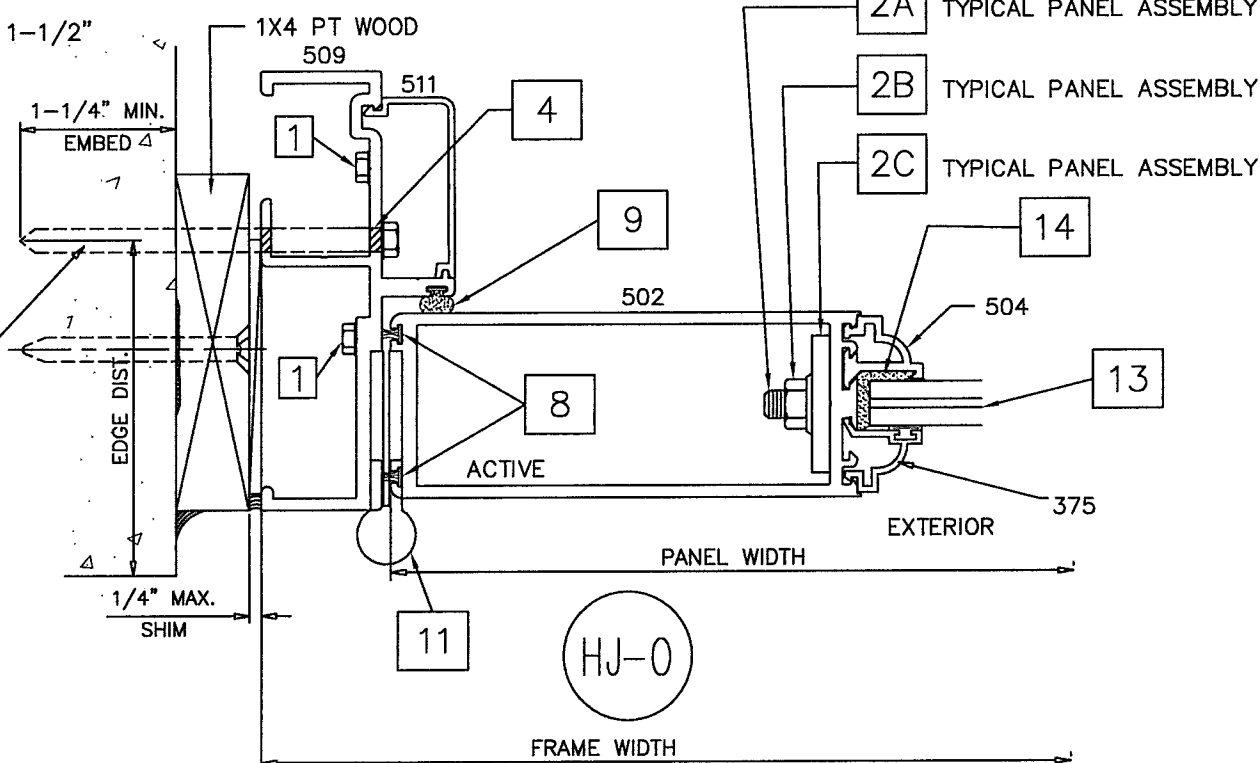
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By Ishag I. Chande
Miami-Dade Product Control



OPTIONAL INSTALLATION
INTO 2X4 PT WOOD
SEE NOTE BELOW

TYPICAL JAMB ANCHORS
1/4" DIA. ULTRACON
@ 6" FROM ENDS AND
19-3/8" O.C. FOR LOADS UPTO 70 PSF
14-1/2" O.C. FOR LOADS ABOVE 70 PSF
2-1/2" EDGE DIST.
EMBEDMENT INTO 2BY WOOD BUCK = 1-1/2"

TYPICAL JAMB ANCHORS
1/4" DIA. ULTRACON
@ 6" FROM ENDS AND
19-3/8" O.C. FOR LOADS UPTO 70 PSF
14-1/2" O.C. FOR LOADS UPTO 110 PSF
12" O.C. FOR LOADS ABOVE 110 PSF
(SEE SHEET 15)
2-1/2" MIN. EDGE DIST.



NOTE:
1X OR 2X WOOD BUCKS NOT BY CGI MUST BE
PROPERLY SECURED AND MUST SUSTAIN
LOADS IMPOSED BY GLAZING SYSTEM.

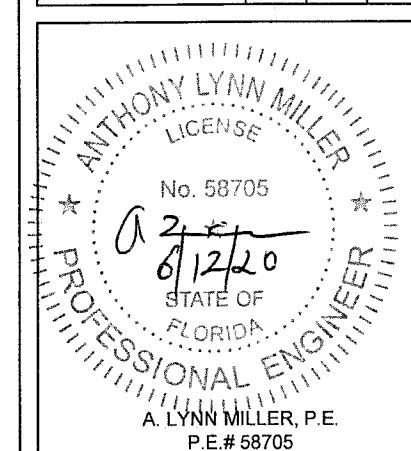
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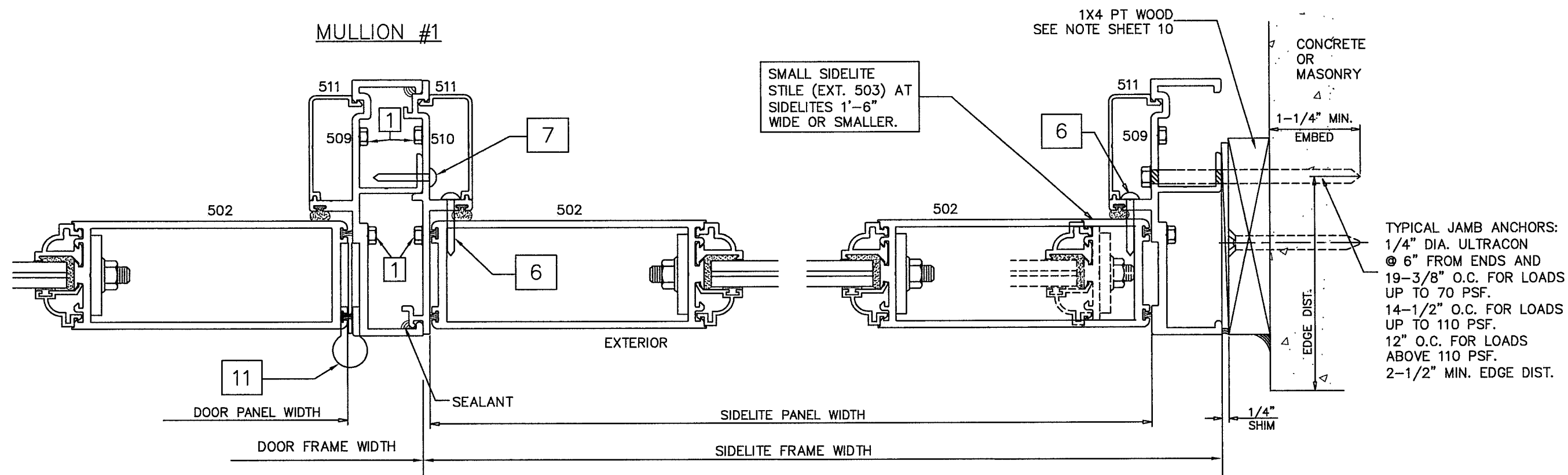
Expiration Date 02/27/2023

By Ishag I. Chande
Miami-Dade Product Control

Revision:

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	06/12/2020	J ROSOWSKI	A
Impact Resistant Windows & Doors WE'RE STRONGER™ CGI WINDOWS AND DOORS, INC. 3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590	450 ALUM. FRENCH DOOR - GLAZED & OS (LM)	11 OF 17	NTS	FD450 OUTSWING
450 ALUM. FRENCH DOOR - GLAZED & OS (LM)	INSTALLATION DETAILS 2	11 OF 17	NTS	FD450 OUTSWING

