



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

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

Windoor Inc.,  
104 Triple Diamond Blvd.  
North Venice, FL 34275

### SCOPE:

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

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

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

### DESCRIPTION: Series "450" Aluminum Outswing glazed Doors w/wo Sidelites - Impact

**APPROVAL DOCUMENT:** Drawing No. **FD450 Rev 1** (former **18-107D**), titled "Series 450 French Door, glazed & Outswing", sheets 1 thru 17 of 17, prepared by manufacturer, dated 06/12/20, signed and sealed by Lynn Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

1. See Design Pressure ratings in sheets **2, 9, 10, 11, 12 & 13** for unit sizes Vs 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 ft<sup>2</sup>, 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 **revises #18-0926.06 (PLA)** consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 & E-5, as well as approval document mentioned above.

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



NOA No. 20-0619.08  
Expiration Date: November 09, 2021  
Approval Date: November 25, 2020  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

1. Evidence submitted in previous NOA

**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 Corp., 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 5<sup>th</sup> Edition (2014)** and with **FBC 6<sup>th</sup> 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 5<sup>th</sup> Edition (2014)** and **FBC 6<sup>th</sup> 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.

2. Evidence submitted in previous NOA

**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

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**Ishaq I. Chanda, P.E.**

**Product Control Examiner**

**NOA No 20-0619.08**

**Expiration Date: November 09, 2021**

**Approval Date: November 25, 2020**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**B. TESTS (continue):**

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.

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(5<sup>th</sup> 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. **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.

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Ishaq I. Chanda, P.E.  
Product Control Examiner  
NOA No 20-0619.08  
Expiration Date: November 09, 2021  
Approval Date: November 25, 2020

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**E. MATERIAL CERTIFICATIONS (continue):**

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. **17-0712.05** issued to Eastman Chemical Company (MA) (Former Solutia, Inc.) for the “**Saflex Clear and Color Glass Interlayers**”, expiring on 05/21/21.

**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 09/30/14, signed and sealed by Javad Ahmad, P.E.

**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.

**3. Evidence submitted under Previous approval.**

**A. DRAWINGS**

1. Drawing No.**18-107D**, 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 SEP 19, 2018, signed and sealed by Javad Ahmad, P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **14-0916.11** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & 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 2017 (**6<sup>th</sup> Edition**) and letter of private label, prepared by Al Farooq Corporation, dated 09/19/18, signed and sealed by Javad Ahmad, P.E.

**G. OTHER**

1. This NOA **revises NOA #17-1011.12 (PLA)**, expiring on November 09, 2021.
2. Private Label Agreement (PLA) between CGI Windows and Doors, Inc. and Windoor Inc., signed by Dean M. Ruark, P.E., Vice President on behalf of both companies.
3. Reference CGI NOA # 17-1011.12 (#16-0329.04), expiring 11/09/21.

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**Ishaq I. Chanda, P.E.**  
**Product Control Examiner**  
**NOA No 20-0619.08**

**Expiration Date: November 09, 2021**  
**Approval Date: November 25, 2020**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. New Evidence submitted**

**A. DRAWINGS**

1. Drawing No. **FD450 Rev 1** (former **18-107D**), titled “Series 450 French Door, glazed & Outswing”, sheets 1 thru 17 of 17, prepared by manufacturer, dated 06/12/20, 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 PGT Industries, Inc., CGI Windows and Doors, Inc. and WinDoor, 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.:

**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.

**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.

**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.

**C. CALCULATIONS**

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

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**Ishaq I. Chanda, P.E.**

**Product Control Examiner**

**NOA No 20-0619.08**

**Expiration Date: November 09, 2021**

**Approval Date: November 25, 2020**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2020 (7<sup>th</sup> Edition), issued by manufacturer, dated 6/12/20, 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 06/12/20, signed and sealed by A. Lynn Miller, P.E.
3. Private Label Agreement dated 07/17/20 between Windoors, Inc. and CGI Windows and Doors, signed by Dean M. Ruark, P.E., V.P. Eng., on behalf of respective companies

**G. OTHER**

1. This NOA **revises # 18-0926.06 (PLA)**, updates to FBC 2020, expiring 11/09/21.
2. Additional associated reference file **#20-0619.07 (LMI)**.
3. RER Test proposals **#19-1155** dated 01/10/20 approved by Ishaq I. Chanda, P.E.

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Examiner**  
**NOA No 20-0619.08**  
**Expiration Date: November 09, 2021**  
**Approval Date: November 25, 2020**

# 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"

LEGEND

H-0

10

=

DOOR DETAIL

SHEET #

=

ITEM PART NUMBER

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.

## TYPICAL ELEVATIONS

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

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0619.08  
Expiration Date 11/09/2021  
By Ishag I. Chande  
Miami-Dade Product Control

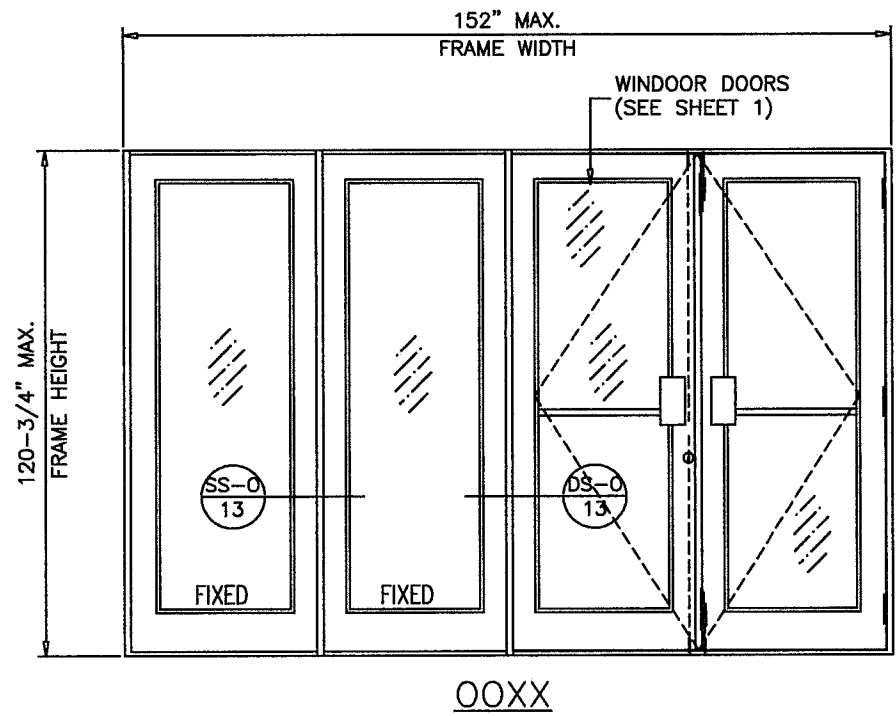
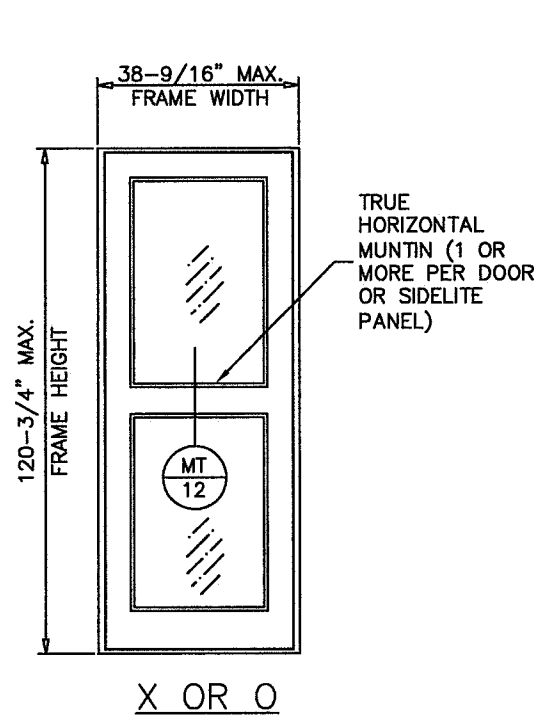
REVISION:  
REVISED FOR 2020 FBC,  
ADDED GEN. NOTES,  
ANCHOR TYPE,  
BACKBEDDING TYPES &  
REFORMATTED - JR - 6/11/20

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	06/12/2020	By	J ROSOWSKI	No.	450FD1-NOA	DWG	1 OF 17	Sheet	NTS	Scale	Series	Desc.	Title
WinDoor® INCORPORATED 104 TRIPLE DIAMOND BLVD. N. VENICE, FL 34275 (407) 481-8400	450 ALUM. FRENCH DOOR - GLAZED & OS (LM)	GEN. NOTES AND ELEVATIONS	FD450 OUTSWING	NTS	Sheet	1 OF 17	DWG	450FD1-NOA	No.	1 OF 17	Sheet	NTS	Scale	Series	Desc.

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

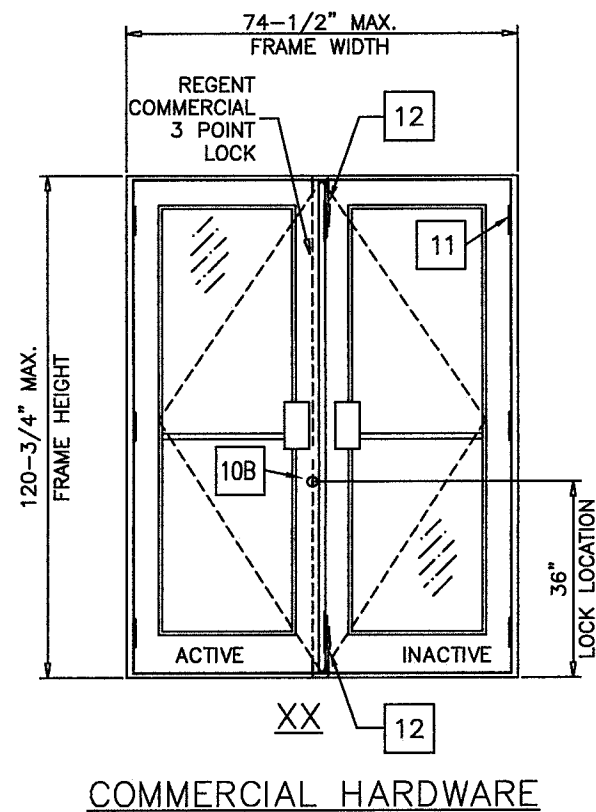
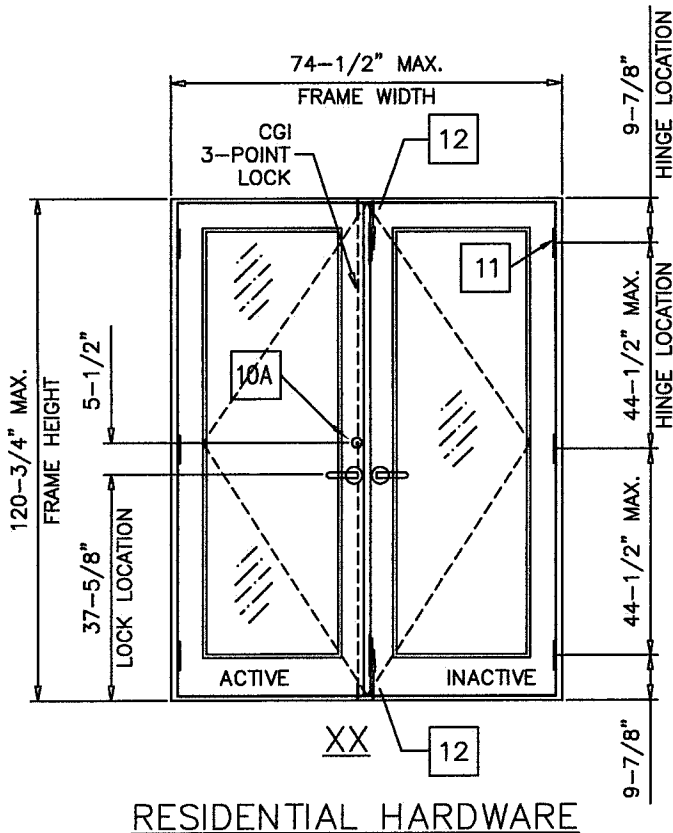


HARDWARE DESCRIPTION, TYPICAL ELEVATIONS



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



LOCK OPTIONS AND CAPACITY												
	10A		10AA		10B		10C & 10CC		10D & 10E		10 F	
FRAME HEIGHT	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"

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0619.08  
Expiration Date 11/09/2021  
By *Ishag I. Chande*  
Miami-Dade Product Control

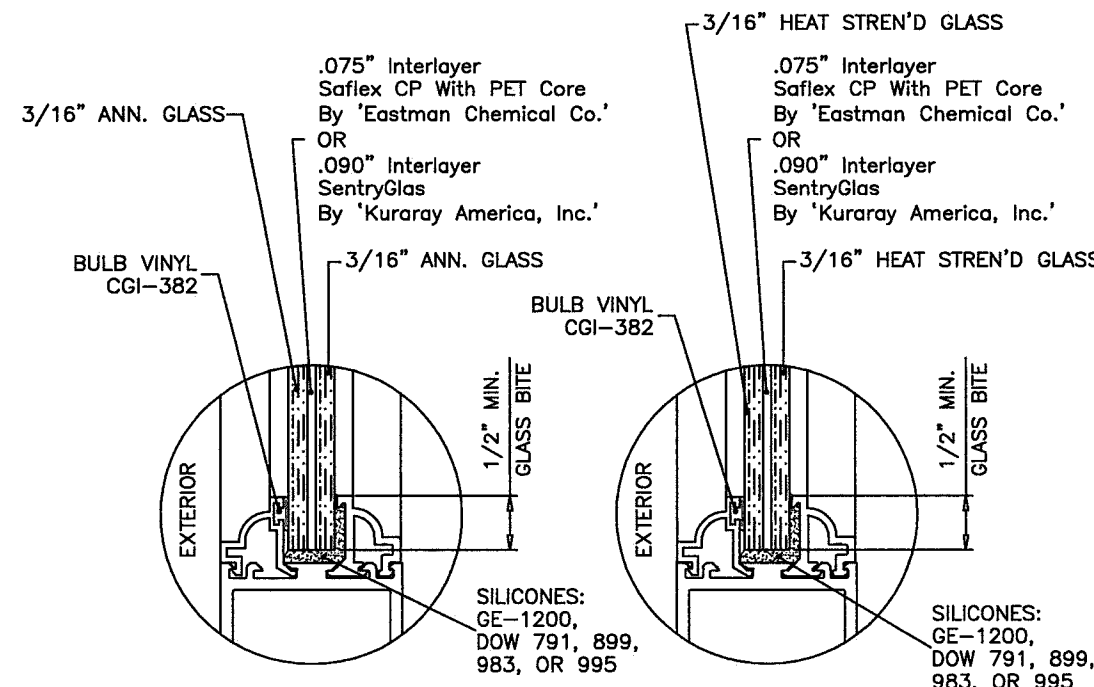
Revision:

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296		J ROSOWSKI 450FD1-NOA A	
	Date	06/12/2020		
	By			
	Drawn			
<b>WinDoor®</b> INCORPORATED 104 TRIPLE DIAMOND BLVD. N. VENICE, FL 34275 (407) 481-8400	450 ALUM. FRENCH DOOR - GLAZED & OS (LM)		DESIGN PRESSURES AND ELEVATIONS FD450 OUTSWING	
	2 OF 17			
	NTS			
	Scale			

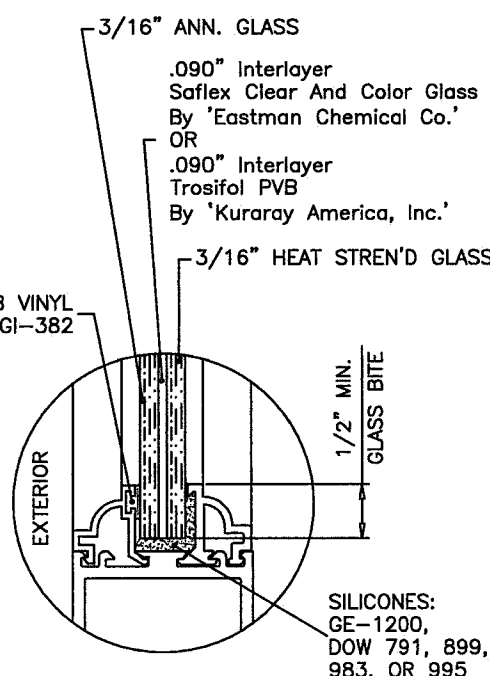
ANTHONY LYNN MILLER  
LICENSE  
No. 58705  
6/12/20  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
A. LYNN MILLER, P.E.  
P.E.# 58705