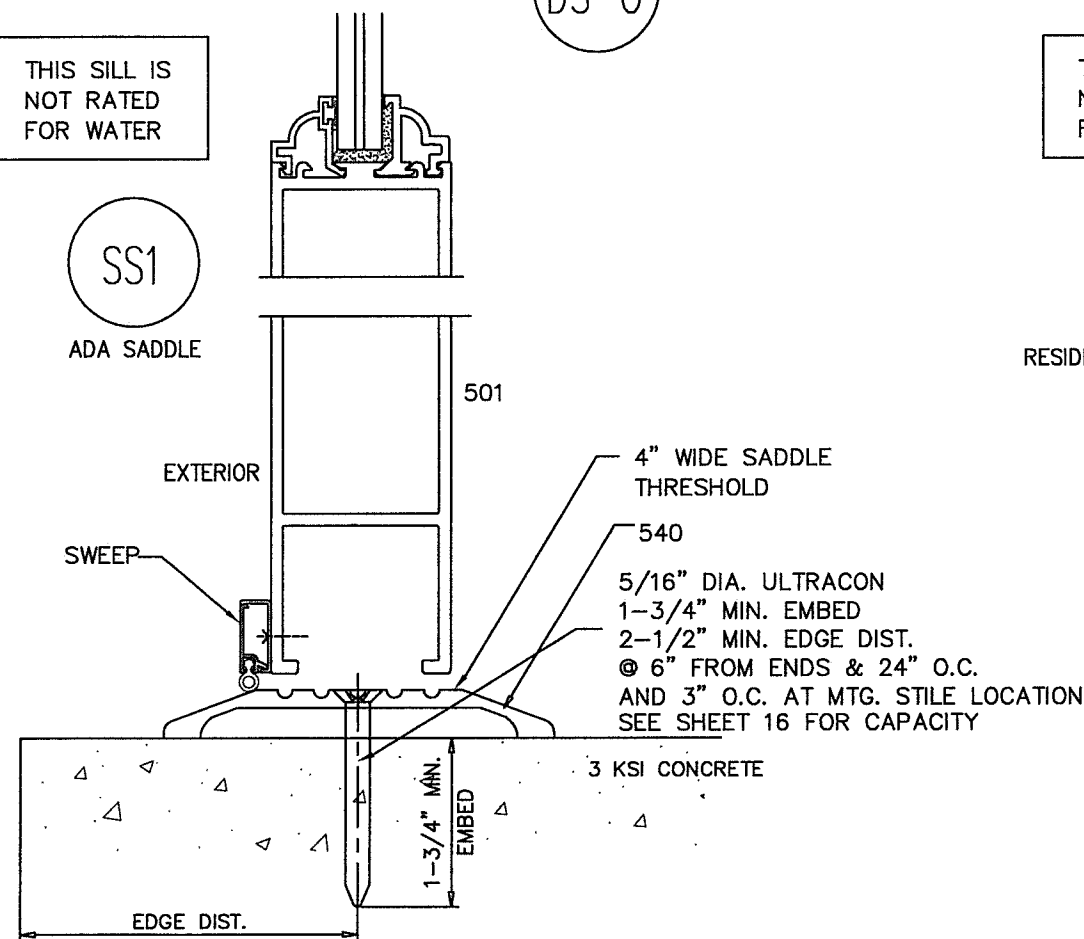




TYPICAL JAMB ANCHORS:
1/4" DIA. ULTRACON
@ 6" FROM ENDS AND
19-3/8" O.C. FOR LOADS
UP TO 70 PSF.
14-1/2" O.C. FOR LOADS
UP TO 110 PSF.
12" O.C. FOR LOADS
ABOVE 110 PSF.
2-1/2" MIN. EDGE DIST.

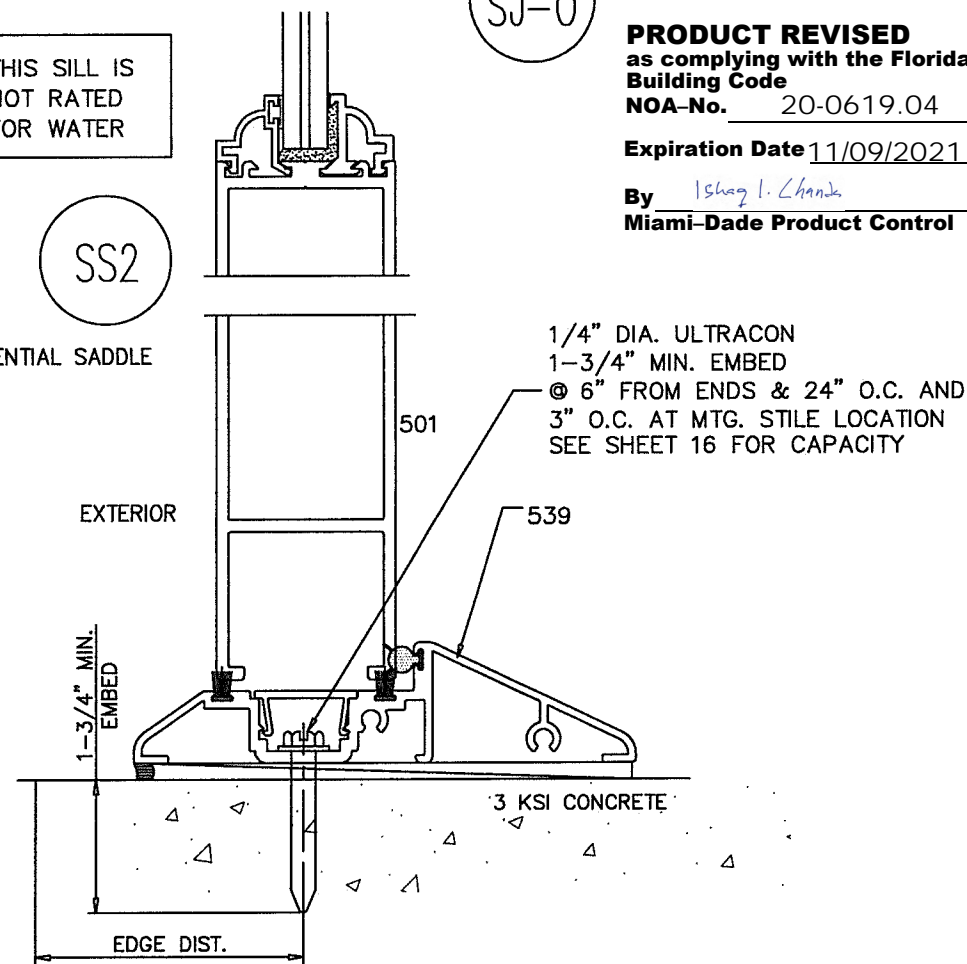
THIS SILL IS
NOT RATED
FOR WATER

SS1
ADA SADDLE

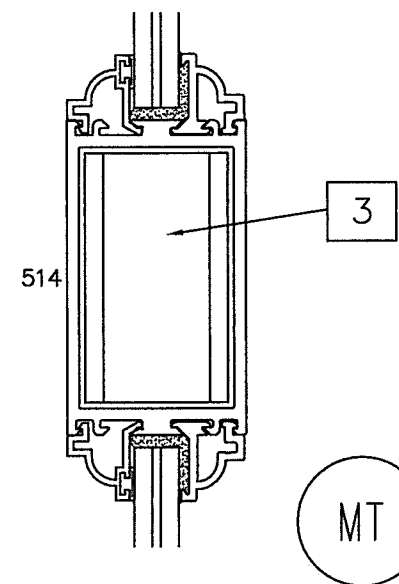


THIS SILL IS
NOT RATED
FOR WATER

SS2
RESIDENTIAL SADDLE



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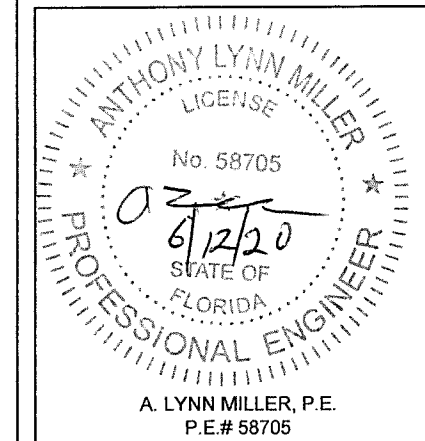
REFER TO SHEET 6 OF 17 FOR
TYPICAL BILL OF MATERIALS

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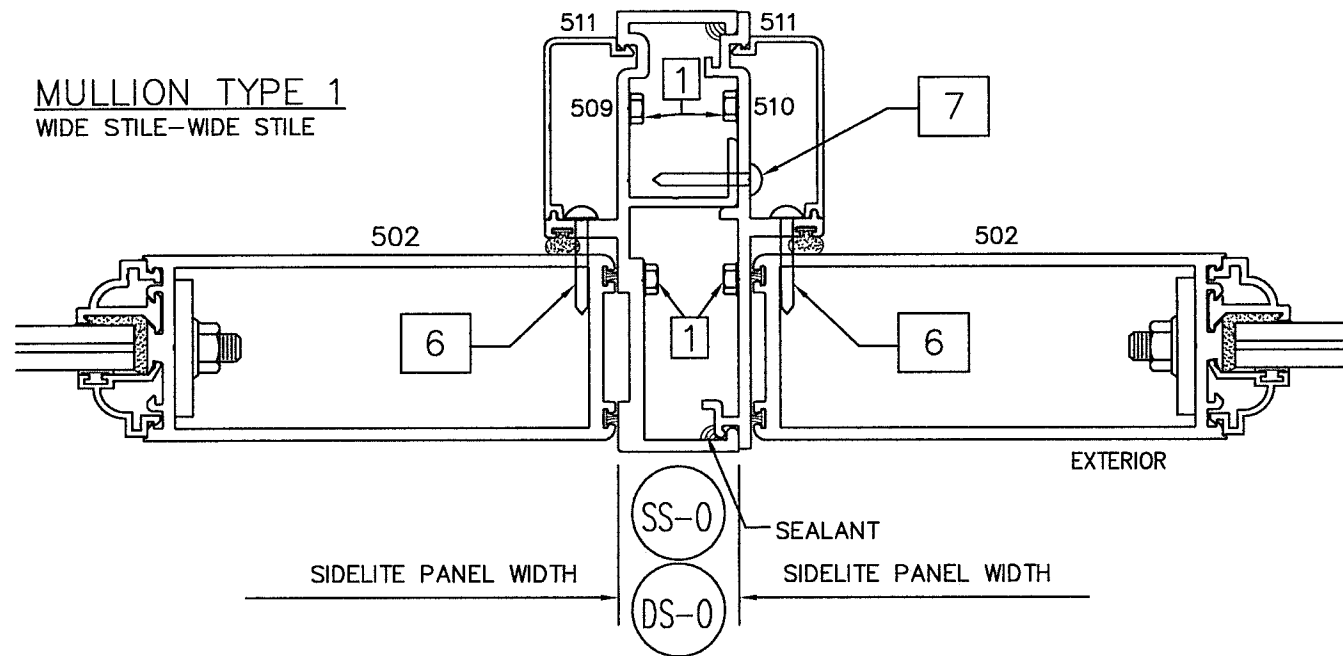
Expiration Date 02/27/2023

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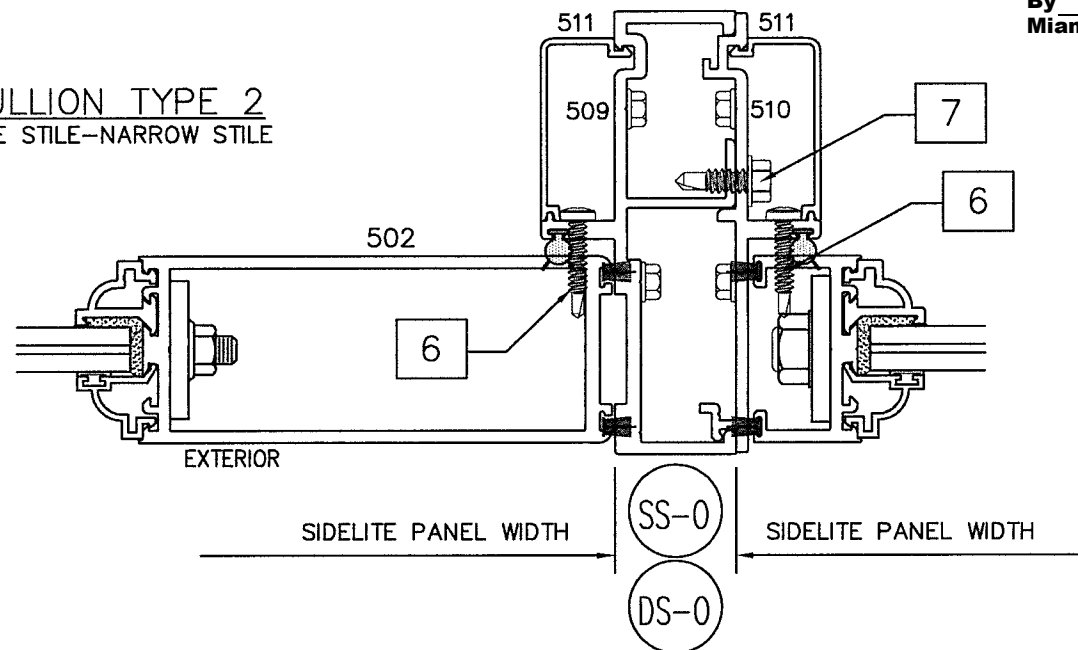
 Impact Resistant Windows & Doors WE'RE STRONGER™ CGI WINDOWS AND DOORS, INC. 3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296	
	450 ALUM. FRENCH DOOR - GLAZED & OS (LM)		Date	06/12/2020
	INSTALLATION DETAILS 3		Drawn By	J ROSOWSKI
	Series	Desc.	Scale	Sheet
	FD450 OUTSWING	NTS	12 OF 17	DWG No. 450FD1-NOA
		Rev. A		



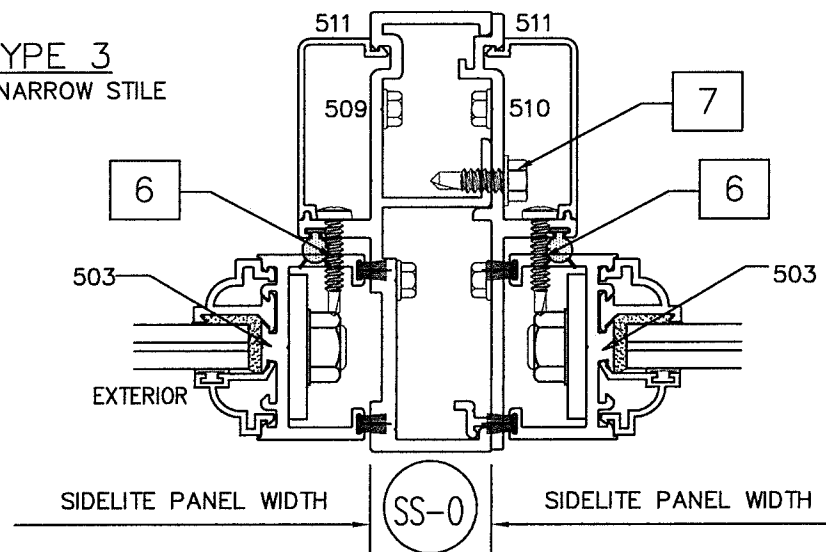
MULLION TYPE 1
WIDE STILE-WIDE STILE



MULLION TYPE 2
WIDE STILE-NARROW STILE



MULLION TYPE 3
NARROW STILE-NARROW STILE



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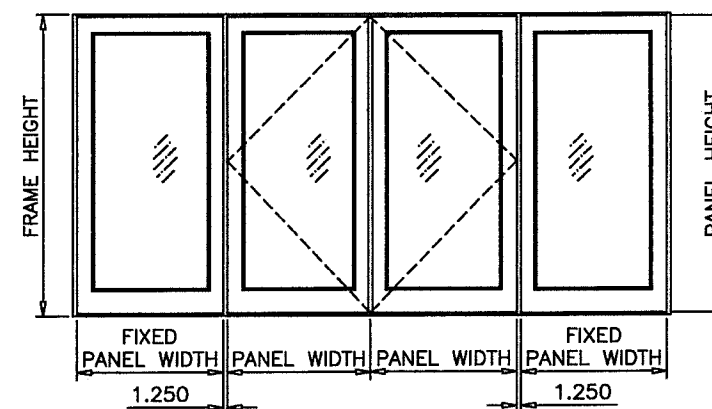
NOTES:
1) LOWER DESIGN LOAD FROM PANEL
PERFORMANCE CHART ON SHEET 14
OR MULLION PERFORMANCE CHART
ABOVE SHALL CONTROL.

2) REFER TO SHEET 6 OF 17 FOR
TYPICAL BILL OF MATERIALS.

MULLION PERFORMANCE CHART
DESIGN LOAD CAPACITY - PSF

NOMINAL DIMS.		MULL TYPE 1		MULL TYPE 2		MULL TYPE 3	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
1/6	82-3/4"	100.0	110.0	100.0	110.0	100.0	110.0
2/0		100.0	110.0	100.0	110.0	100.0	110.0
2/6		100.0	110.0	100.0	110.0	-	-
3/0		100.0	110.0	100.0	110.0	-	-
3/6		94.2	94.2	70.0	70.0	-	-
1/6	84-3/4"	100.0	110.0	100.0	110.0	100.0	110.0
2/0		100.0	110.0	100.0	110.0	100.0	110.0
2/6		100.0	110.0	100.0	110.0	-	-
3/0		100.0	110.0	100.0	110.0	-	-
3/6		94.2	94.2	-	-	-	-
1/6	90-3/4"	100.0	110.0	100.0	110.0	100.0	110.0
2/0		100.0	110.0	100.0	110.0	70.0	70.0
2/6		100.0	110.0	100.0	110.0	-	-
3/0		100.0	110.0	70.0	70.0	-	-
3/6		94.2	94.2	-	-	-	-
1/6	96-3/4"	100.0	110.0	100.0	110.0	100.0	110.0
2/0		100.0	110.0	100.0	110.0	70.0	70.0
2/6		100.0	110.0	100.0	110.0	-	-
3/0		100.0	110.0	-	-	-	-
3/6		59.9	59.9	-	-	-	-
1/6	102-3/4"	100.0	110.0	100.0	110.0	100.0	110.0
2/0		100.0	110.0	100.0	110.0	-	-
2/6		100.0	110.0	100.0	100.4	-	-
3/0		98.9	98.9	-	-	-	-
3/6		59.9	59.9	-	-	-	-
1/6	108-3/4"	100.0	110.0	100.0	110.0	100.0	110.0
2/0		100.0	110.0	100.0	104.1	-	-
2/6		98.1	98.1	70.0	70.0	-	-
3/0		82.9	82.9	-	-	-	-
1/6	114-3/4"	70.0	70.0	70.0	70.0	100.0	110.0
2/0		70.0	70.0	70.0	70.0	-	-
2/6		70.0	70.0	-	-	-	-
3/0		70.0	70.0	-	-	-	-
1/6	120-3/4"	70.0	70.0	70.0	70.0	70.0	70.0
2/0		70.0	70.0	70.0	70.0	-	-
2/6		70.0	70.0	-	-	-	-
3/0		59.9	59.9	-	-	-	-

$$\text{WIDTH (W)} = \frac{\text{DOOR PANEL} + \text{FIXED PANEL}}{2} + 1.250$$



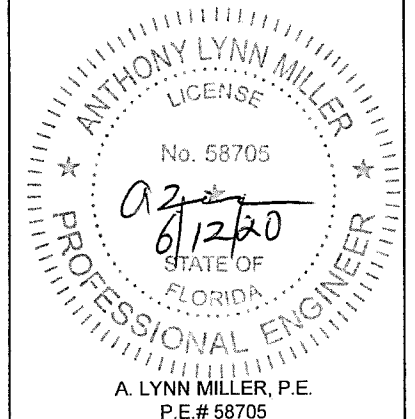
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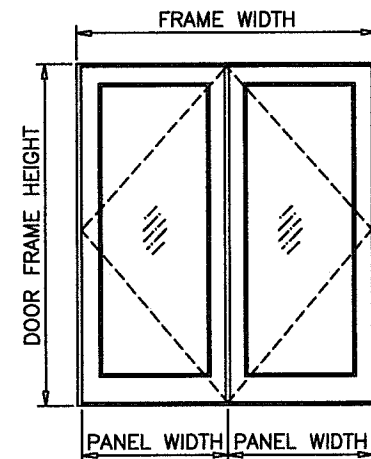
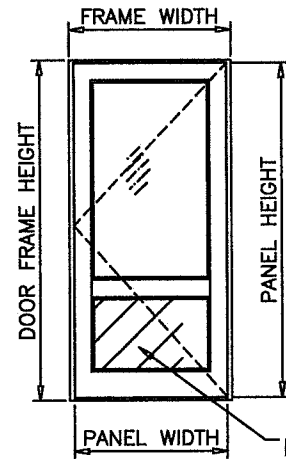
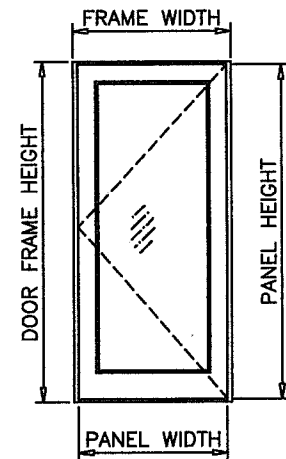
Expiration Date 02/27/2023