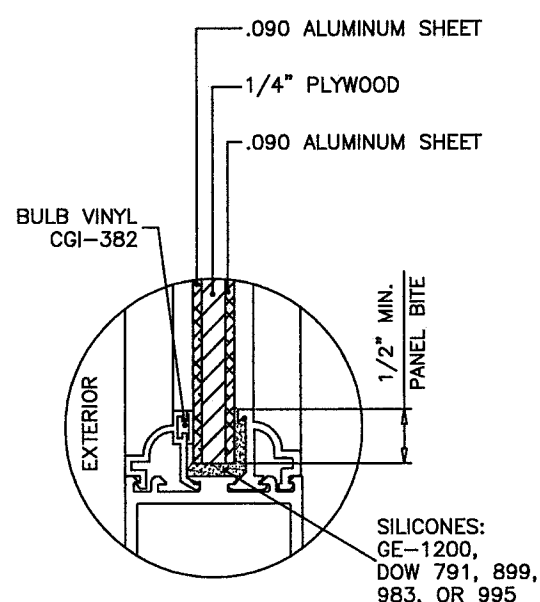
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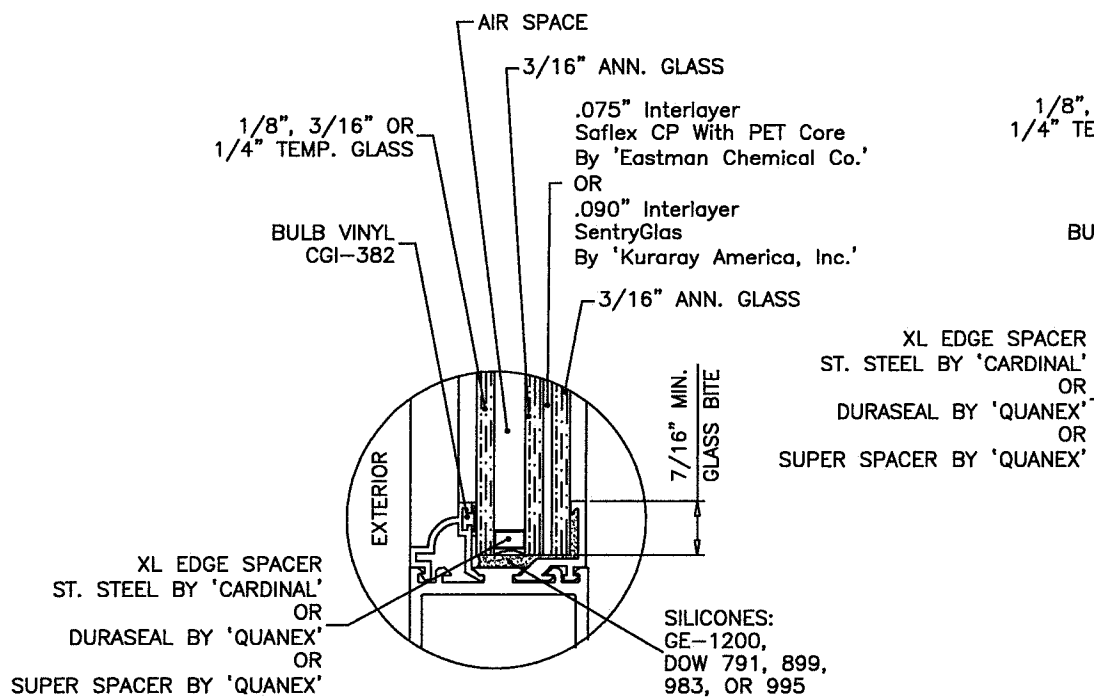
GLASS TYPE 'A'  
7/16" OVERALL LAM. GLASS



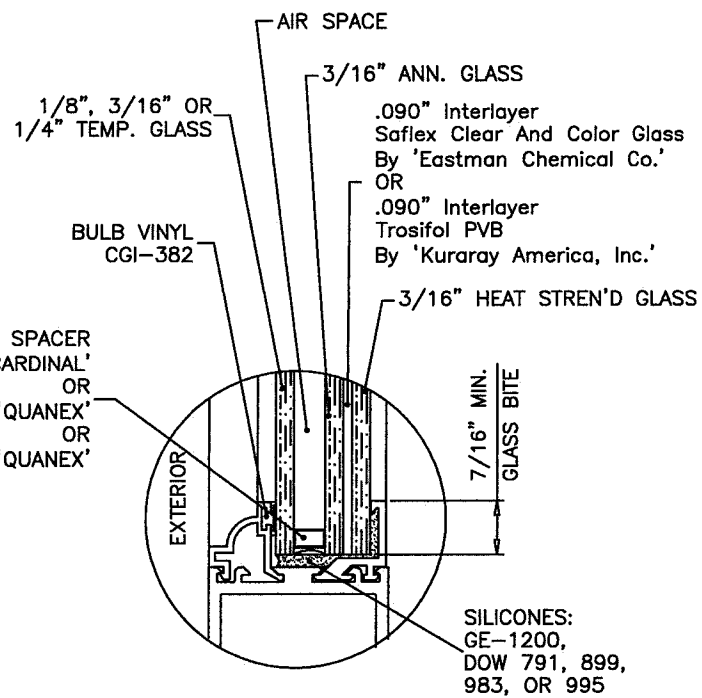
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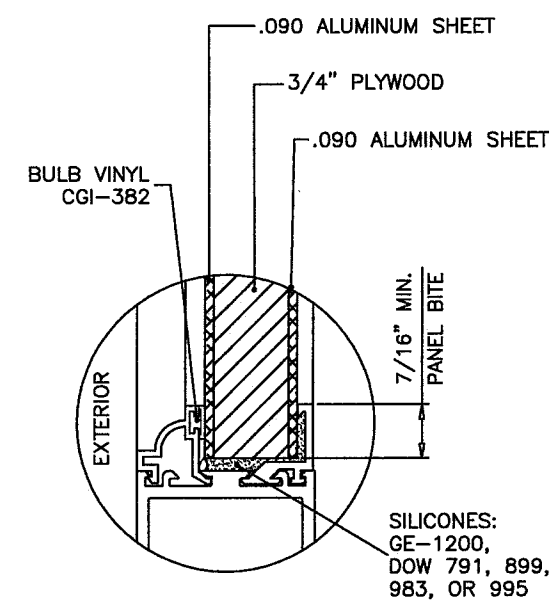
7/16" OVERALL  
COMPOSITE PANEL



GLASS TYPE 'A1'  
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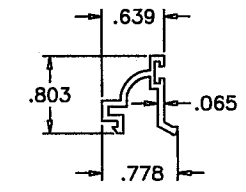


GLASS TYPE 'B1'  
1" OVERALL INSUL. LAM. GLASS

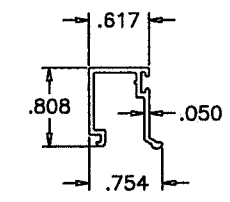


1" OVERALL  
COMPOSITE PANEL

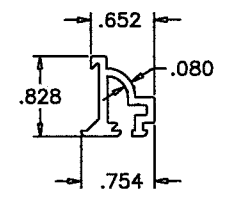
GLAZING STOP  
OPTIONS



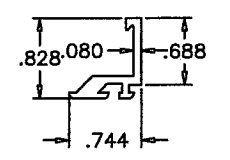
CGI-375



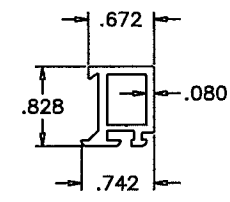
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CGI-504



CGI-515



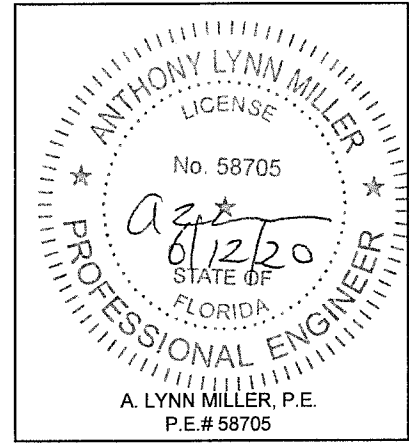
CGI-519

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

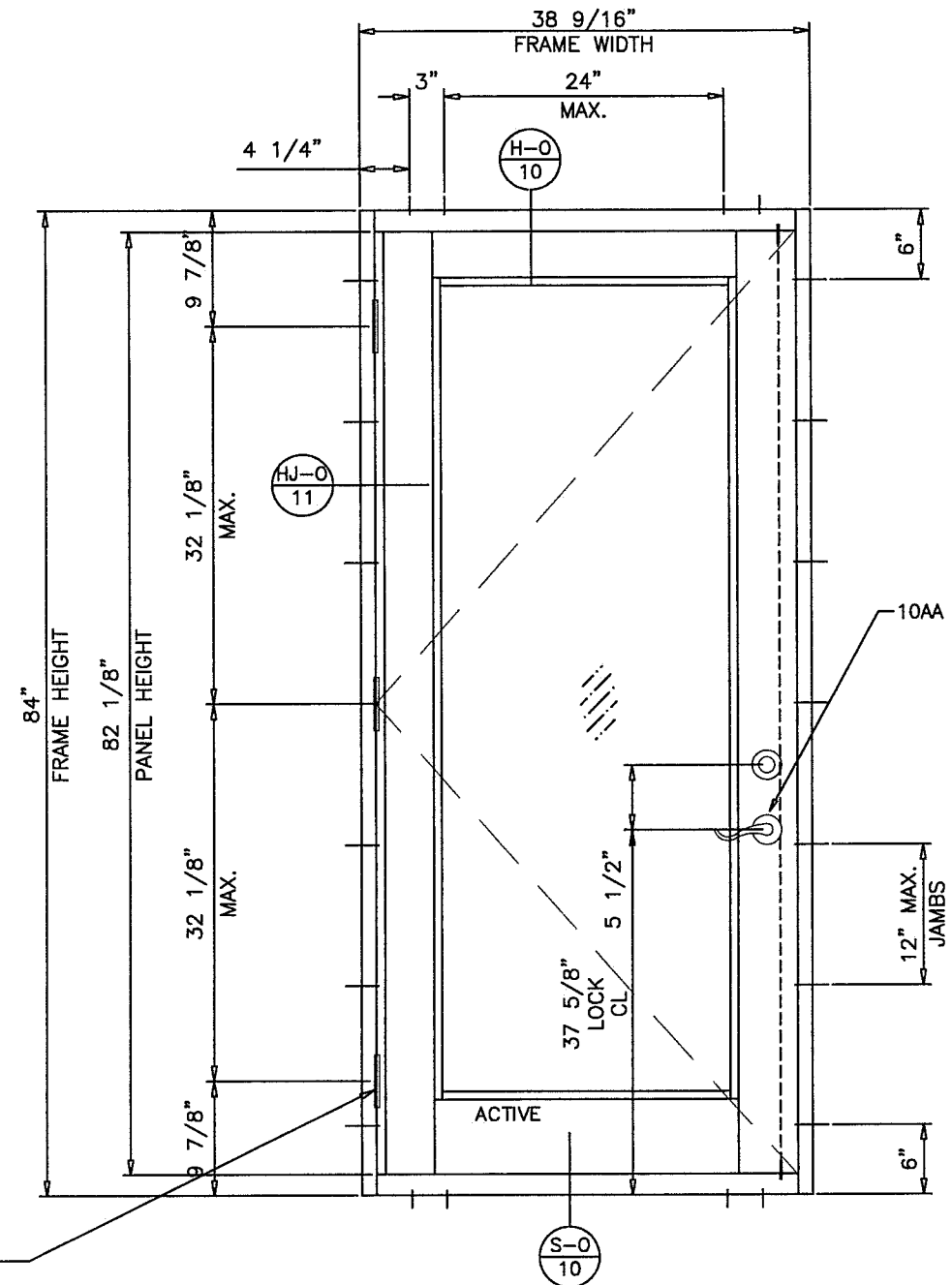
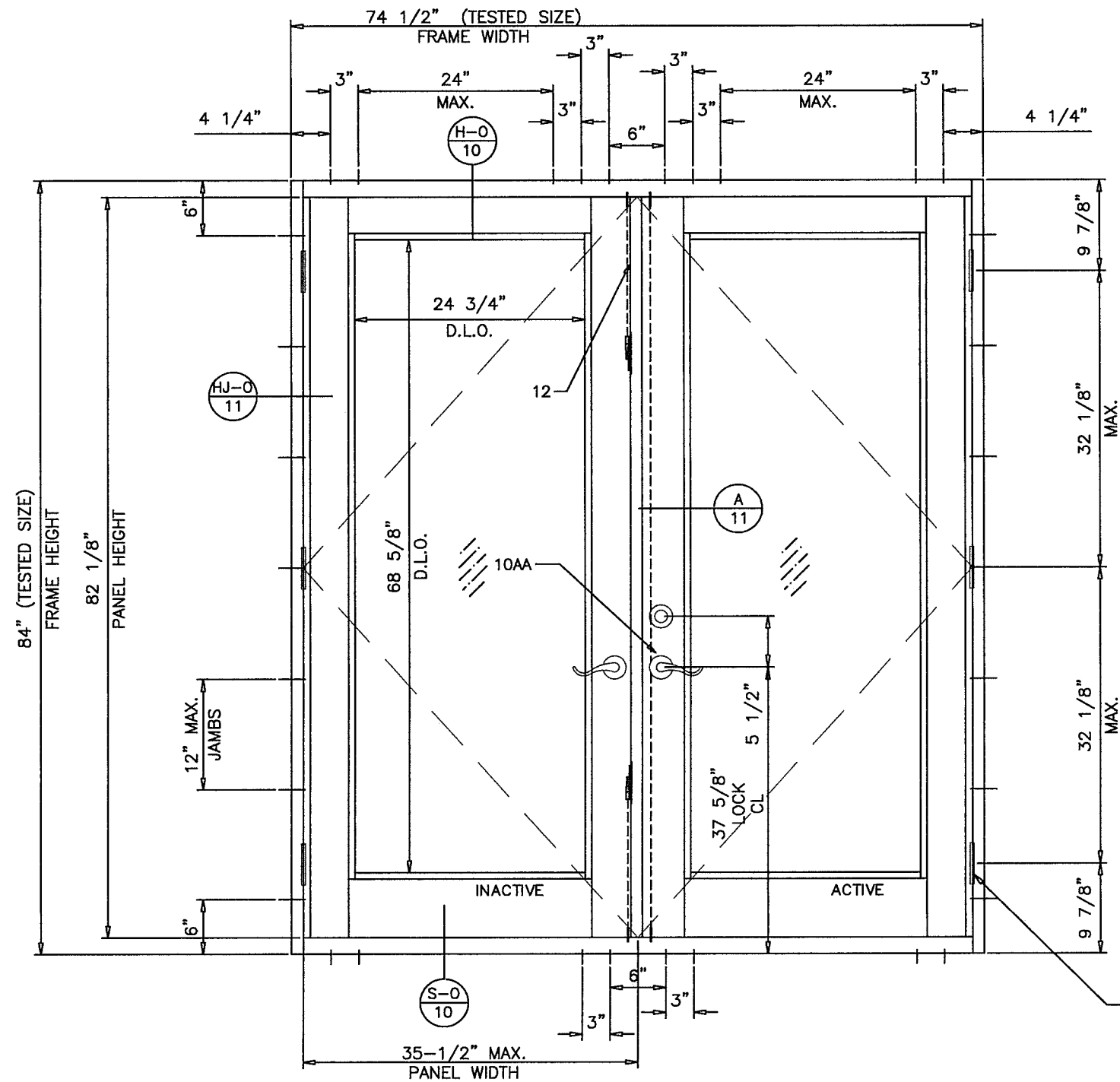
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0619.08  
Expiration Date 11/09/2021  
By *Ismael L. Chando*  
Miami-Dade Product Control

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	
450 ALUM. FRENCH DOOR - GLAZED & OS (LM)		Date	06/12/2020
GLAZING DETAILS		By	J ROSOWSKI
FD450 OUTSWING		Drawn	450FD1-NOA
NTS		DWG	3 OF 17
Scale		Sheet	A
Series Desc.		Title	



## STD. HARDWARE



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-O' 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.