By Ishag I. Chande
Miami-Dade Product Control

Revision:

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	06/12/2020	J ROSOWSKI	A
Impact Resistant Windows & Doors WE'RE STRONGER™ CGI WINDOWS AND DOORS, INC. 3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590	450 ALUM. FRENCH DOOR - GLAZED & OS (LM)	MULLION X-SECTION AND DPS	FD450 OUTSWING	13 OF 17
450 ALUM. FRENCH DOOR - GLAZED & OS (LM)	MULLION X-SECTION AND DPS	FD450 OUTSWING	13 OF 17	13 OF 17





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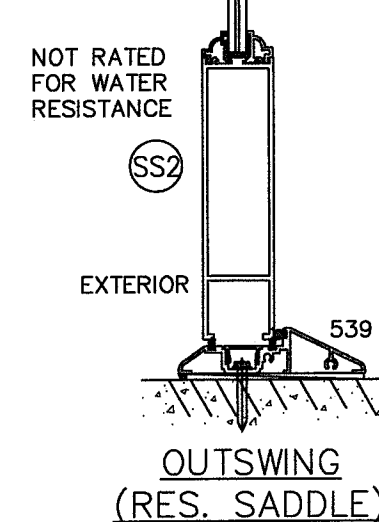
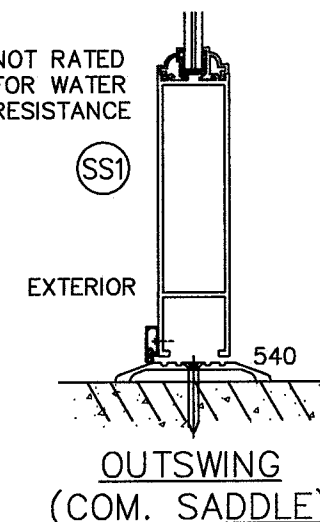
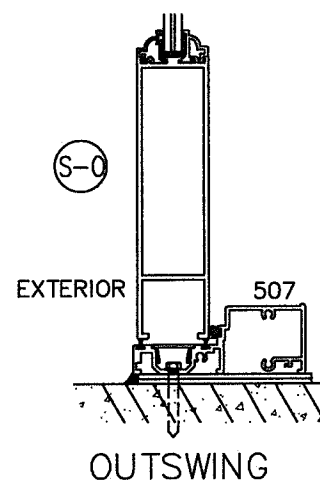
NOTES:

- 1) FOR SINGLE OR DOUBLE LEAF DOORS AND SINGLE SIDELITES CAPACITY SEE CHART ON THIS SHEET.
- 2) SEE BELOW FOR THRESHOLD TYPES.
- 3) SEE SHEET 2 FOR LOCK CAPACITIES FOR SINGLE AND DOUBLE DOORS.
- 4) SEE SHEET 13 FOR MULLION TYPES AND DESIGN LOAD CAPACITY.
- 5) SEE CHART ON SHEET 15 FOR MULLION ANCHORS CAPACITY.
- 6) SEE CHART ON SHEET 16 FOR MTG. STILE ANCHORS AT DOUBLE DOOR.
- 7) LOWEST VALUE FROM THESE CHARTS WILL APPLY TO ENTIRE ASSEMBLY.
- 8) GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT.

PANEL PERFORMANCE CHART FOR SINGLE & DOUBLE DOORS & SINGLE SIDELITES (NARROW STILE SIDELITES LIMITED TO 18" OR LESS) DESIGN LOAD CAPACITY - PSF									
NOMINAL DIMS.			GLASS TYPE 'A' 7/16" COMPOSITE PANELS		GLASS TYPE 'A1'		GLASS TYPES 'B' & 'B1'		
FRAME WIDTH (X)	FRAME WIDTH (XX)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	
26-9/16"	50-1/2"	82-3/4"	100.0	110.0	70.0	70.0	90.0	90.0	
32-9/16"	62-1/2"		100.0	110.0	70.0	70.0	90.0	90.0	
38-9/16"	74-1/2"		100.0	110.0	70.0	70.0	90.0	90.0	
44-9/16"	86-1/2"		94.2	94.2	70.0	70.0	90.0	90.0	
26-9/16"	50-1/2"	84-3/4"	100.0	110.0	70.0	70.0	90.0	90.0	
32-9/16"	62-1/2"		100.0	110.0	70.0	70.0	90.0	90.0	
38-9/16"	74-1/2"		100.0	110.0	70.0	70.0	90.0	90.0	
44-9/16"	86-1/2"		94.2	94.2	70.0	70.0	90.0	90.0	
26-9/16"	50-1/2"	90-3/4"	100.0	110.0	70.0	70.0	90.0	90.0	
32-9/16"	62-1/2"		100.0	110.0	70.0	70.0	90.0	90.0	
38-9/16"	74-1/2"		100.0	110.0	70.0	70.0	90.0	90.0	
44-9/16"	86-1/2"		94.2	94.2	70.0	70.0	90.0	90.0	
26-9/16"	50-1/2"	96-3/4"	100.0	110.0	70.0	70.0	90.0	90.0	
32-9/16"	62-1/2"		100.0	110.0	70.0	70.0	90.0	90.0	
38-9/16"	74-1/2"		100.0	110.0	70.0	70.0	90.0	90.0	
44-9/16"	86-1/2"		59.9	59.9	59.9	59.9	-	-	
26-9/16"	50-1/2"	102-3/4"	100.0	110.0	70.0 *	70.0 *	-	-	
32-9/16"	62-1/2"		100.0	110.0	70.0 *	70.0 *	-	-	
38-9/16"	74-1/2"		100.0	110.0	70.0 *	70.0 *	-	-	
44-9/16"	86-1/2"		59.9	59.9	59.9 *	59.9 *	-	-	
26-9/16"	50-1/2"	108-3/4"	100.0	110.0	70.0 *	70.0 *	-	-	
32-9/16"	62-1/2"		100.0	110.0	70.0 *	70.0 *	-	-	
38-9/16"	74-1/2"		100.0	110.0	70.0 *	70.0 *	-	-	
44-9/16"	86-1/2"		70.0	70.0	70.0 *	70.0 *	-	-	
26-9/16"	50-1/2"	114-3/4"	70.0	70.0	70.0 *	70.0 *	-	-	
32-9/16"	62-1/2"		70.0	70.0	70.0 *	70.0 *	-	-	
38-9/16"	74-1/2"		70.0	70.0	70.0 *	70.0 *	-	-	
44-9/16"	86-1/2"		70.0	70.0	70.0 *	70.0 *	-	-	
26-9/16"	50-1/2"	120-3/4"	70.0	70.0	70.0 *	70.0 *	-	-	
32-9/16"	62-1/2"		70.0	70.0	70.0 *	70.0 *	-	-	
38-9/16"	74-1/2"		70.0	70.0	70.0 *	70.0 *	-	-	
44-9/16"	86-1/2"		70.0	70.0	70.0 *	70.0 *	-	-	

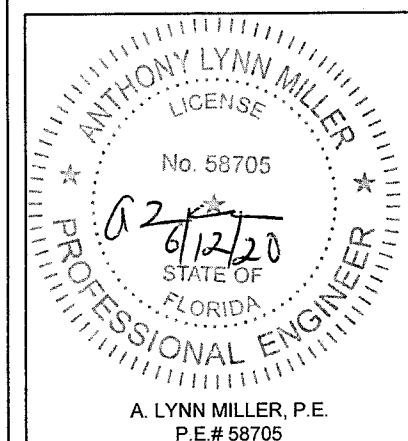
LOADS SHOWN ABOVE ARE FOR DOORS USING THRESHOLDS S-0 IN ANY CONDITION
AND SS1 & SS2 WHERE WATER INFILTRATION REQUIREMENTS ARE NOT APPLICABLE.