**PRODUCT REVISED**  
as complying with the Florida  
Building Code

**NOA-No.** 20-0619.08

**Expiration Date** 11/09/2021

By Ishaq I. Chank  
Miami-Dade Product Control

REVISIONI:

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

REGISTRATION #29296

Date	06/12/2020
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Rev.	A
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DWG No.	450FD1-NOA
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17

OF

4

5

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Scale	
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Only

TSL

20

450

11
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**WINDOOR®**  
**INCORPORATED**  
104 TRIPLE DIAMOND BLVD.  
N. VENICE, FL 34275  
(407) 481-8400

450 ALUM. FRENCH DOOR -

NTS

Scale	
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no

450

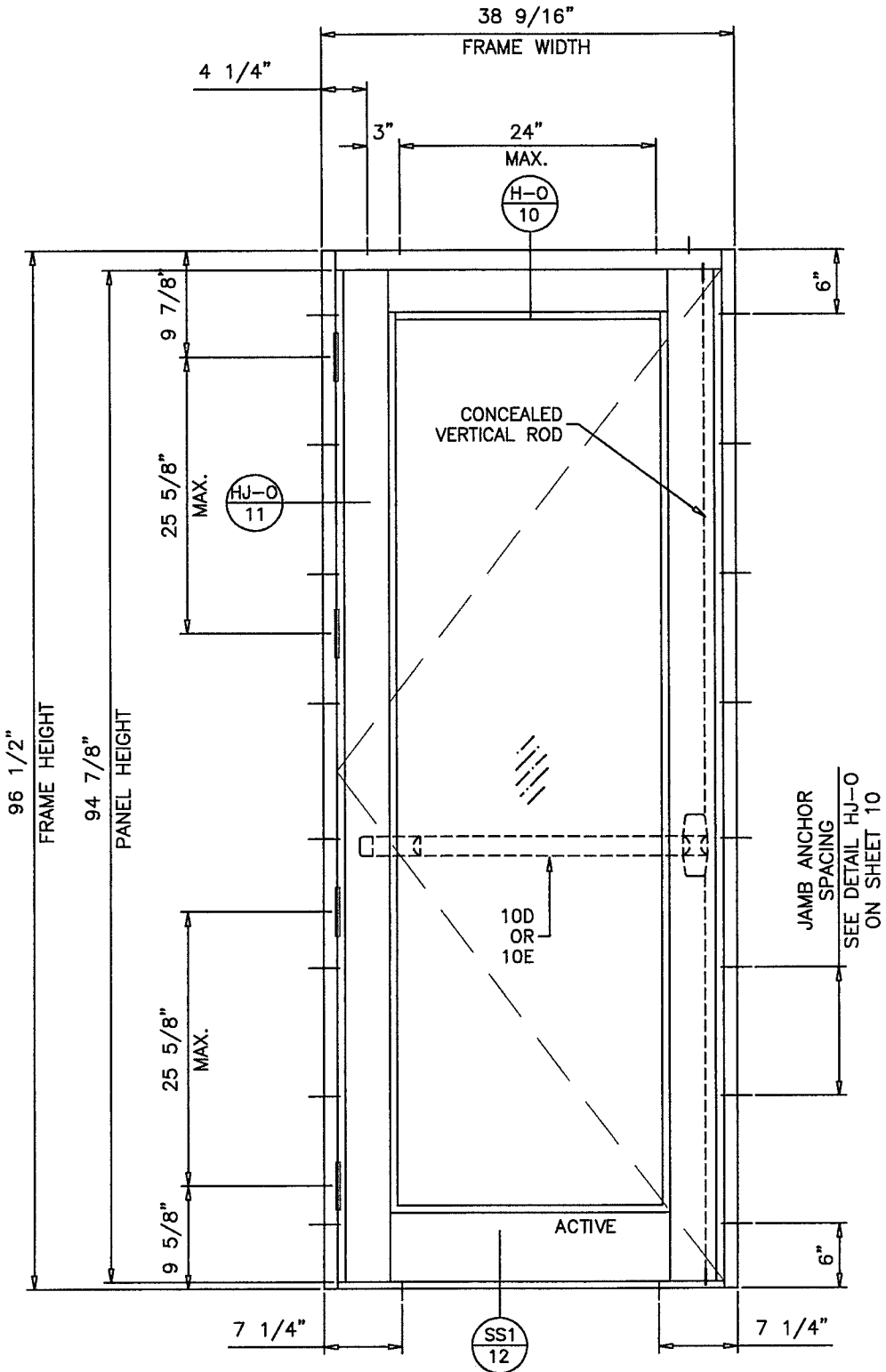
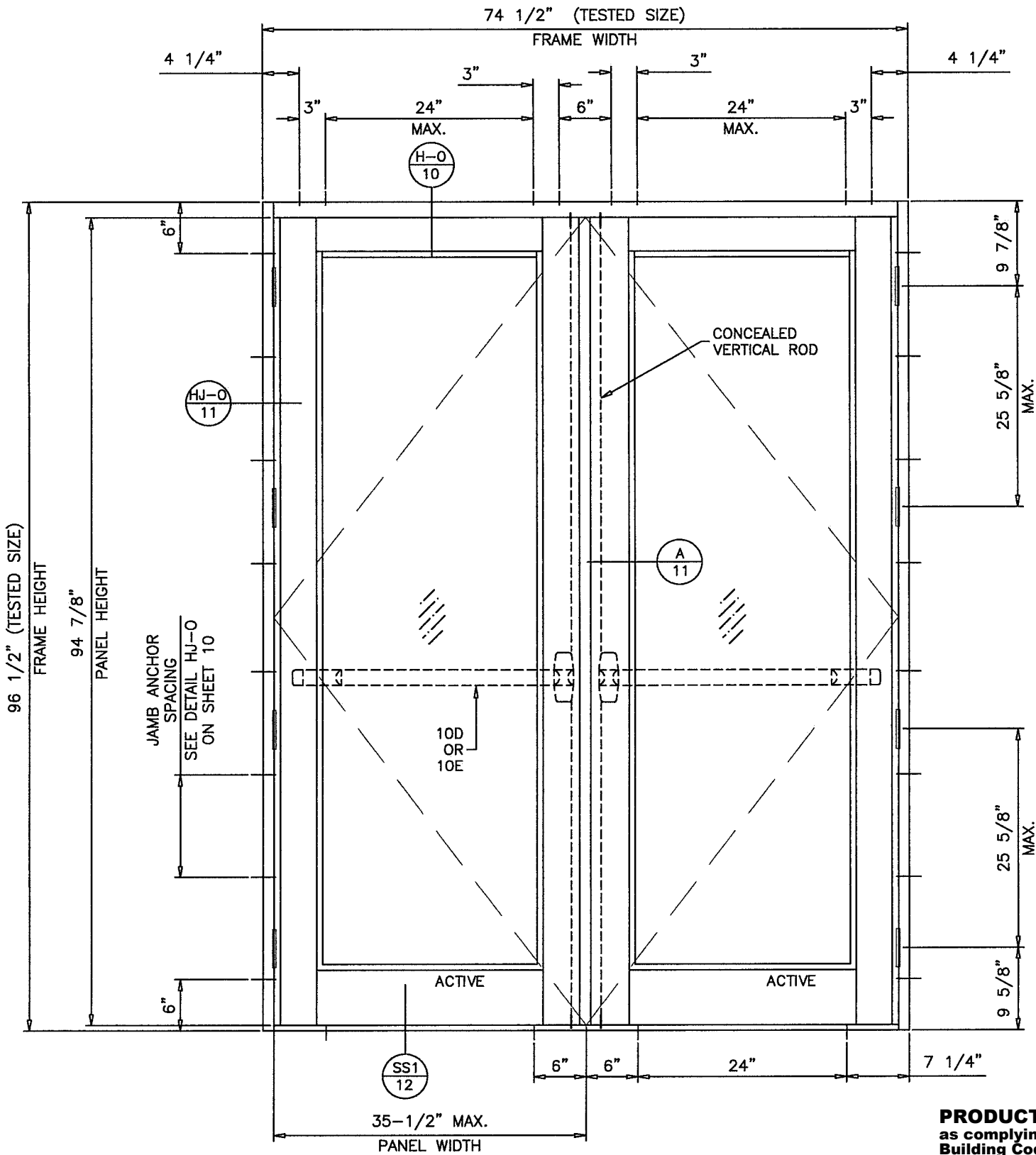
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ANTHONY LYNN MILLER  
LICENSE  
No. 58705  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

az  
6/12/20

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

CVR PANIC HARDWARE

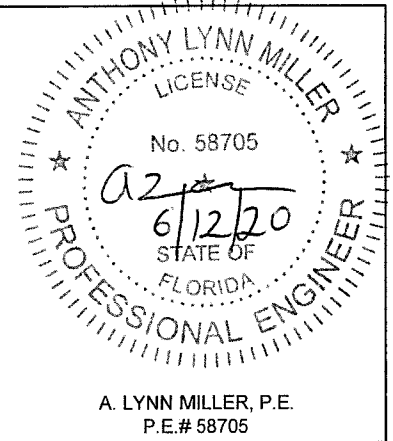


**PRODUCT REVISED**  
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NOA-No. 20-0619.08  
Expiration Date 11/09/2021  
By Ismael L. Chanda  
Miami-Dade Product Control

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

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



PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296	
WINDOOR® INCORPORATED 104 TRIPLE DIAMOND BLVD. N. VENICE, FL 34275 (407) 481-8400		450 ALUM. FRENCH DOOR - GLAZED & OS (LM)	
PANIC HARDWARE ANCHOR LAYOUT		J ROSOWSKI	
FD450 OUTSWING		5 OF 17	
NTS		450FD1-NOA	
Scale		A	
Series Desc.		Rev.	



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 CREEK 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

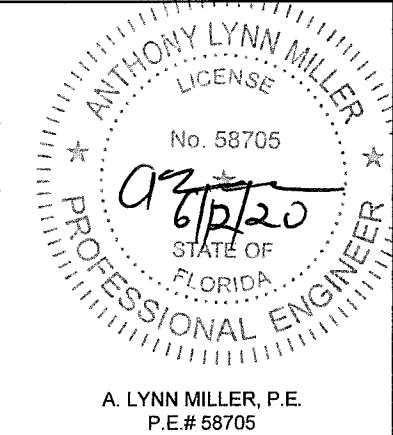
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**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0619.08  
Expiration Date 11/09/2021  
By Ishag I. Chanda  
Miami-Dade Product Control

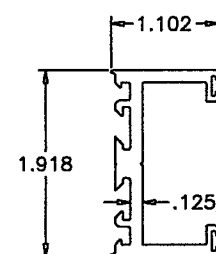
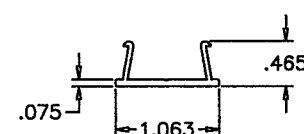
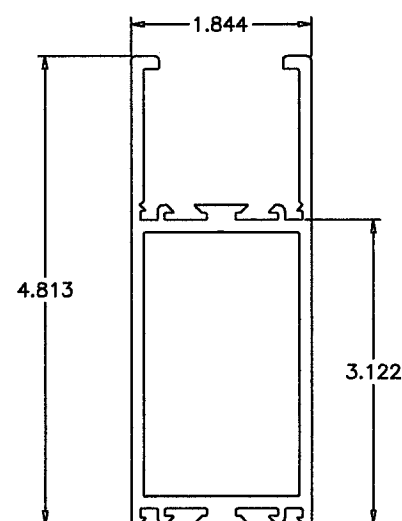
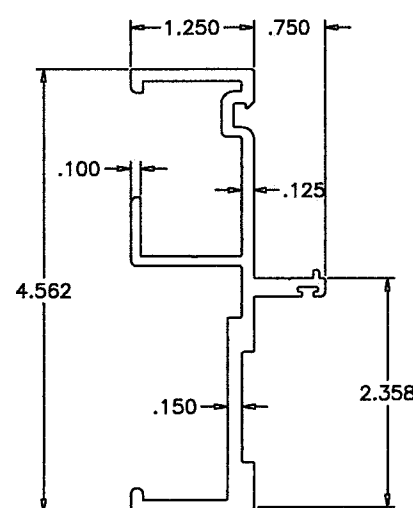
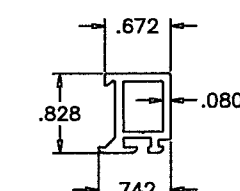
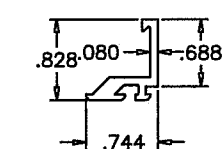
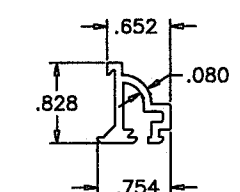
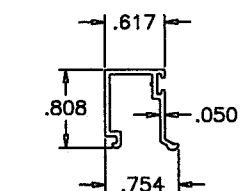
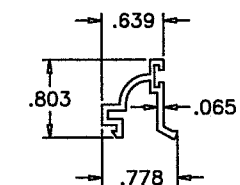
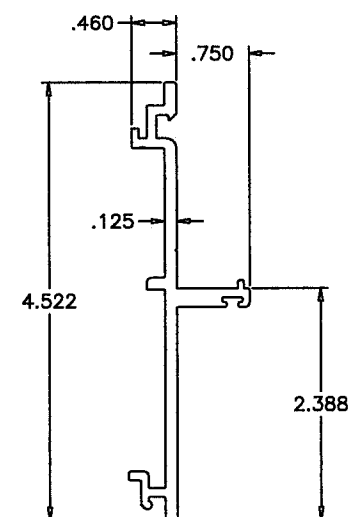
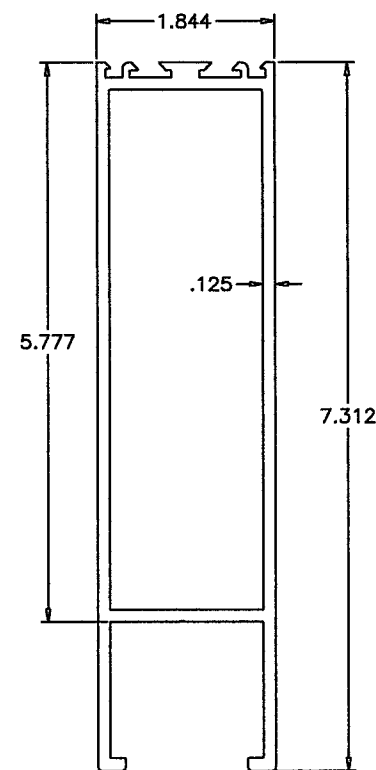
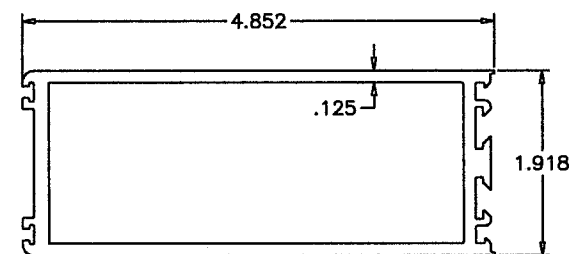
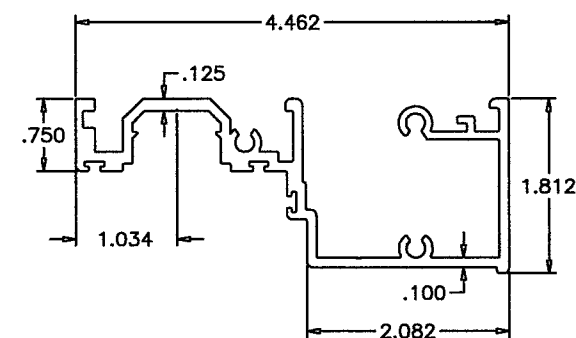
Material	Min. F <sub>y</sub>	Min. F <sub>u</sub>
#14 Steel Screw, Gr 5	81 ksi	105 ksi
1/4" Elco UltraCon	155 ksi	177 ksi
1/4" DeWalt UltraCon+	148 ksi	164 ksi
5/16" Elco UltraCon	155 ksi	177 ksi
5/16" DeWalt UltraCon+	155 ksi	177 ksi
6063-T5 Aluminum	16 ksi	22 ksi
A36 Steel	36 ksi	58 ksi
Gr. 33 Steel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