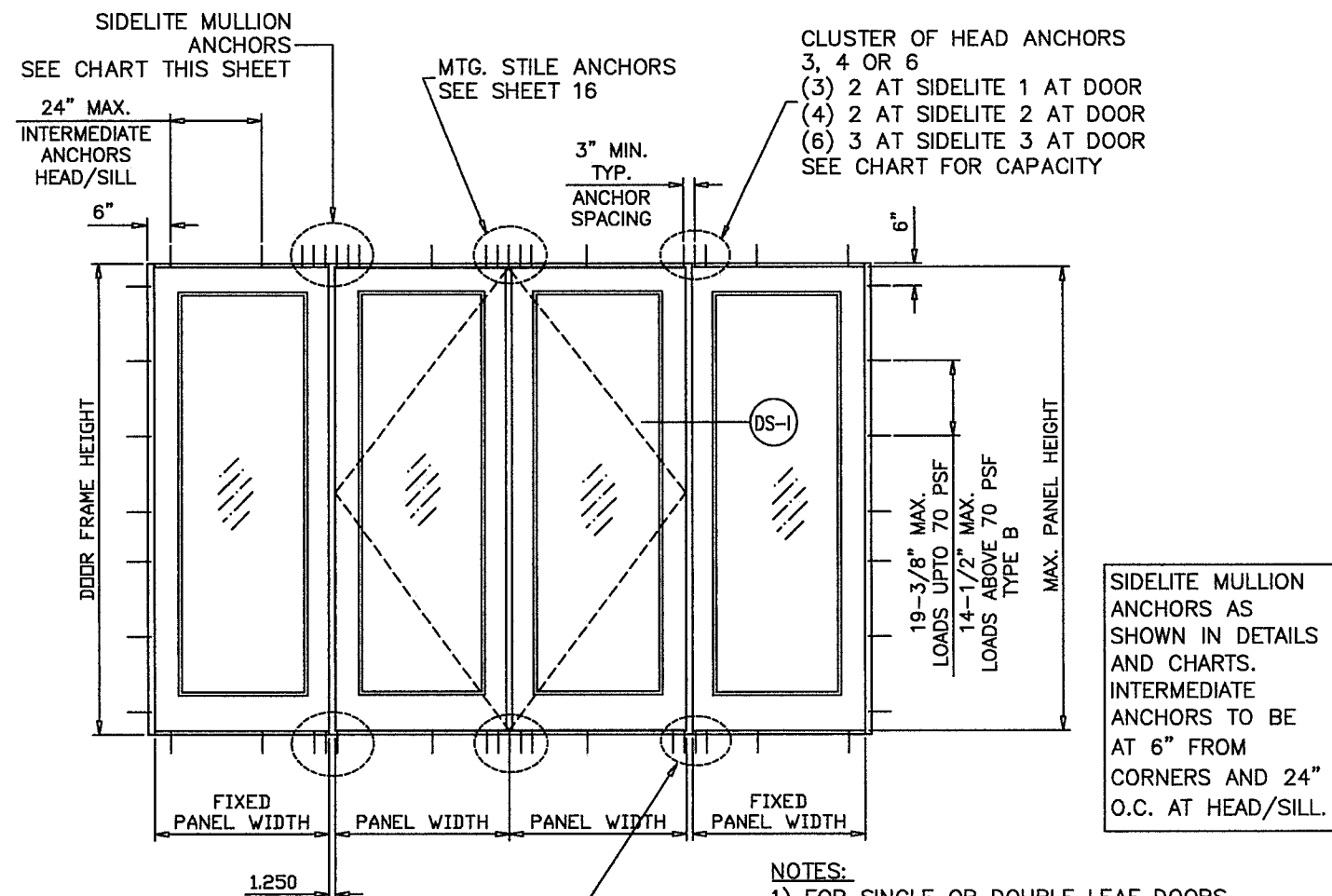
* GLASS LIMITED TO 8/0 DAYLITE OPENING. PANEL SIZES ABOVE 8/0 REQUIRE TRUE MUNTIN.



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0927.03
Expiration Date 02/27/2023
By Ishag I. Chande
Miami-Dade Product Control

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	06/12/2020	By	J ROSOWSKI	Rev.	A	
		Drawn				No.	450FD1-NOA	
		Scale				Sheet	14 OF 17	
		Series				DWG	FD450 OUTSWING	
Impact Resistant Windows & Doors WERE STRONGER™ CGI WINDOWS AND DOORS, INC. 3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590		450 ALUM. FRENCH DOOR - GLAZED & OS (LM)						
		PANEL DP						





CLUSTER OF HEAD ANCHORS
3, 4 OR 6
(3) 2 AT SIDELITE 1 AT DOOR
(4) 2 AT SIDELITE 2 AT DOOR
(6) 3 AT SIDELITE 3 AT DOOR
SEE CHART FOR CAPACITY

SIDELITE MULLION ANCHORS AS SHOWN IN DETAILS AND CHARTS. INTERMEDIATE ANCHORS TO BE AT 6\"/>

- NOTES:**
- 1) FOR SINGLE OR DOUBLE LEAF DOORS AND SINGLE SIDELITES CAPACITY SEE CHART ON SHEET 14.
 - 2) SEE SHEET 2 FOR LOCK CAPACITIES FOR SINGLE AND DOUBLE DOORS.
 - 3) SEE BELOW FOR THRESHOLD TYPES.
 - 4) SEE SHEET 13 FOR MULLION TYPES AND DESIGN LOAD CAPACITY.
 - 5) SEE CHART ON THIS SHEET FOR MULLION ANCHORS CAPACITY.
 - 6) SEE CHART ON SHEET 16 FOR MTG. STILE ANCHORS AT DOUBLE DOOR.
 - 7) LOWEST VALUE FROM THESE CHARTS WILL APPLY TO ENTIRE ASSEMBLY.

CLUSTER OF SILL ANCHORS
3 OR 4
(3) 2 AT SIDELITE 1 AT DOOR
(4) 2 AT SIDELITE 2 AT DOOR
SEE CHART FOR CAPACITY

ANCHORS:

TYPE 'B'- 1/4\"/>

EDGE DISTANCES
INTO CONCRETE/HOLLOW BLOCK = 2-1/2\"/>

TYPE 'B+'- 1/4\"/>

EDGE DISTANCES
INTO CONCRETE/HOLLOW BLOCK = 2-1/2\"/>

TYPE 'C'- 1/4\"/>

EDGE DISTANCES
INTO CONCRETE = 2-1/2\"/>

TYPE 'D1'- 5/16\"/>

EDGE DISTANCES
INTO CONCRETE = 3-1/8\"/>

TYPE 'D2'- #14 SMS (GRADE 5 CRS)
INTO WOOD STRUCTURES WITH 1-3/8\"/>

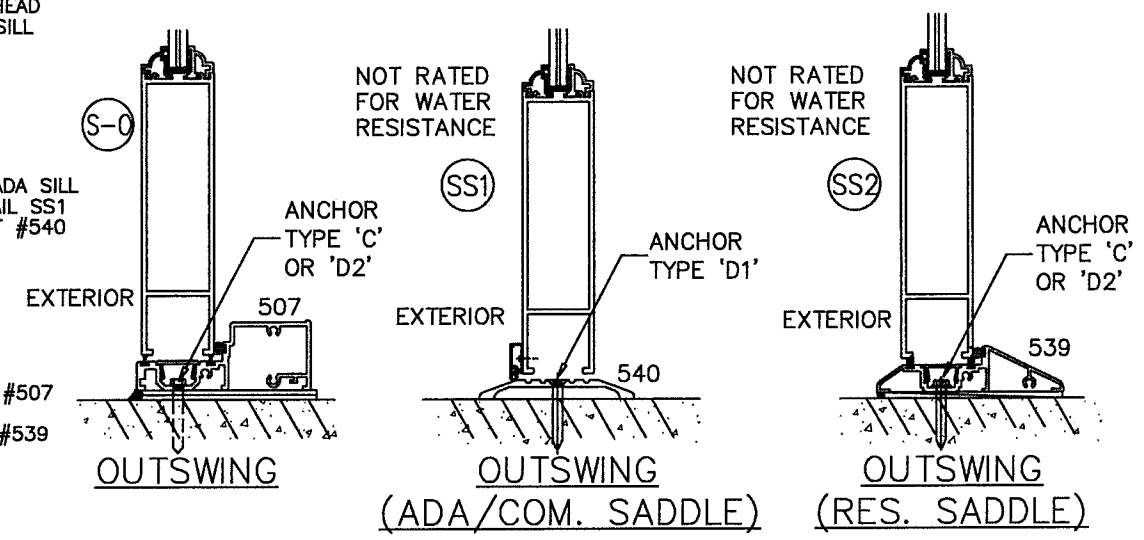
EDGE DISTANCES
INTO WOOD = 1\"/>

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

MULLION ANCHORS AT SIDELITES									
NOMINAL DIMS.		DESIGN LOAD CAPACITY-PSF							
		TYPE 'B' OR 'B+' AT HEAD			TYPE 'C' AT HEAD		TYPE 'C' AT HEAD		
		CLUSTER OF 3 ANCHORS	CLUSTER OF 4 ANCHORS	CLUSTER OF 6 ANCHORS	CLUSTER OF 3 ANCHORS	CLUSTER OF 4 ANCHORS	CLUSTER OF 3 ANCHORS	CLUSTER OF 4 ANCHORS	CLUSTER OF 4 ANCHORS
2/0	82-3/4"	106.7	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2/6		86.2	110.0	110.0	110.0	110.0	110.0	110.0	110.0
3/0		72.3	96.4	110.0	109.3	110.0	101.0	110.0	110.0
3/6		62.3	83.0	110.0	94.2	110.0	87.0	110.0	110.0
2/0	84-3/4"	104.2	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2/6		84.2	110.0	110.0	110.0	110.0	110.0	110.0	110.0
3/0		70.6	94.1	110.0	106.7	110.0	98.7	110.0	110.0
3/6		60.8	81.1	110.0	91.9	110.0	85.0	108.7	110.0
2/0	90-3/4"	97.3	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2/6		78.6	104.8	110.0	110.0	110.0	109.8	110.0	110.0
3/0		65.9	87.9	110.0	99.7	110.0	92.1	110.0	110.0
3/6		56.8	75.7	110.0	85.9	110.0	79.4	101.5	110.0
2/0	96-3/4"	91.2	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2/6		73.7	98.3	110.0	110.0	110.0	103.0	110.0	110.0
3/0		61.9	82.5	110.0	93.5	110.0	86.4	110.0	110.0
3/6		53.3	71.0	106.5	80.5	107.4	74.4	95.2	110.0
2/0	102-3/4"	85.9	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2/6		69.4	92.6	110.0	104.9	110.0	97.0	110.0	110.0
3/0		58.2	77.7	110.0	88.0	110.0	81.4	104.1	110.0
3/6		50.2	66.9	100.3	75.8	101.1	70.1	89.6	110.0
2/0	108-3/4"	81.2	108.2	110.0	110.0	110.0	110.0	110.0	110.0
2/6		65.6	87.5	110.0	99.2	110.0	91.7	110.0	110.0
3/0		55.0	73.4	110.0	83.2	110.0	76.9	98.3	110.0
3/6		47.2	63.4	100.3	71.8	101.1	66.1	85.6	110.0
2/0	114-3/4"	76.9	102.6	110.0	110.0	110.0	107.5	110.0	110.0
2/6		62.2	82.9	110.0	94.0	110.0	86.9	110.0	110.0
3/0		52.2	69.5	104.3	78.8	105.1	72.9	93.2	110.0
3/6		44.2	59.5	99.1	69.9	101.1	64.2	83.6	110.0
2/0	120-3/4"	73.1	97.5	110.0	110.0	110.0	102.2	110.0	110.0
2/6		59.1	78.8	110.0	89.3	110.0	82.5	105.6	110.0
3/0		49.6	66.1	99.1	74.9	99.9	69.2	88.6	110.0
3/6		41.6	56.1	94.1	64.9	94.9	59.2	78.6	110.0

LOADS SHOWN ABOVE ARE FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED. LIMIT EXT.(+) LOADS TO 50.0 PSF FOR THRESHOLDS S-I WHERE WATER INFILTRATION RESISTANCE IS REQUIRED. THRESHOLDS SS1 AND SS2 ARE NOT RATED FOR WATER INFILTRATION.

$$WIDTH (W) = \frac{DOOR PANEL + FIXED PANEL}{2} + 1.250$$



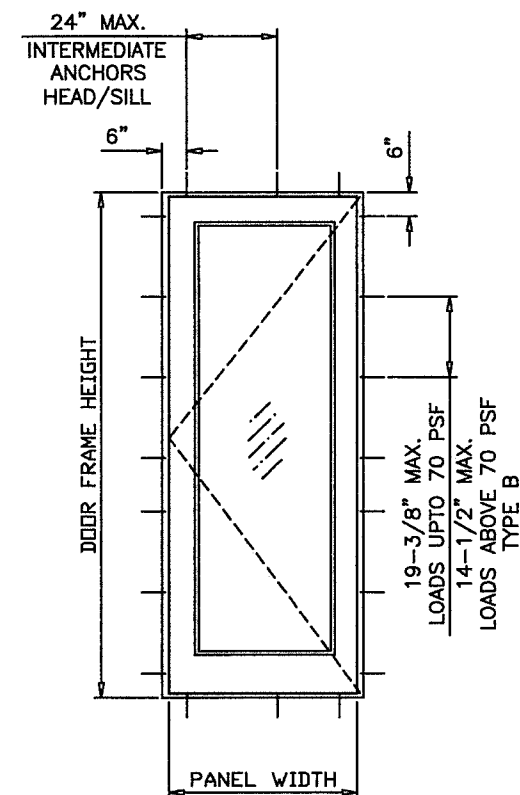
PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 21-0927.03
Expiration Date 02/27/2023
By Ishag I. Chank
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0619.04
Expiration Date 11/09/2021
By Ishag I. Chank
Miami-Dade Product Control

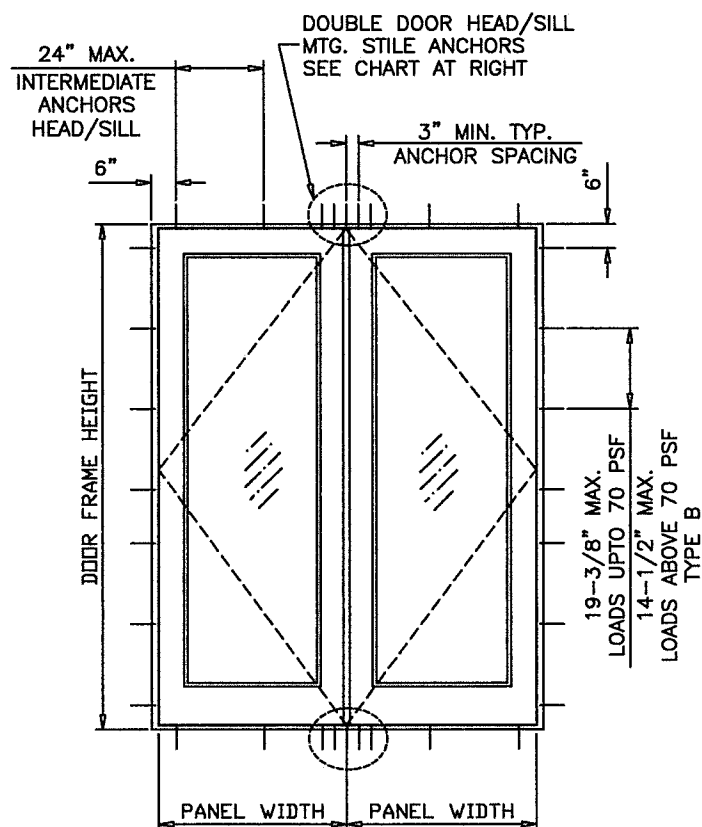
Revision: ADDED ANCHOR TYPE, & REFORMATTED - JR - 6/11/20

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	06/12/2020	J ROSOWSKI	450FD1-NOA	A
		Date			
		By			
		Drawn			
Impact Resistant Windows & Doors WE'RE STRONGER™ CGI WINDOWS AND DOORS, INC. 3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590	450 ALUM. FRENCH DOOR - GLAZED & OS (LM)	ANCHOR DP	FD450 OUTSWING	15 OF 17	NTS

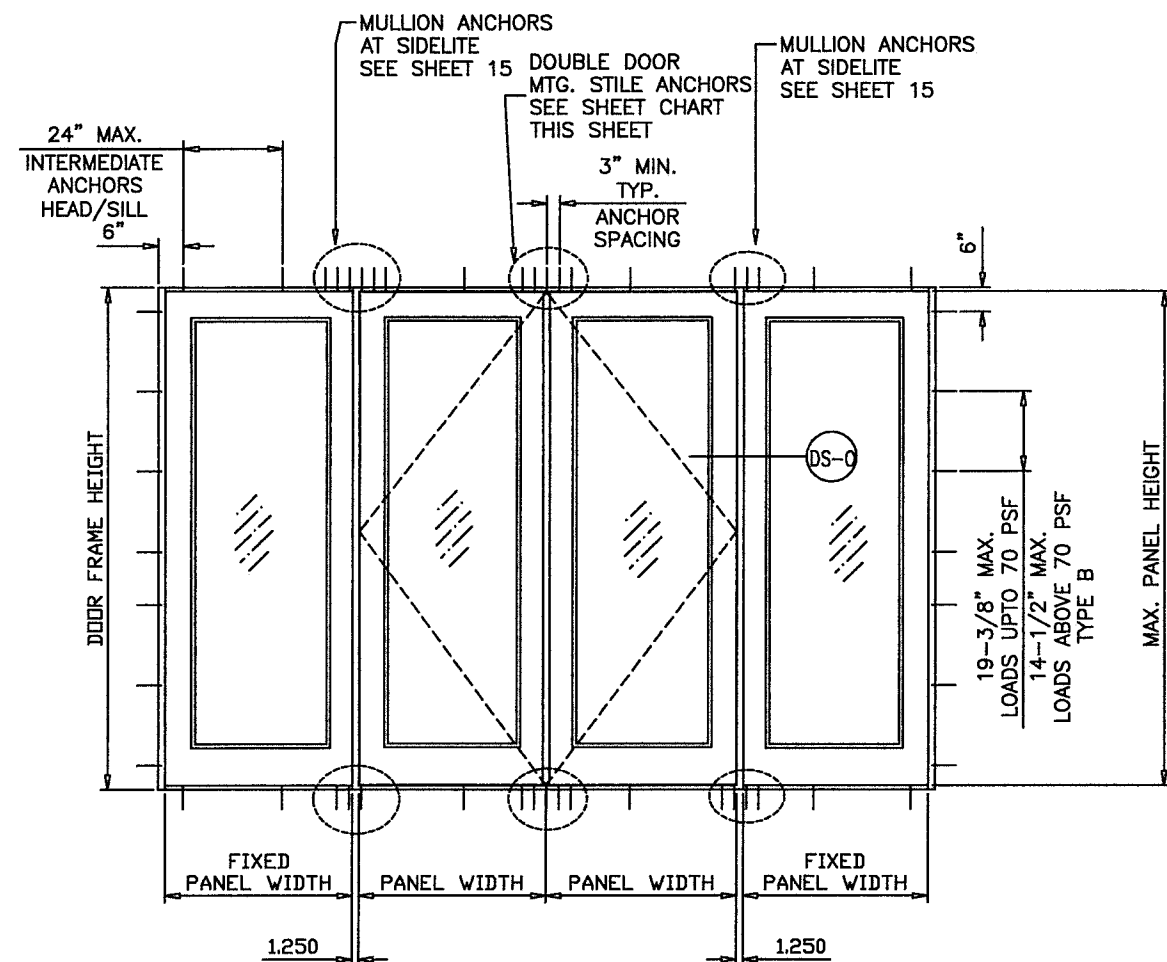
ANTHONY LYNN MILLER
LICENSE
No. 58705
6/2/20
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



SINGLE DOOR OR SIDELITE



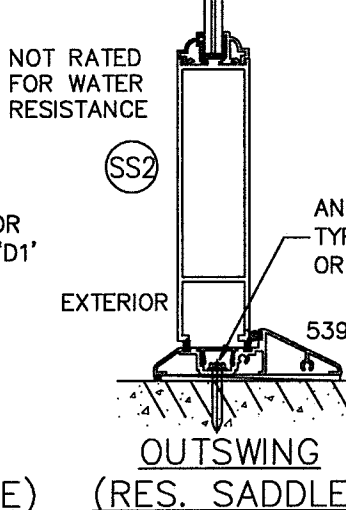
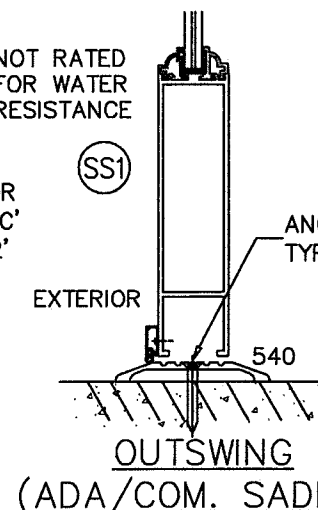
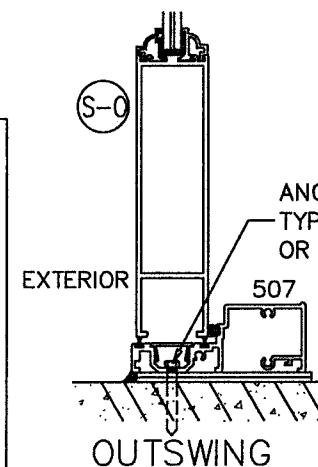
DOUBLE DOOR



MEETING STILE ANCHORS AS SHOWN IN DETAILS AND CHARTS INTERMEDIATE ANCHORS TO BE AT 6" FROM CORNERS AND 24" O.C. AT HEAD/SILL.