ADDED BACKBEDDING  
TYPES - JR - 6/11/20

WINDOOR® INCORPORATED 104 TRIPLE DIAMOND BLVD. N. VENICE, FL 34275 (407) 481-8400				REGISTRATION #29296				06/12/2020	
450 ALUM. FRENCH DOOR - GLAZED & OS (LM)				Date					
BILL OF MATERIALS				By		J ROSOWSKI			
FD450 OUTSWING		NTS		Sheet		6 OF 17		DWG No.	
450FD1-NOA		450FD1-NOA		Rev.		A			

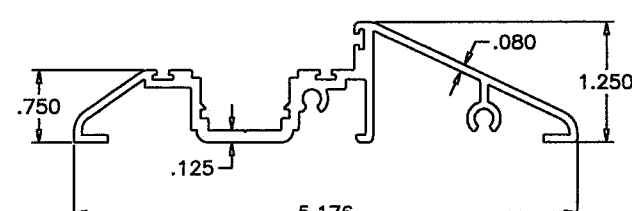
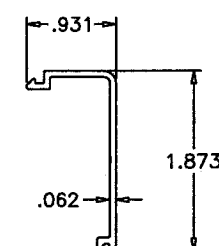
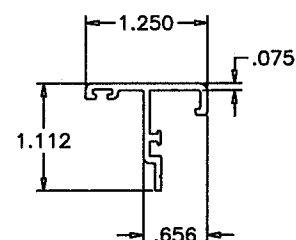
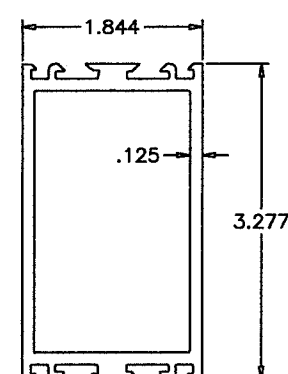
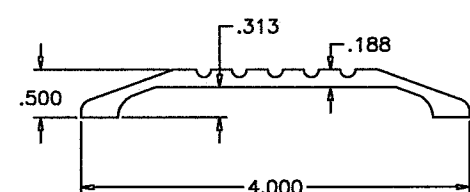


A. LYNN MILLER, P.E.  
P.E.# 58705



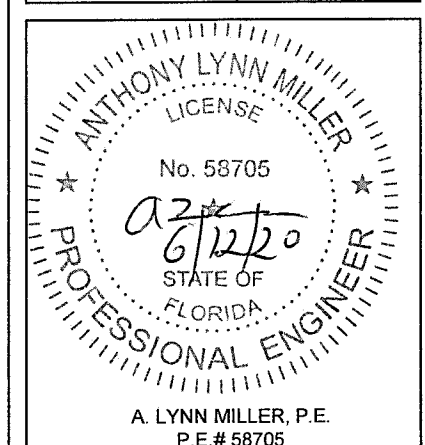
**Expiration Date** 11/09/2021

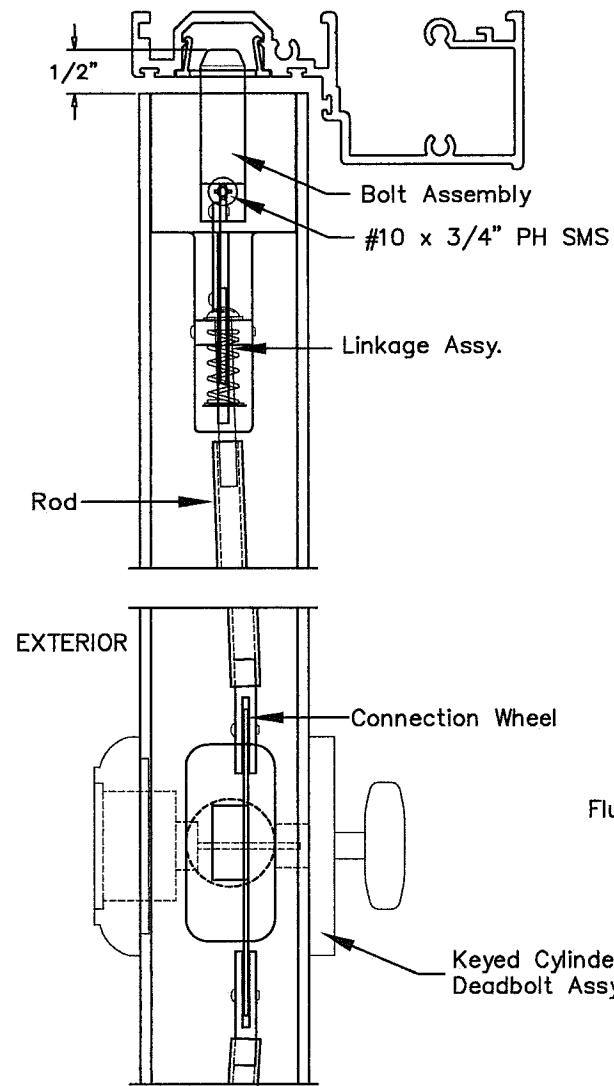
By Ishag I. Chande  
Miami-Dade Product Control



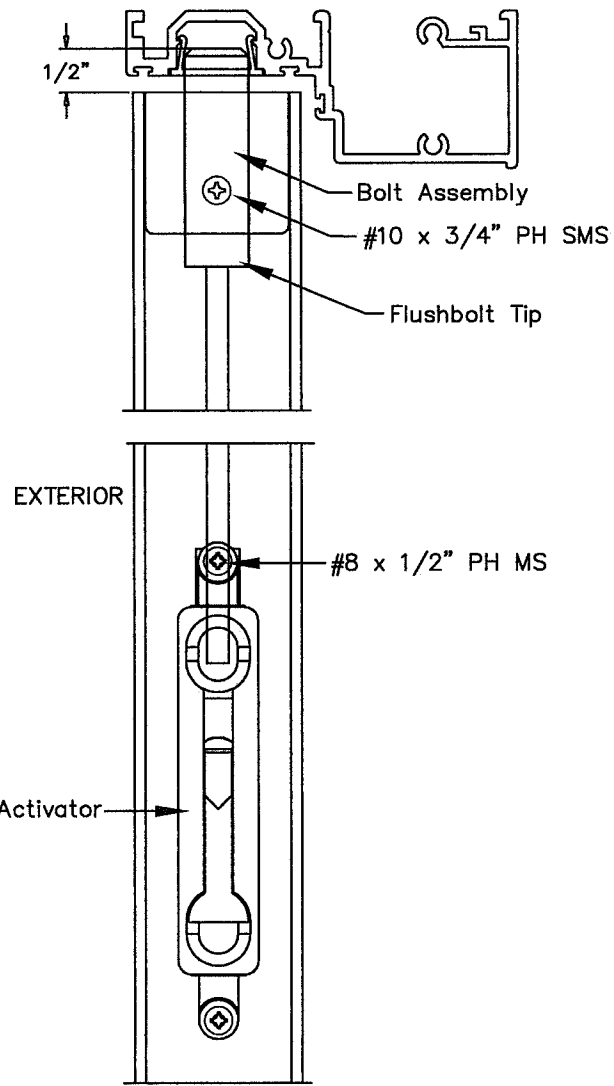
## GLAZING STOP OPTIONS

<b>WINDOOR®</b> <b>INCORPORATED</b> 104 TRIPLE DIAMOND BLVD. N. VENICE, FL 34275 (407) 481-8400		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
450 ALUM. FRENCH DOOR - GLAZED & OS (LM)		REGISTRATION #29296	
Series Desc.	Title	Date	06/12/2020
EXTRUSIONS		Drawn By	J ROSOWSKI
FD450 OUTSWING	Scale	NTS	Sheet
7 OF 17		DWG No.	450FD1-NOA
Rev.		A	



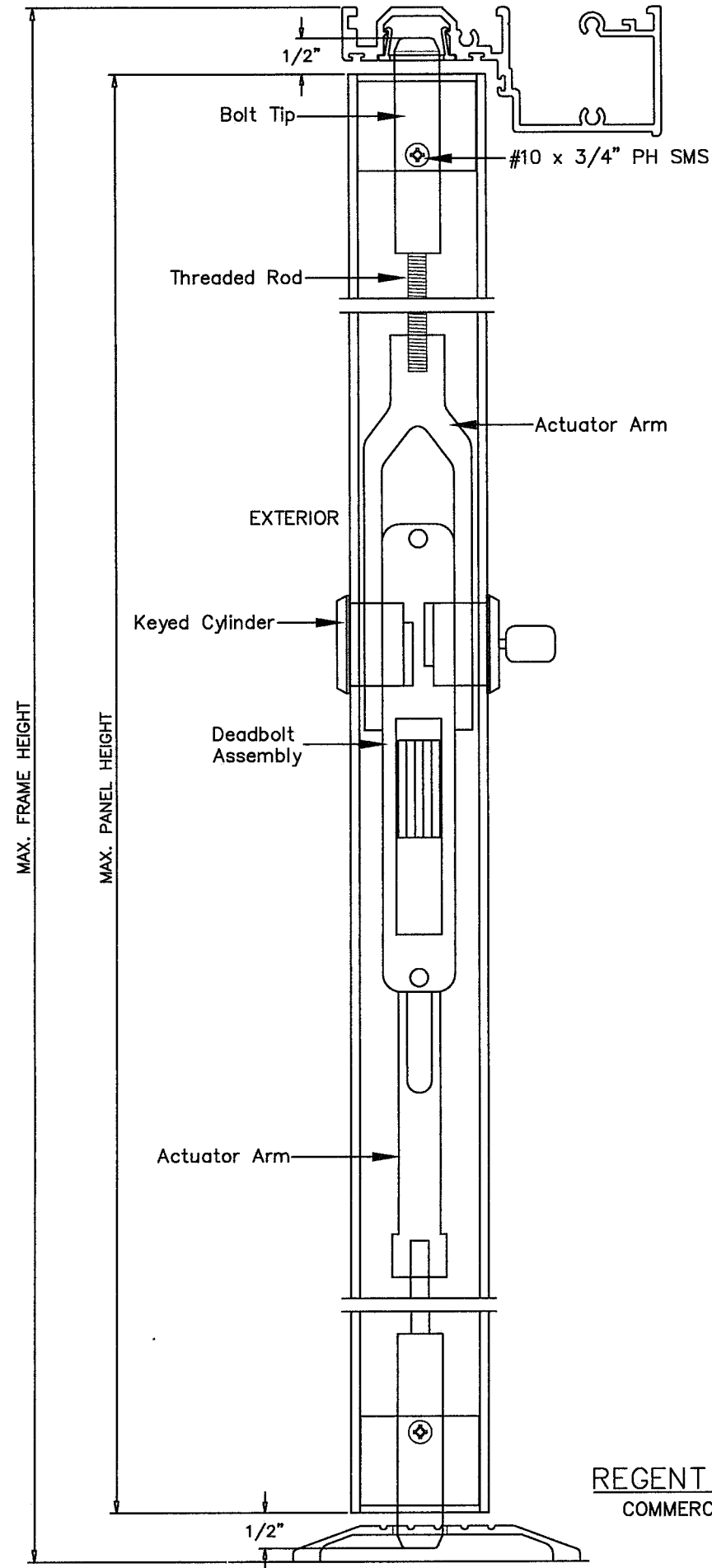


**CGI CUSTOM  
3-POINT LOCK**  
TOP SECTION SHOWN  
(BOTTOM SIMILAR)



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

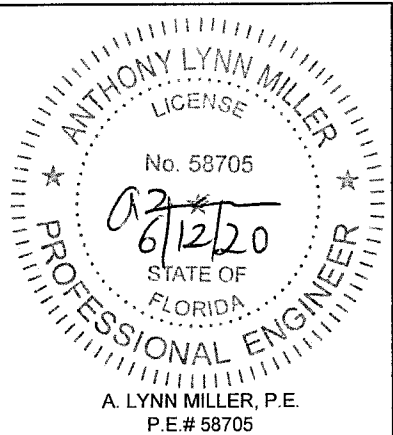
**PRODUCT REVISED**  
as complying with the Florida  
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By Isaac L. Chank  
Miami-Dade Product Control



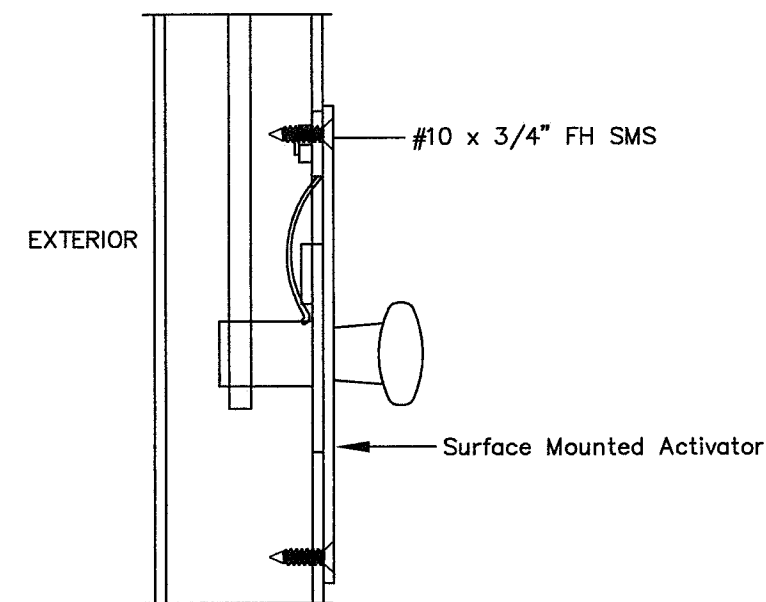
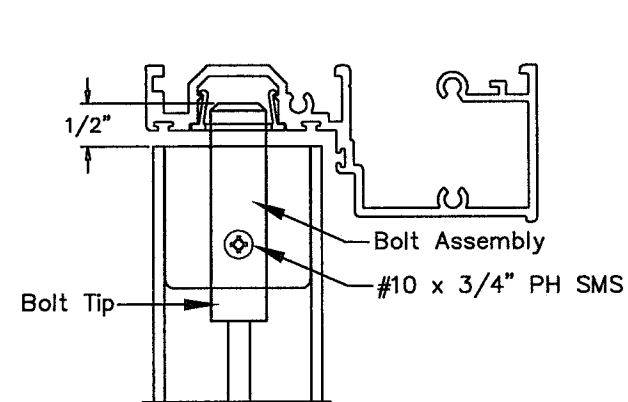
**REGENT 3 POINT  
COMMERCIAL LOCK**

Revision:

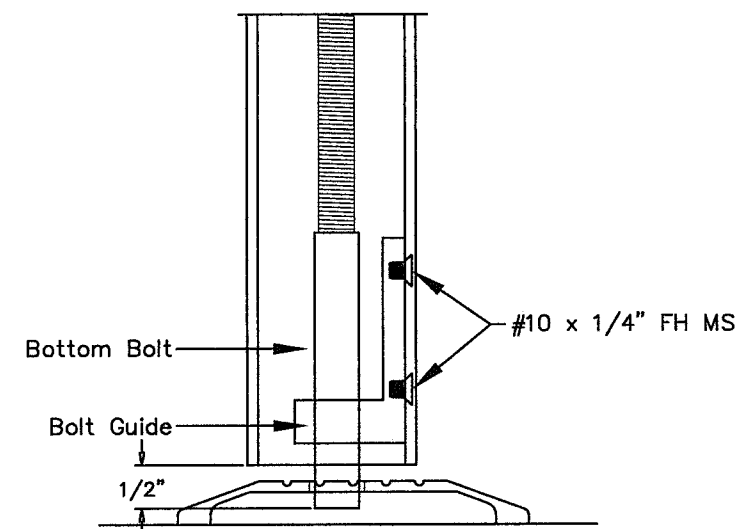
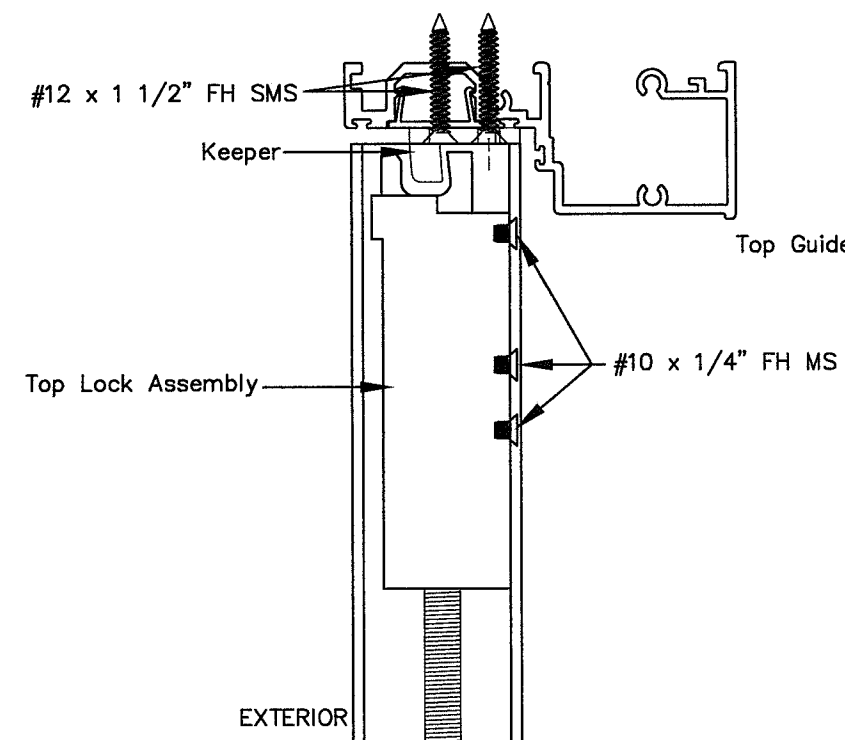
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				REGISTRATION #29296			
450 ALUM. FRENCH DOOR - GLAZED & OS (LM)		Date		06/12/2020			
HARDWARE DETAILS 1		Drawn By		J ROSOWSKI			
FD450 OUTSWING		Scale		NTS		Sheet	
Series		Desc.		Title		Rev.	
						A	
						450FD1-NOA	
						8 OF 17	
						DWG	
						No.	