MTG. STILE ANCHORS AT DOUBLE DOORS								
DESIGN LOAD CAPACITY-PSF								
NOMINAL DIMS.	FRAME WIDTH (XX)	FRAME HEIGHT	TYPE 'B' OR 'B+' AT HEAD			TYPE 'C' AT HEAD TYPE 'C' AT S-I & SS2 SILL		TYPE 'C' AT HEAD TYPE 'D1' AT SS1 SILL OR TYPE 'D2' AT S-I & SS2 SILL
			CLUSTER OF 3 ANCHORS	CLUSTER OF 4 ANCHORS	CLUSTER OF 5 ANCHORS	CLUSTER OF 3 ANCHORS	CLUSTER OF 4 ANCHORS	CLUSTER OF 3 ANCHORS
50-1/2"	82-3/4"	62-1/2"	106.7	110.0	110.0	110.0	110.0	110.0
62-1/2"		74-1/2"	86.2	110.0	110.0	110.0	110.0	100.7
74-1/2"		86-1/2"	72.3	96.4	110.0	109.3	110.0	84.5
86-1/2"		98-1/2"	62.3	83.0	103.8	94.2	110.0	72.8
50-1/2"	84-3/4"	62-1/2"	104.2	110.0	110.0	110.0	110.0	110.0
62-1/2"		74-1/2"	84.2	110.0	110.0	110.0	110.0	98.4
74-1/2"		86-1/2"	70.6	94.1	110.0	106.7	110.0	82.5
86-1/2"		98-1/2"	60.8	81.1	101.4	91.9	110.0	71.1
50-1/2"	90-3/4"	62-1/2"	97.3	110.0	110.0	110.0	110.0	110.0
62-1/2"		74-1/2"	78.6	104.8	110.0	110.0	110.0	91.9
74-1/2"		86-1/2"	65.9	87.9	109.9	99.7	110.0	77.1
86-1/2"		98-1/2"	56.8	75.7	94.7	85.9	110.0	66.4
50-1/2"	96-3/4"	62-1/2"	91.2	110.0	110.0	110.0	110.0	106.6
62-1/2"		74-1/2"	73.7	98.3	110.0	110.0	110.0	86.2
74-1/2"		86-1/2"	61.9	82.5	103.1	93.5	110.0	72.3
86-1/2"		98-1/2"	53.3	71.0	88.8	80.5	107.4	62.3
50-1/2"	102-3/4"	62-1/2"	85.9	110.0	110.0	110.0	110.0	100.4
62-1/2"		74-1/2"	69.4	92.6	110.0	104.9	110.0	81.1
74-1/2"		86-1/2"	58.2	77.7	97.1	88.0	110.0	68.1
86-1/2"		98-1/2"	50.2	66.9	83.6	75.8	101.1	58.6
50-1/2"	108-3/4"	62-1/2"	81.2	108.2	110.0	110.0	110.0	94.9
62-1/2"		74-1/2"	65.6	87.5	109.3	99.2	110.0	76.7
74-1/2"		86-1/2"	55.0	73.4	91.7	83.2	110.0	64.3
86-1/2"		98-1/2"	46.9	62.6	82.6	74.9	99.9	57.9
50-1/2"	114-3/4"	62-1/2"	76.9	102.6	110.0	110.0	110.0	89.9
62-1/2"		74-1/2"	62.2	82.9	103.6	94.0	110.0	72.6
74-1/2"		86-1/2"	52.2	69.5	86.9	78.8	105.1	60.9
86-1/2"		98-1/2"	43.1	57.5	73.1	65.4	95.4	55.4
50-1/2"	120-3/4"	62-1/2"	59.1	78.8	98.5	89.3	110.0	69.0
62-1/2"		74-1/2"	49.6	66.1	82.6	74.9	99.9	57.9
74-1/2"		86-1/2"	40.1	54.1	69.1	61.1	91.1	51.1
86-1/2"		98-1/2"	31.1	44.1	54.1	46.1	81.1	41.1

- 1) SEE SHEET 15 FOR ANCHORS DESCRIPTION AND SILL ANCHOR OPTIONS.
- 2) FOR SINGLE OR DOUBLE LEAF DOORS, SINGLE SIDELITES AND THRESHOLD CAPACITY SEE CHART ON SHEET 14.
- 3) SEE SHEET 2 FOR LOCK CAPACITIES FOR SINGLE AND DOUBLE DOORS.
- 4) SEE SHEET 13 FOR MULLION TYPES AND DESIGN LOAD CAPACITY.
- 5) SEE CHART ON SHEET 15 FOR MULLION ANCHORS CAPACITY.
- 6) SEE CHART ON THIS SHEET FOR MTG. STILE ANCHORS AT DOUBLE DOOR.
- 7) LOWEST VALUE FROM THESE CHARTS WILL APPLY TO ENTIRE ASSEMBLY.



PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 21-0927.03

Expiration Date 02/27/2023

By Ishaq I. Chandra
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0619.04

Expiration Date 11/09/2021

By Ishaq I. Chandra
Miami-Dade Product Control

ADDED ANCHOR TYPE, &
REFORMATTED - JR - 6/11/20

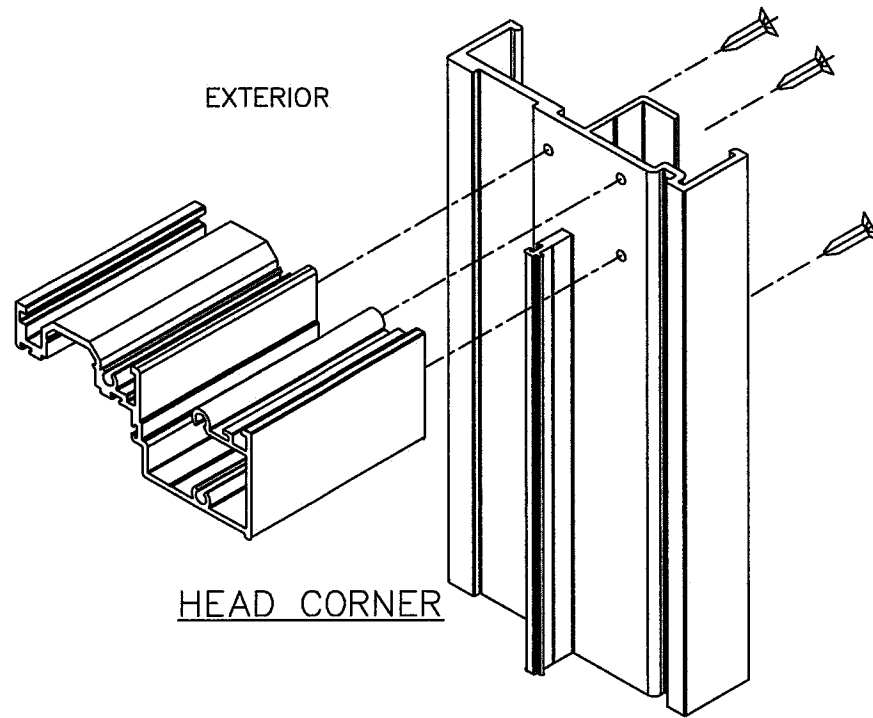
PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

Impact Resistant
Windows & Doors
WE'RE STRONGER™
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

REGISTRATION #29296
06/12/2020
450 ALUM. FRENCH DOOR - GLAZED & OS (LM)
ANCHOR DP
FD450 OUTSWING
16 OF 17
450FD1-NOA
A

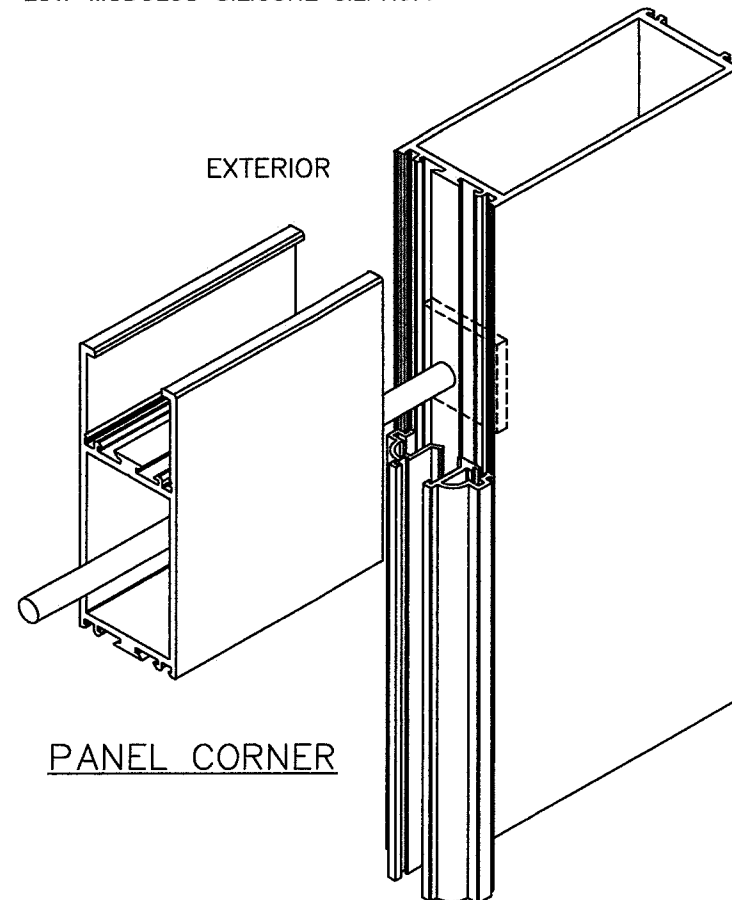
ANTHONY LYNN MILLER
LICENSE
No. 58705
6/12/20
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