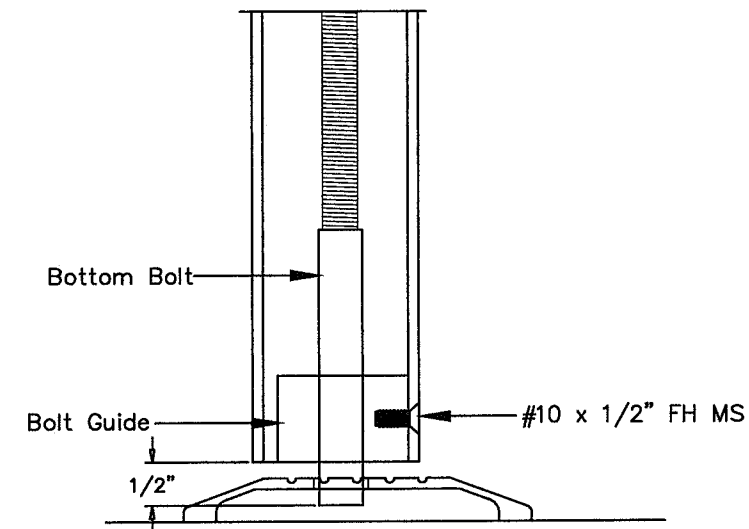
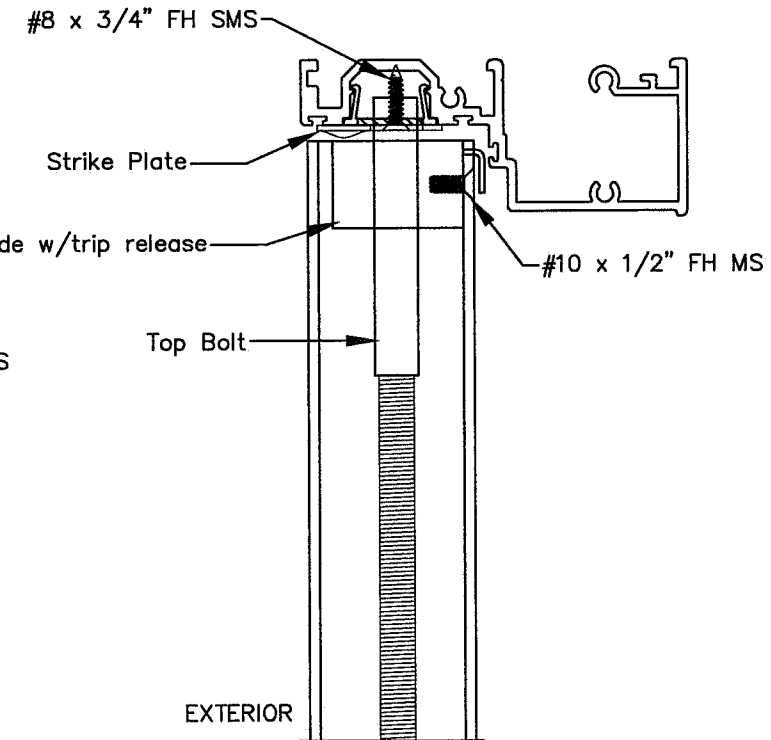




**SURFACE MOUNT SLIDE  
BOLT WITH BALDWIN  
DEAD BOLT**  
TOP SECTION SHOWN  
(BOTTOM SIMILAR)



**DOR-O-MATIC 1690**

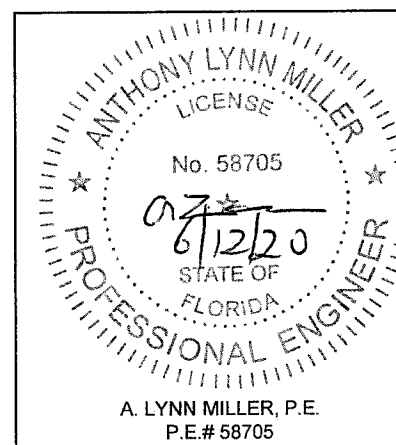


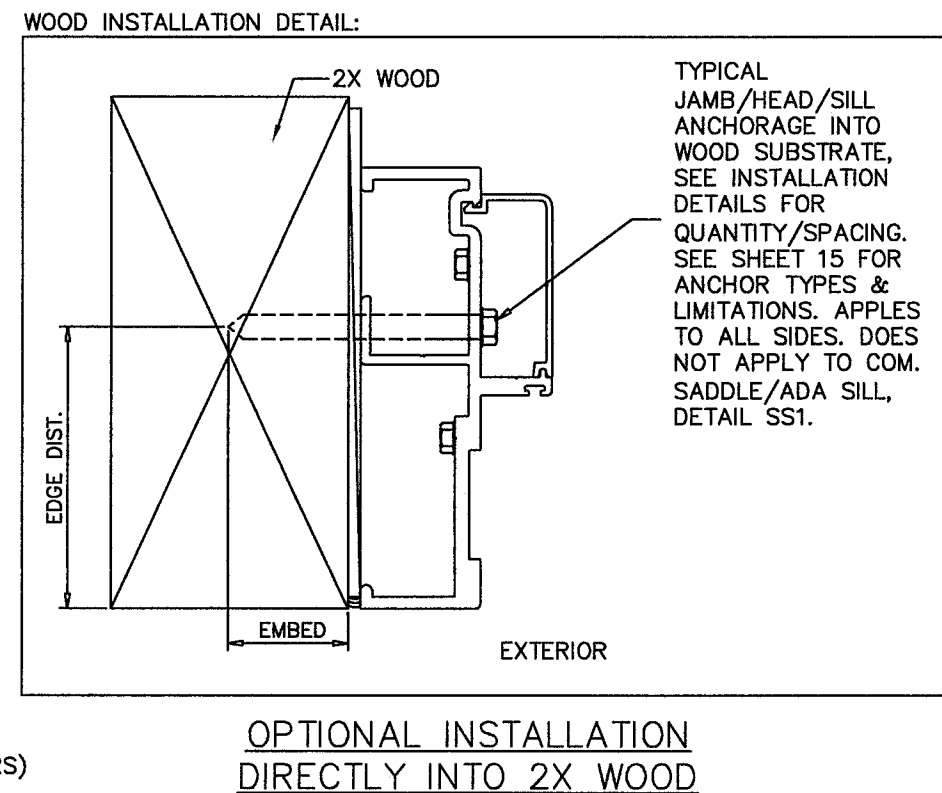
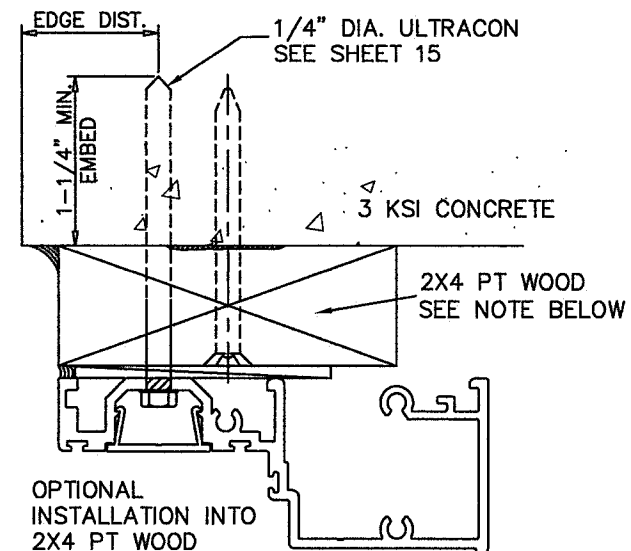
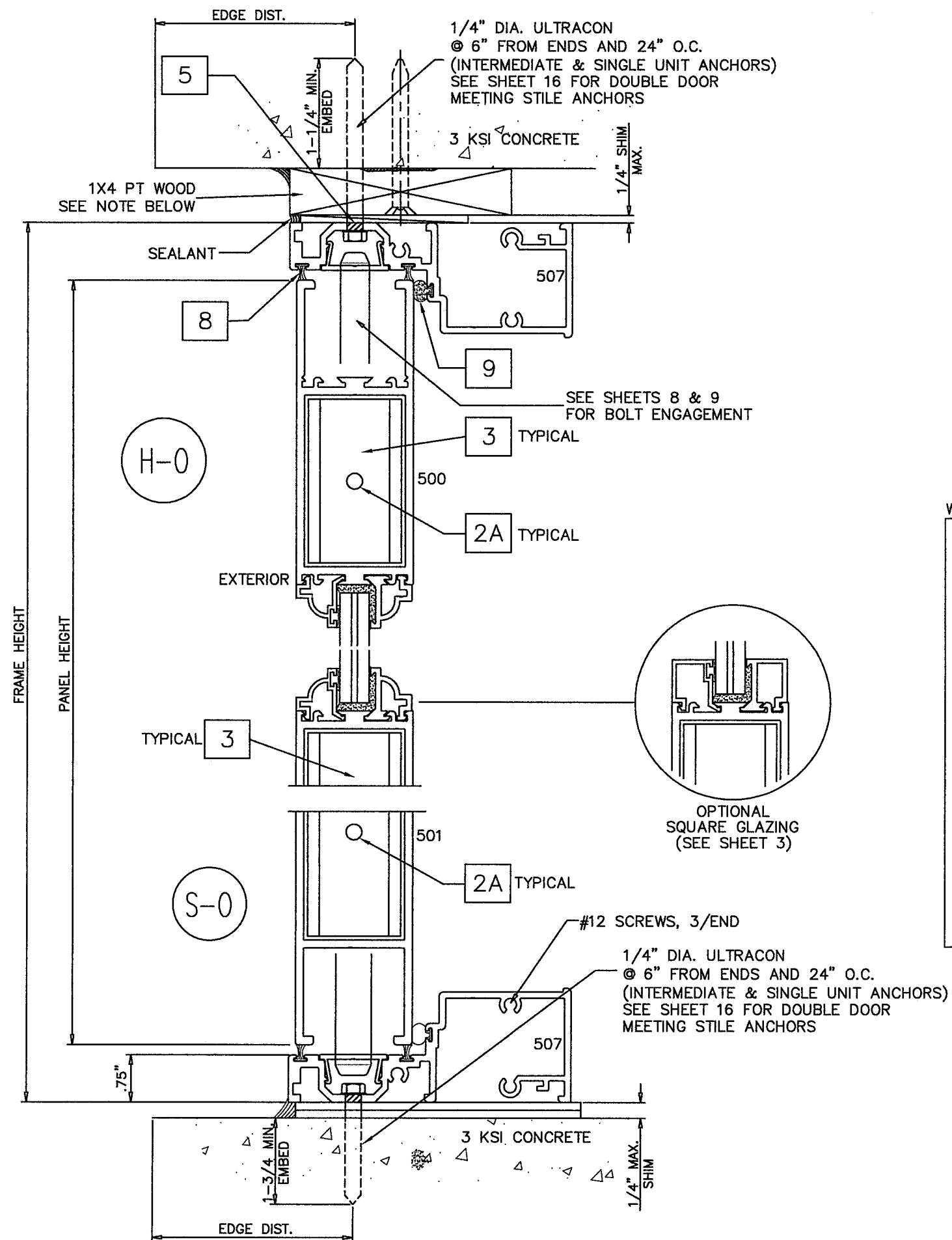
**JACKSON 2086I**

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0619.08  
Expiration Date 11/09/2021  
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	450 ALUM. FRENCH DOOR - GLAZED & OS (LM)	J ROSOWSKI	450FD1-NOA	A
WINDOOR® INCORPORATED 104 TRIPLE DIAMOND BLVD. N. VENICE, FL 34275 (407) 481-8400	450 ALUM. FRENCH DOOR - GLAZED & OS (LM)	HARDWARE DETAILS 2	FD450 OUTSWING	9 OF 17	NTS
450 ALUM. FRENCH DOOR - GLAZED & OS (LM)	HARDWARE DETAILS 2	FD450 OUTSWING	9 OF 17	NTS	A





NOTES:

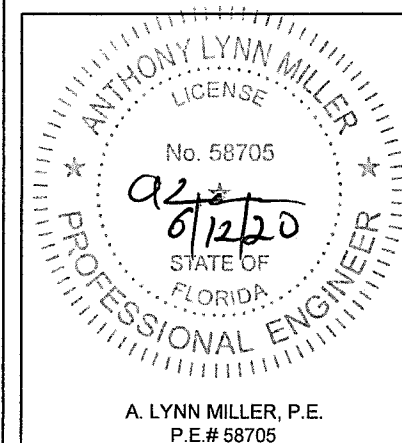
1) ALL JAMB ANCHOR CONDITIONS SHOWN ON SHEETS 10, 12 AND 13 MAY BE DIRECTLY TO MASONRY WITH 1/4" MAX. SHIM SPACE WITHOUT VARIATION IN CAPACITY.

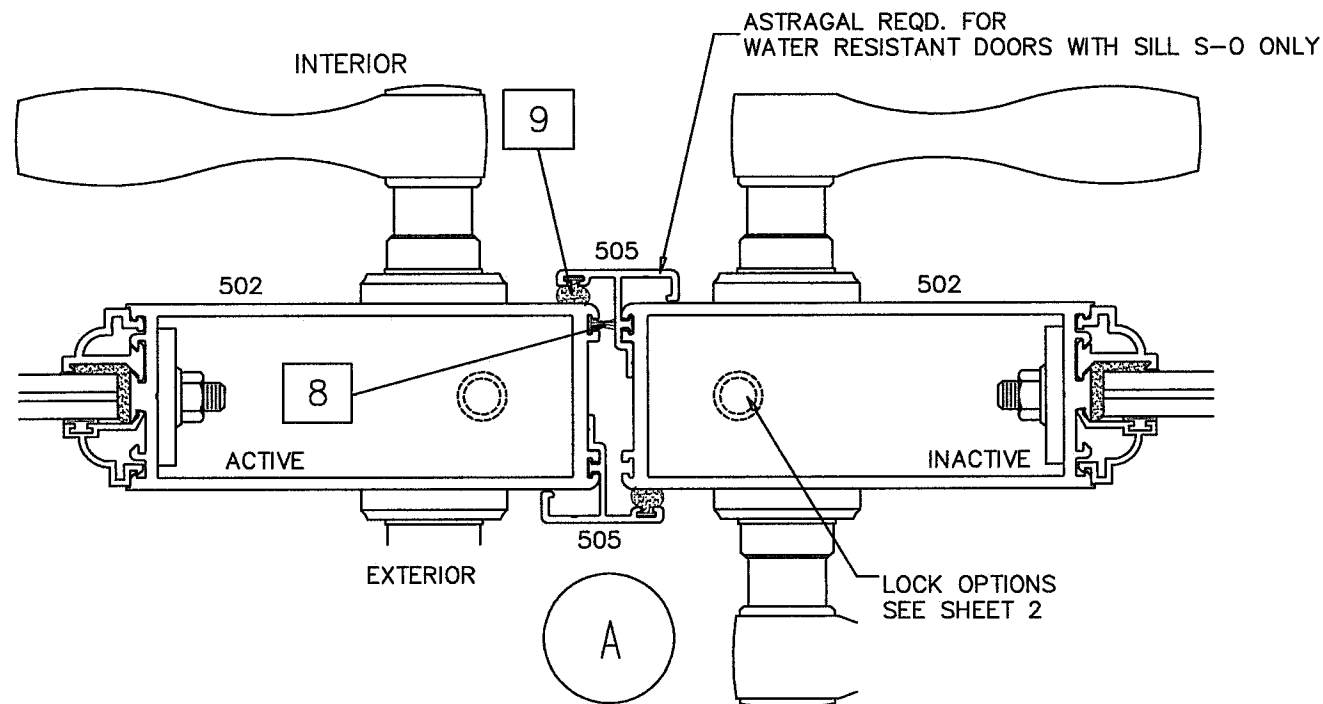
2) 1X OR 2X WOOD BUCKS NOT BY CGI MUST BE PROPERLY SECURED AND MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM.

**PRODUCT REVISED**  
as complying with the Florida  
**Building Code**  
**NOA-No.** 20-0619.08  
**Expiration Date** 11/09/2021  
**By** Ishag I. Lhanda  
**Miami-Dade Product Control**

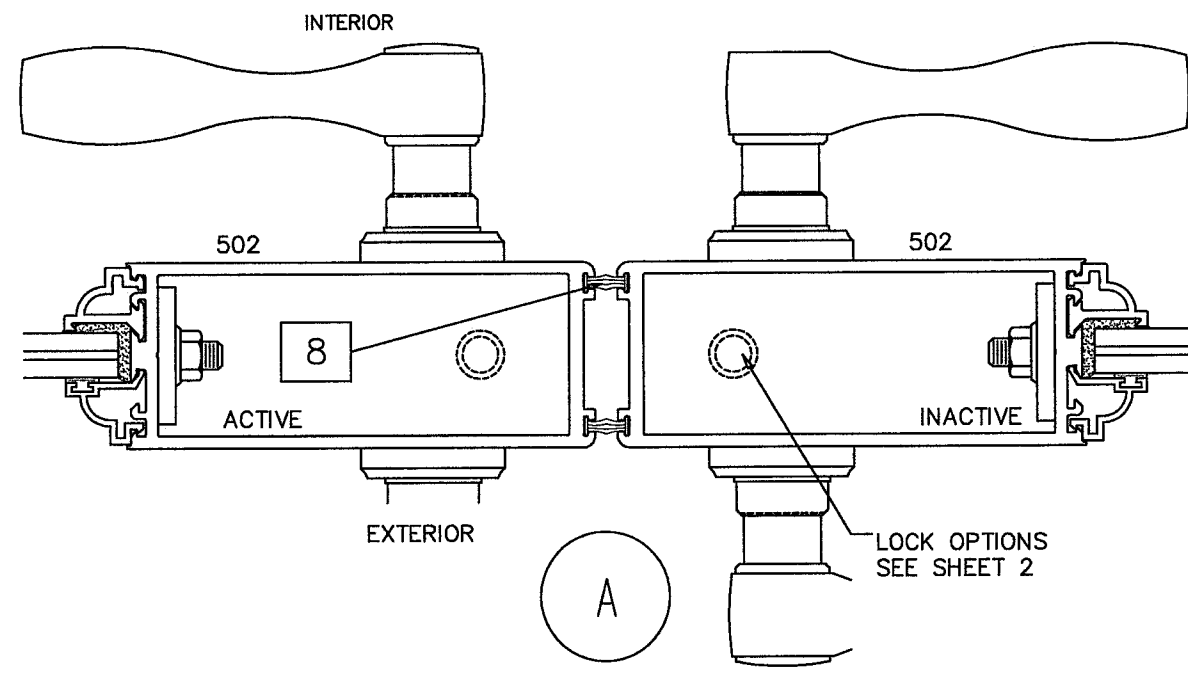
ADDED WOOD  
INSTALLATION DETAIL - JR -  
6/11/20

<b>WINDOOR®</b> <b>INCORPORATED</b> 104 TRIPLE DIAMOND BLVD. N. VENICE, FL 34275 (407) 481-8400		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 1		Drawn By	J ROSOWSKI
FD450 OUTSWING	NTS	sheet	10 OF 17
DWG	No.	450FD1-NOA	Rev. A

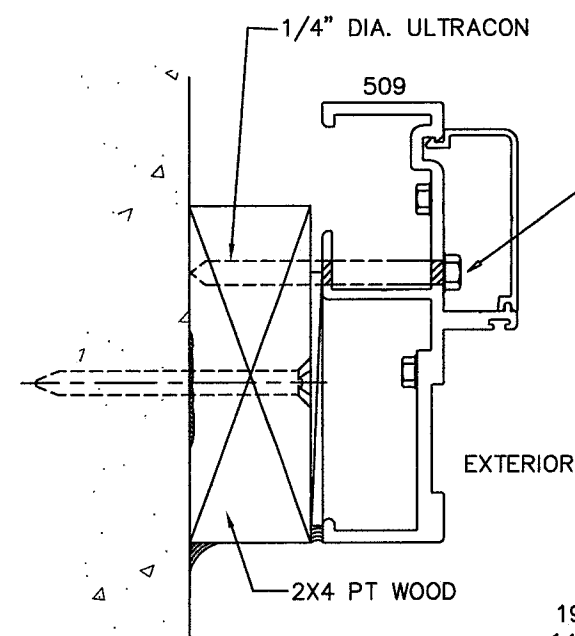




LOCK STILES WITH WATER RESISTANCE



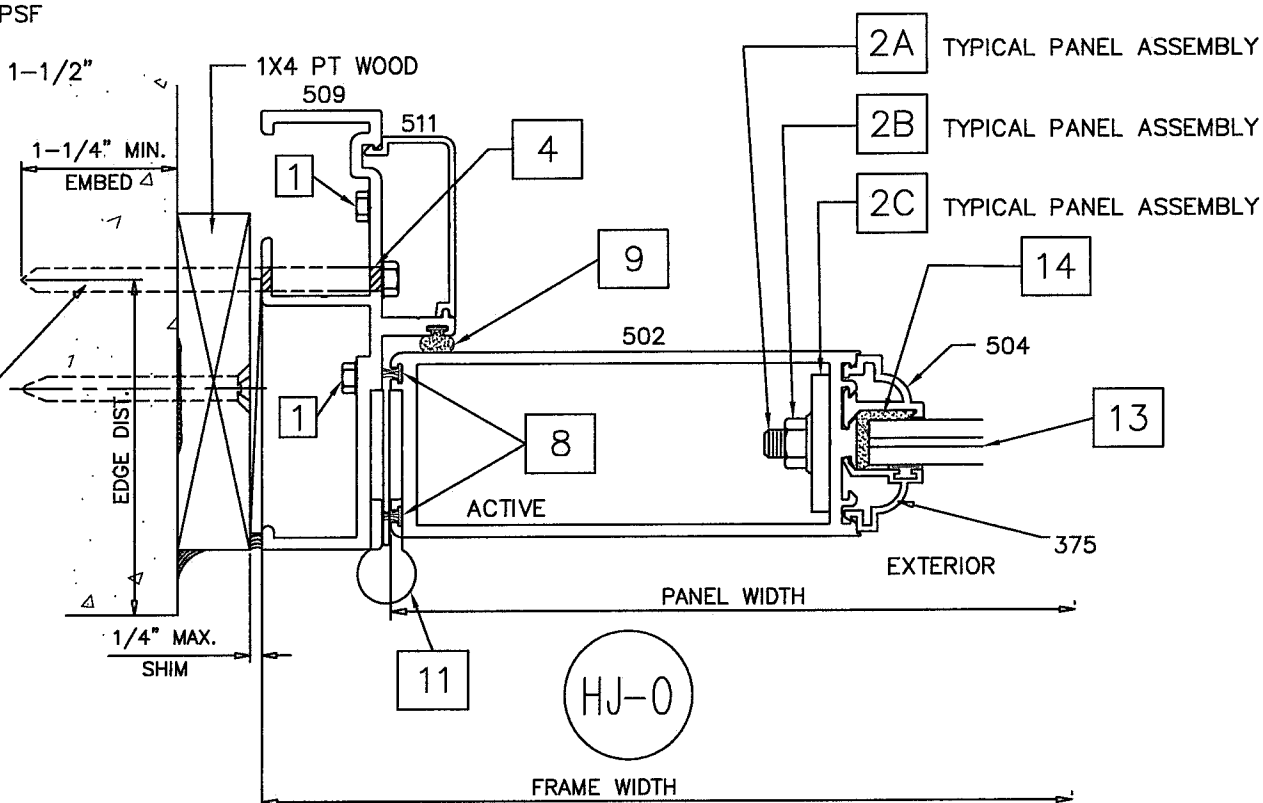
LOCK STILES WITHOUT WATER RESISTANCE



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.

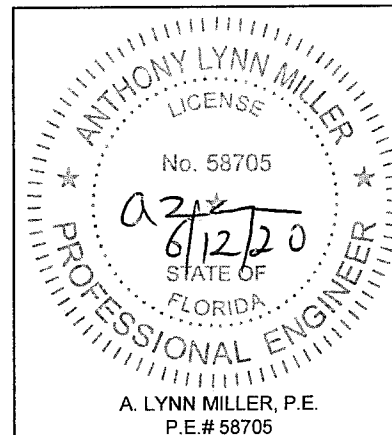


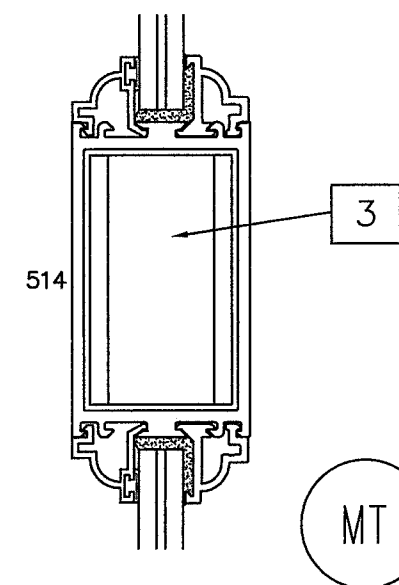
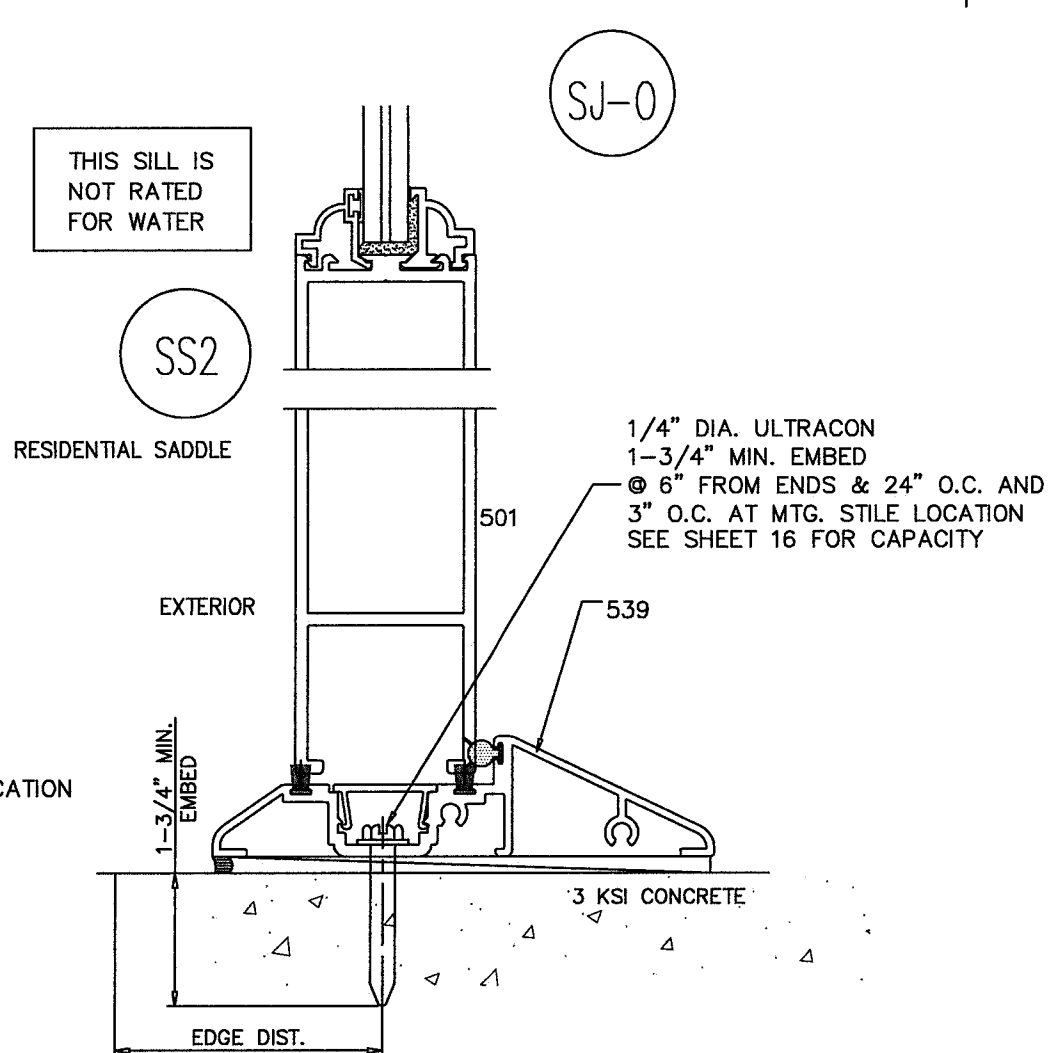
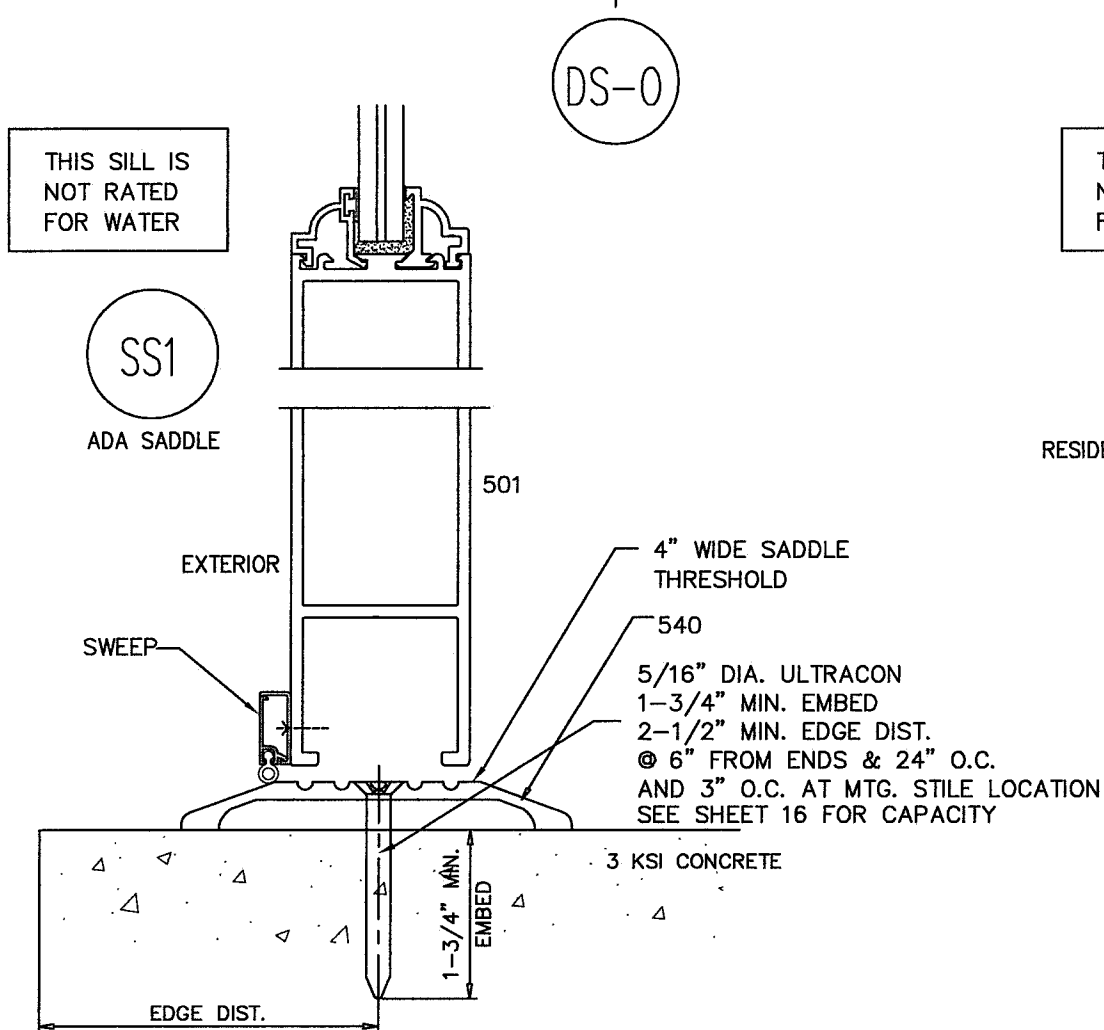
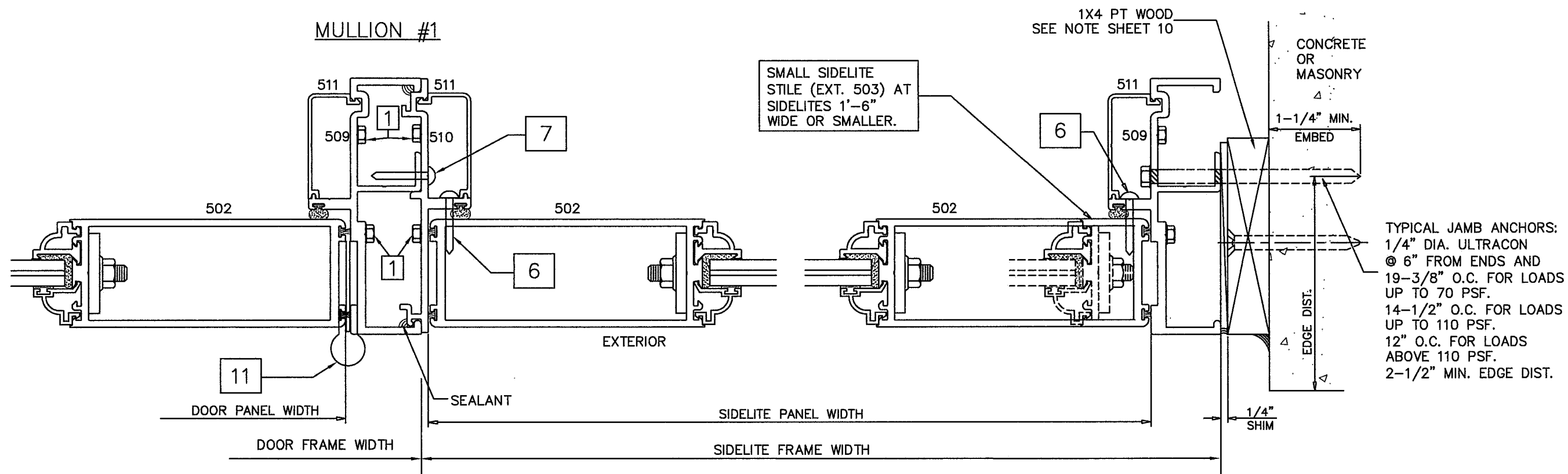
NOTE:  
1X OR 2X WOOD BUCKS NOT BY WINDOOR  
MUST BE PROPERLY SECURED AND MUST  
SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM.