CORNER DETAILS

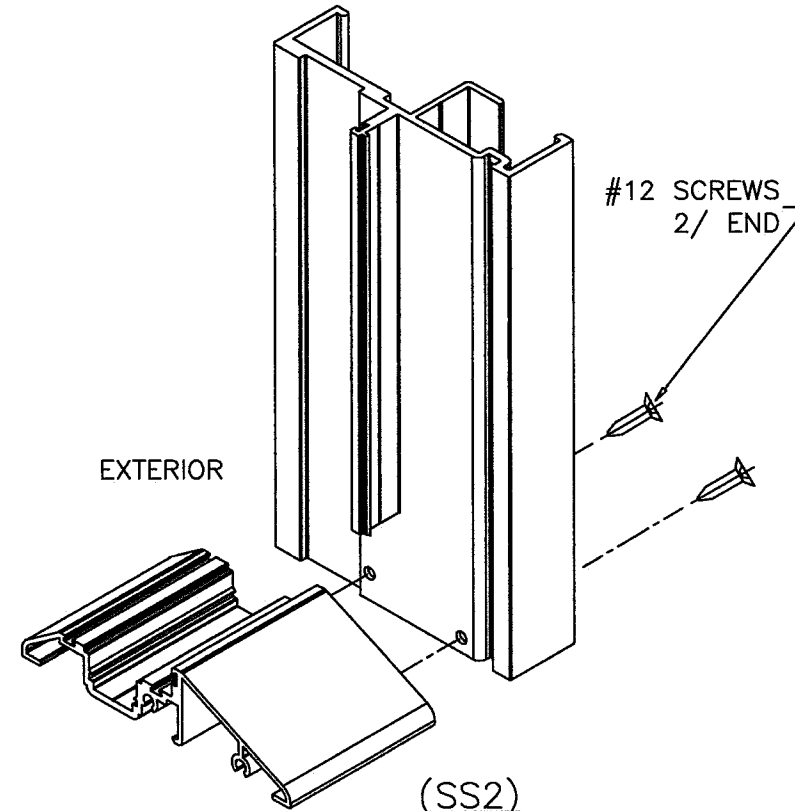


HEAD CORNER

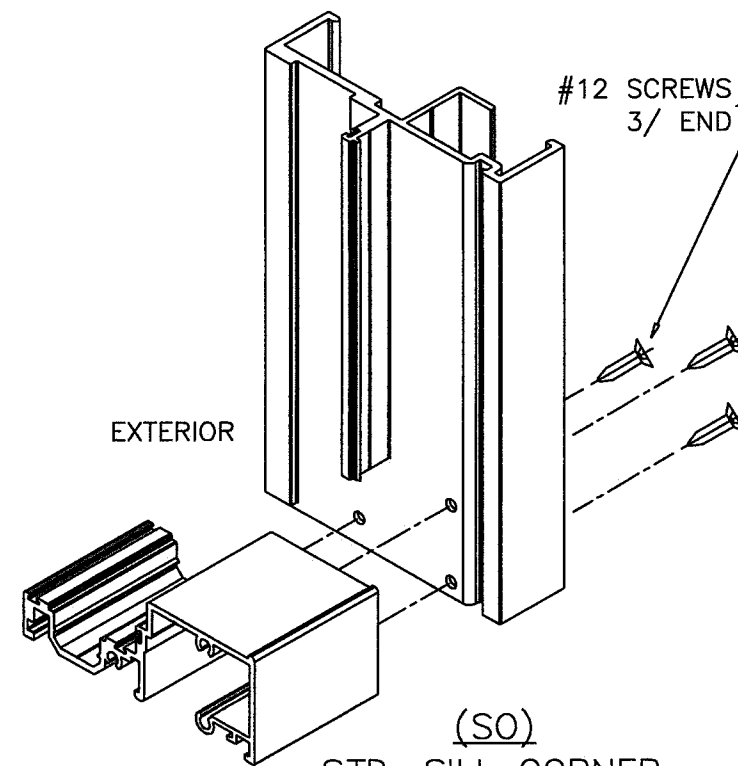
CORNERS TO BE SEALED WITH LOW MODULUS SILICONE SILPRUF.



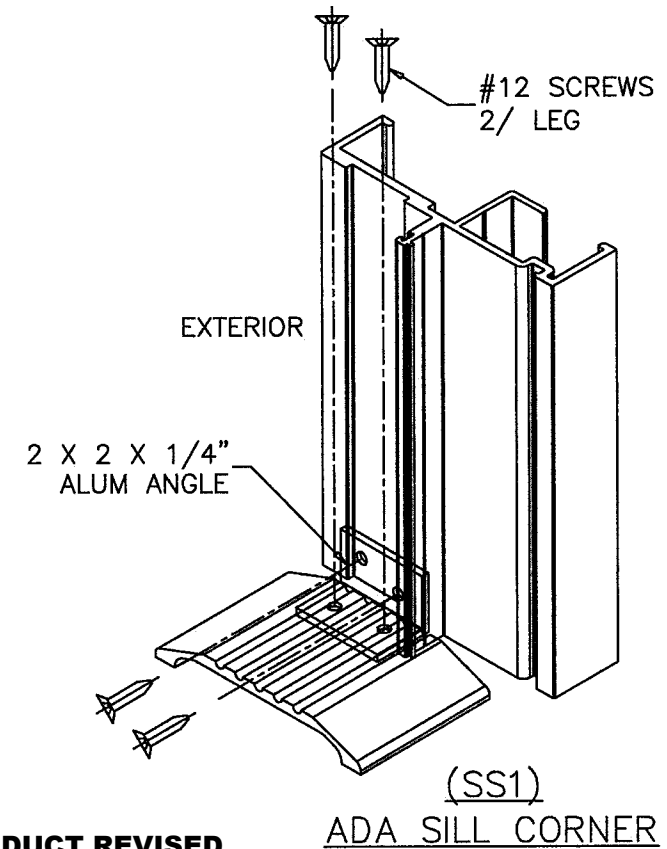
PANEL CORNER



(SS2)
RESIDENTIAL SADDLE SILL



(SO)
STD. SILL CORNER

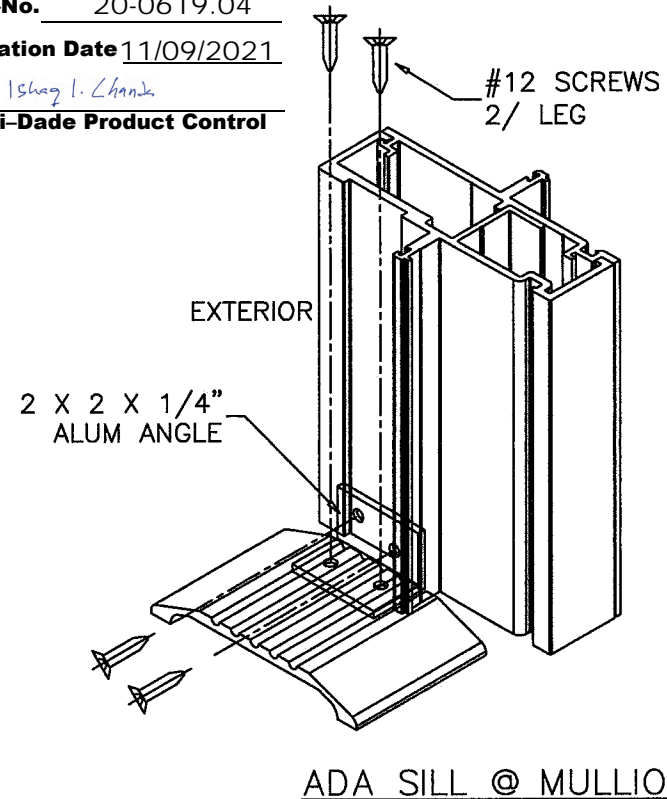


(SS1)
ADA SILL CORNER

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0619.04

Expiration Date 11/09/2021

By Ishag I. Chande
Miami-Dade Product Control



ADA SILL @ MULLION

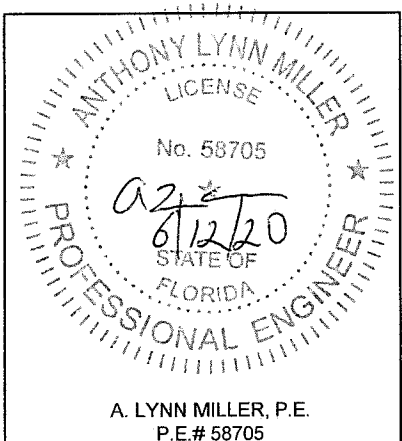
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By Ishag I. Chande
Miami-Dade Product Control

Revision:

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	06/12/2020	By	J ROSOWSKI	Rev.	A
		DWG	No.	450FD1-NOA			
		Sheet	17 OF 17				
		Scale	NTS				
Impact Resistant Windows & Doors WERE STRONGER™ CGI WINDOWS AND DOORS, INC. 3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590	450 ALUM. FRENCH DOOR - GLAZED & OS (LM)	CORNER DETAILS		FD450 OUTSWING			



A. LYNN MILLER, P.E.
P.E.# 58705