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0619.08  
Expiration Date 11/09/2021  
By *Ismael I. Chanda*  
Miami-Dade Product Control

Revision:

WINDOOR <sup>®</sup>				PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600			
INCORPORATED				REGISTRATION #29296			
104 TRIPLE DIAMOND BLVD. N. VENICE, FL 34275 (407) 481-8400				450 ALUM. FRENCH DOOR - GLAZED & OS (LM)			
INSTALLATION DETAILS 2				Date		06/12/2020	
series		DWG No.		By		J ROSOWSKI	
FD450 OUTSWING		11 OF 17		Drawn		450FD1-NOA	
NTS		sheet		Rev.		A	

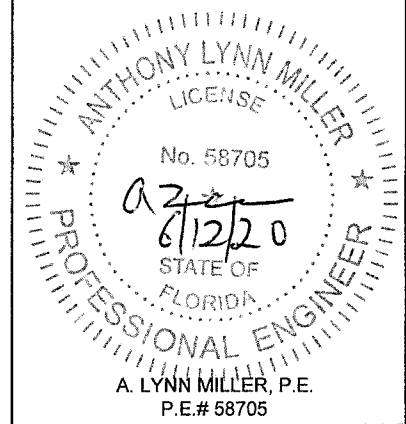




REFER TO SHEET 6 OF 17 FOR  
TYPICAL BILL OF MATERIALS

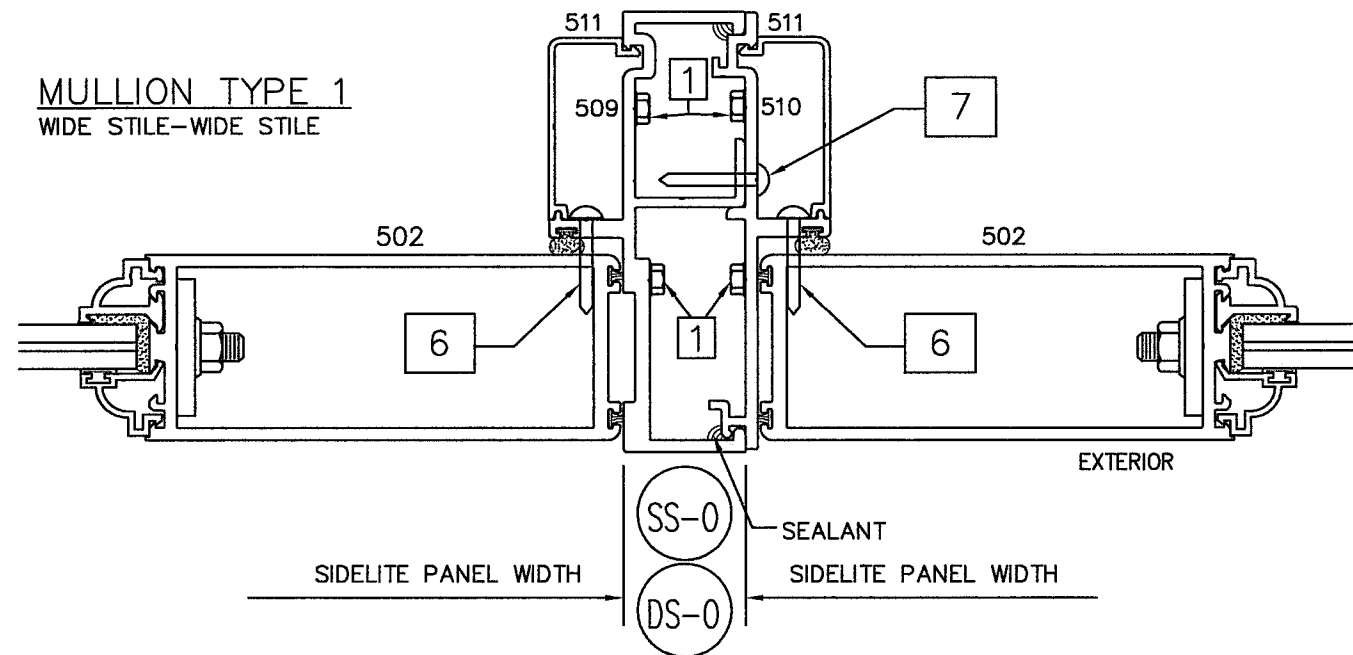
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0619.08  
Expiration Date 11/09/2021  
By *Ishag I. Chande*  
Miami-Dade Product Control

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	06/12/2020	Rev.	A
		By	J ROSOWSKI	No.	450FD1-NOA
		Drawn		DWG	
				12 OF 17	
<b>WINDOOR®</b> INCORPORATED 104 TRIPLE DIAMOND BLVD. N. VENICE, FL 34275 (407) 481-8400	450 ALUM. FRENCH DOOR - GLAZED & OS (LM)	INSTALLATION DETAILS 3	FD450 OUTSWING	Sheet	NTS
				Scale	
				Series	
				Title	

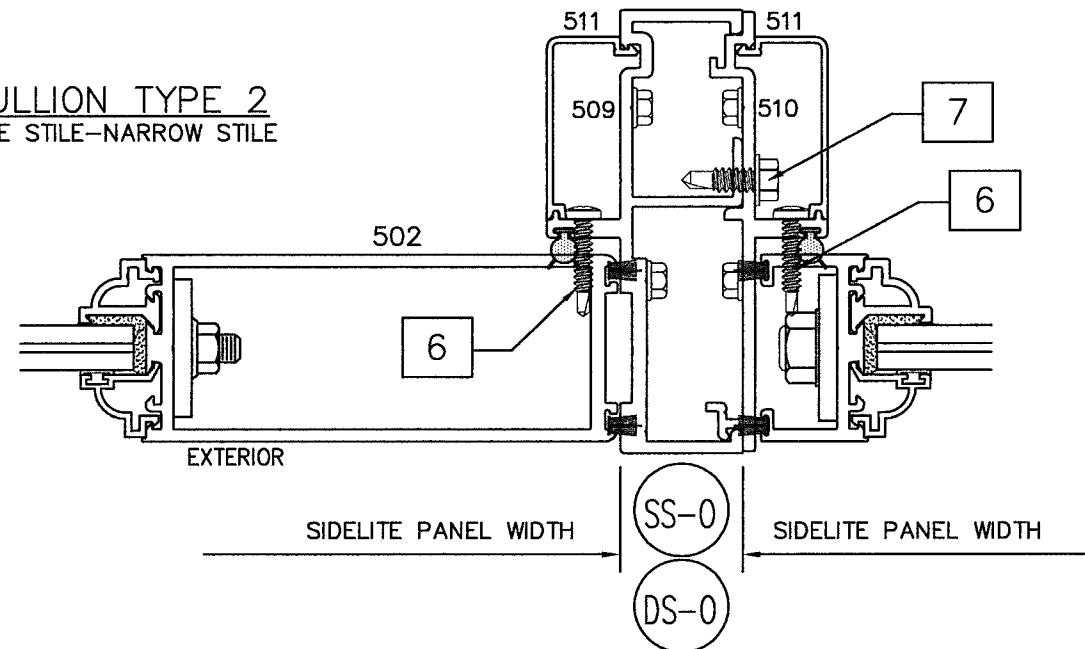




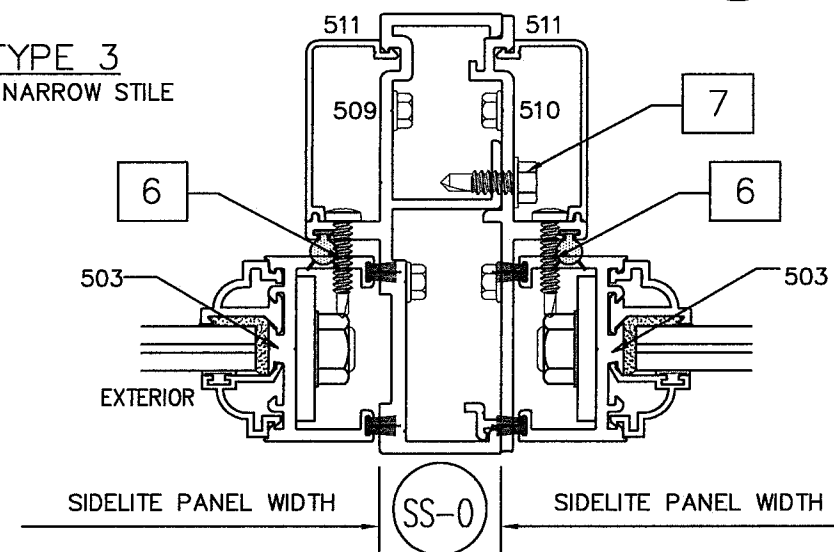
MULLION TYPE 1  
WIDE STILE-WIDE STILE



MULLION TYPE 2  
WIDE STILE-NARROW STILE



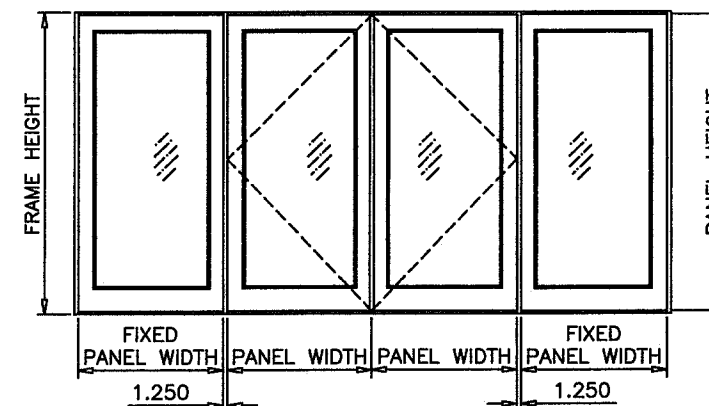
MULLION TYPE 3  
NARROW STILE-NARROW STILE



- 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.

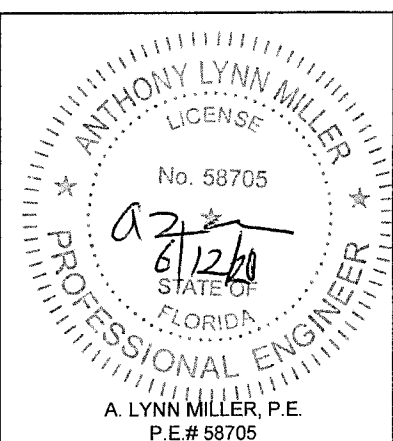
MULLION PERFORMANCE CHART DESIGN LOAD CAPACITY - PSF							
NOMINAL DIMS.		MULL TYPE 1		MULL TYPE 2		MULL TYPE 3	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
1/6	82-3/4"	100.0	110.0	100.0	110.0	100.0	110.0
2/0		100.0	110.0	100.0	110.0	100.0	110.0
2/6		100.0	110.0	100.0	110.0	-	-
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	110.0	-	-
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	-	-	-	-
3/6		-	-	-	-	-	-
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	-	-	-	-
3/6		-	-	-	-	-	-
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	-	-	-	-
3/6		-	-	-	-	-	-

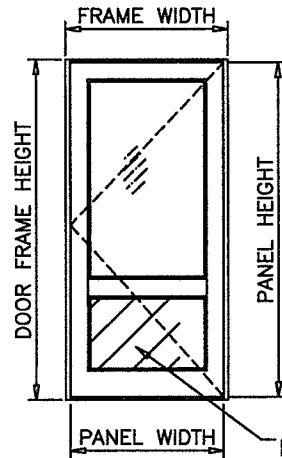
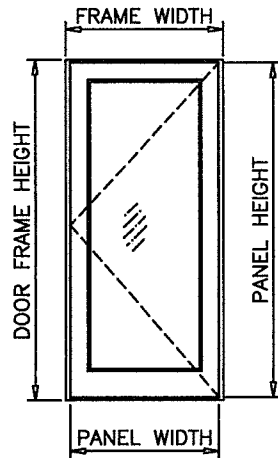
$$\text{WIDTH (W)} = \frac{\text{DOOR PANEL} + \text{FIXED PANEL}}{2} + 1.250$$



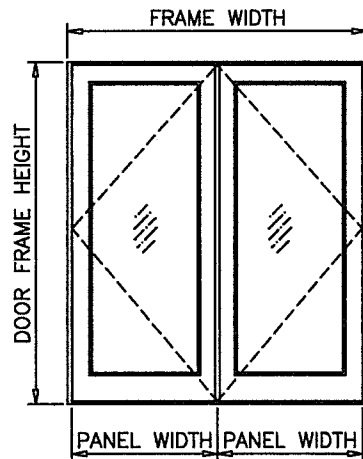
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0619.08  
Expiration Date 11/09/2021  
By *Isang I. Chandra*  
Miami-Dade Product Control

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	450 ALUM. FRENCH DOOR - GLAZED & OS (LM)	J ROSOWSKI	450FD1-NOA	A
WINDOOR® INCORPORATED 104 TRIPLE DIAMOND BLVD. N. VENICE, FL 34275 (407) 481-8400	450 ALUM. FRENCH DOOR - GLAZED & OS (LM)	MULLION X-SECTION AND DPS	FD450 OUTSWING	13 OF 17	NTS





PARTIAL COMPOSITE PANEL  
OR GLASS APPLICABLE TO  
DOOR/SIDELITE



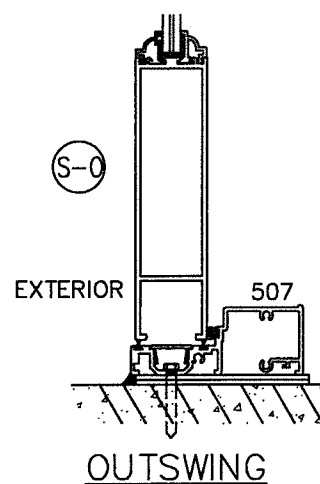
#### NOTES:

- 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.

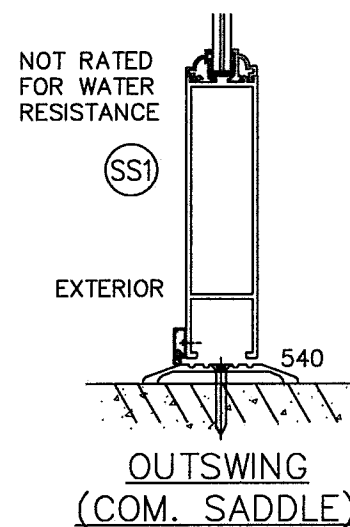
PANEL PERFORMANCE CHART FOR SINGLE & DOUBLE DOORS & SINGLE SIDELITES (NARROW STILE SIDELITES LIMITED TO 18" OR LESS) DESIGN LOAD CAPACITY - PSF									
NOMINAL DIMS.			GLASS TYPE 'A' 7/16" COMPOSITE PANELS		GLASS TYPE 'A1'		GLASS TYPES 'B' & 'B1'		
FRAME WIDTH (X)	FRAME WIDTH (XX)	FRAME HEIGHT	EXT. (+)	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.

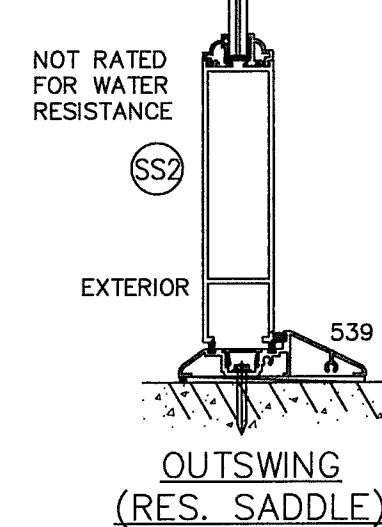
\* GLASS LIMITED TO 8/0 DAYLITE OPENING. PANEL SIZES ABOVE 8/0 REQUIRE TRUE MUNTIN.



OUTSWING



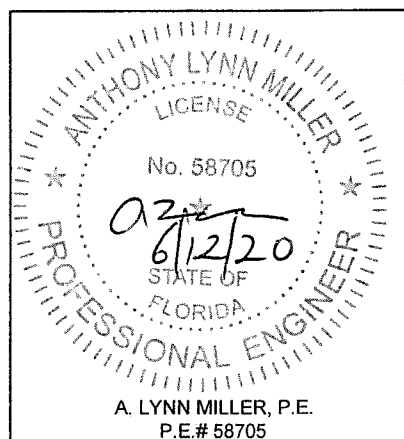
OUTSWING  
(COM. SADDLE)



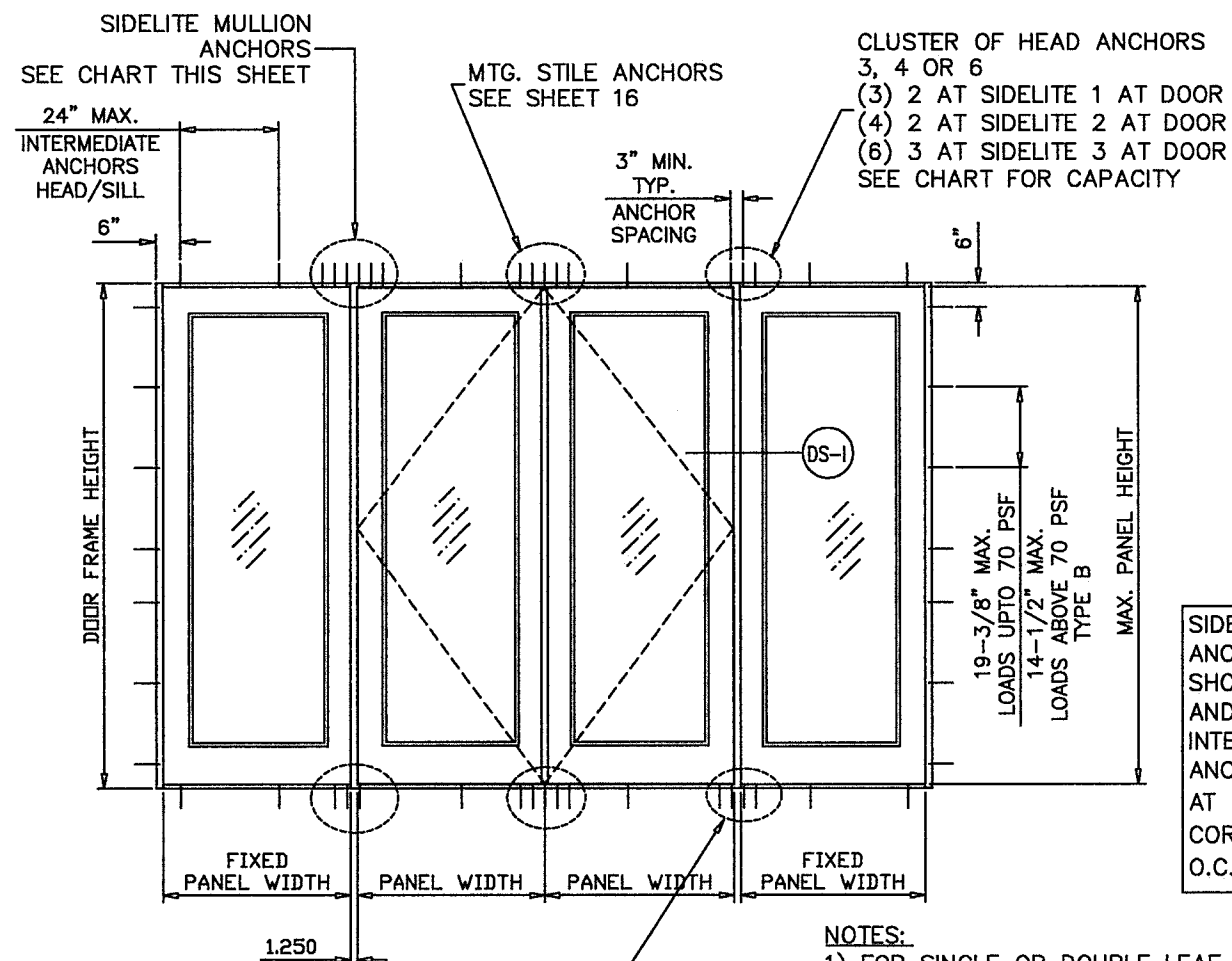
OUTSWING  
(RES. SADDLE)

**PRODUCT REVISED**  
as complying with the Florida  
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NOA-No. 20-0619.08  
Expiration Date 11/09/2021  
By *Isheq L. Chanik*  
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	
WINDOOR® INCORPORATED 104 TRIPLE DIAMOND BLVD. N. VENICE, FL 34275 (407) 481-8400		450 ALUM. FRENCH DOOR - GLAZED & OS (LM)		PANEL DP		FD450 OUTSWING		14 OF 17	
Sheet		NTS		Scale		DWG		No.	
450FD1-NOA		450FD1-NOA		450FD1-NOA		450FD1-NOA		450FD1-NOA	







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

#### 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" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)  
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
1-1/2" MIN. PENETRATION INTO WOOD  
THRU 1BY WOOD BUCKS INTO CONC./HOLLOW BLOCK  
1-1/4" MIN. EMBED INTO CONC./HOLLOW BLOCK  
DIRECTLY INTO CONCRETE  
1-1/4" MIN. EMBED INTO CONCRETE  
**EDGE DISTANCES**  
INTO CONCRETE/HOLLOW BLOCK = 2-1/2" MIN.  
INTO WOOD STRUCTURE = 1" MIN.

TYPE 'B+'- 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)  
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
1-1/2" MIN. PENETRATION INTO WOOD  
THRU 1BY WOOD BUCKS INTO CONC./HOLLOW BLOCK  
1-1/4" MIN. EMBED INTO HOLLOW BLOCK  
1-3/4" MIN. EMBED INTO CONCRETE  
DIRECTLY INTO CONCRETE  
1-3/4" MIN. EMBED INTO CONCRETE  
**EDGE DISTANCES**  
INTO CONCRETE/HOLLOW BLOCK = 2-1/2" MIN.  
INTO WOOD STRUCTURE = 1" MIN.

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.

TYPE 'C'- 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)  
1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)  
AT HEAD OR JAMBS  
DIRECTLY INTO CONCRETE  
1-3/4" MIN. EMBED INTO CONC.  
**EDGE DISTANCES**  
INTO CONCRETE = 2-1/2" MIN.

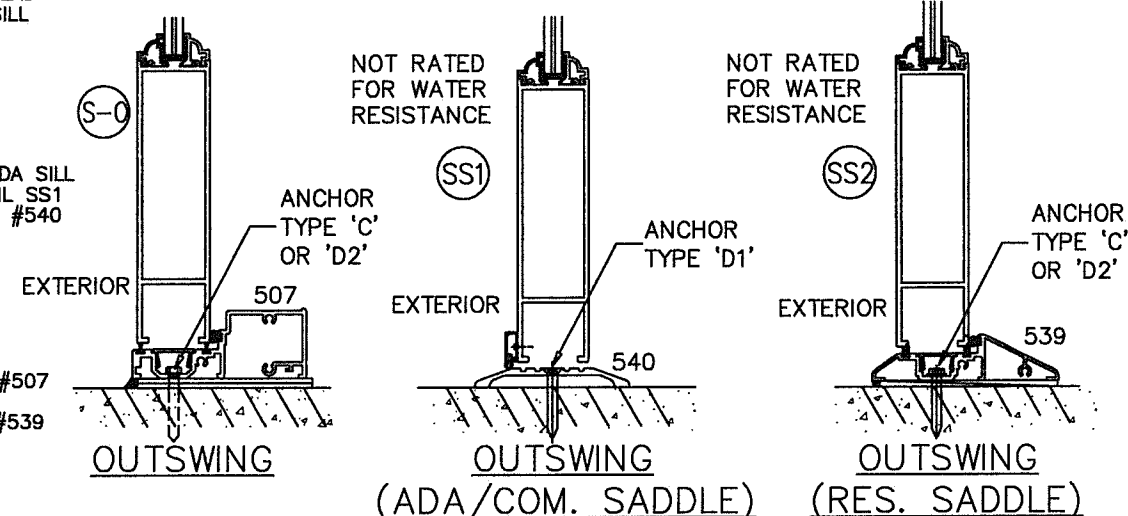
TYPE 'D1'- 5/16" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)  
5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)  
AT HEAD OR JAMBS  
DIRECTLY INTO CONCRETE  
1-3/4" MIN. EMBED INTO CONC.  
**EDGE DISTANCES**  
INTO CONCRETE = 3-1/8" MIN.

TYPE 'D2'- #14 SMS (GRADE 5 CRS)  
INTO WOOD STRUCTURES  
WITH 1-3/8" MIN. PENETRATION INTO WOOD  
**EDGE DISTANCES**  
INTO WOOD = 1" MIN.

MULLION ANCHORS AT SIDELITES								
DESIGN LOAD CAPACITY-PSF								
NOMINAL DIMS.		TYPE 'B' OR 'B+' AT HEAD			TYPE 'C' AT HEAD		TYPE 'C' AT HEAD	
WIDTH (W)	FRAME HEIGHT	CLUSTER OF 3 ANCHORS	CLUSTER OF 4 ANCHORS	CLUSTER OF 6 ANCHORS	CLUSTER OF 3 ANCHORS	CLUSTER OF 4 ANCHORS	TYPE 'D1' AT SS1 SILL OR TYPE 'D2' AT S-I & SS2 SILL	CLUSTER OF 4 ANCHORS
2/0	82-3/4"	106.7	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
3/0		72.3	96.4	110.0	109.3	110.0	101.0	110.0
3/6		62.3	83.0	110.0	94.2	110.0	87.0	110.0
2/0	84-3/4"	104.2	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
3/0		70.6	94.1	110.0	106.7	110.0	98.7	110.0
3/6		60.8	81.1	110.0	91.9	110.0	85.0	108.7
2/0	90-3/4"	97.3	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
3/0		65.9	87.9	110.0	99.7	110.0	92.1	110.0
3/6		56.8	75.7	110.0	85.9	110.0	79.4	101.5
2/0	96-3/4"	91.2	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
3/0		61.9	82.5	110.0	93.5	110.0	86.4	110.0
3/6		53.3	71.0	106.5	80.5	107.4	74.4	95.2
2/0	102-3/4"	85.9	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
3/0		58.2	77.7	110.0	88.0	110.0	81.4	104.1
3/6		50.2	66.9	100.3	75.8	101.1	70.1	89.6
2/0	108-3/4"	81.2	108.2	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
3/0		55.0	73.4	110.0	83.2	110.0	76.9	98.3
3/6		47.9	64.5	100.3	71.8	101.1	66.1	86.6
2/0	114-3/4"	76.9	102.6	110.0	110.0	110.0	107.5	110.0
2/6		62.2	82.9	110.0	94.0	110.0	86.9	110.0
3/0		52.2	69.5	104.3	78.8	105.1	72.9	93.2
3/6		45.1	60.5	100.3	70.8	101.1	65.1	86.6
2/0	120-3/4"	73.1	97.5	110.0	110.0	110.0	102.2	110.0
2/6		59.1	78.8	110.0	89.3	110.0	82.5	105.6
3/0		49.6	66.1	99.1	74.9	99.9	69.2	88.6
3/6		42.5	58.1	95.1	67.8	95.9	62.2	81.6

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.

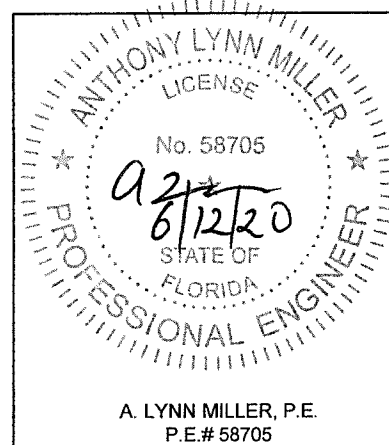
$$\text{WIDTH (W)} = \frac{\text{DOOR PANEL} + \text{FIXED PANEL}}{2} + 1.250$$



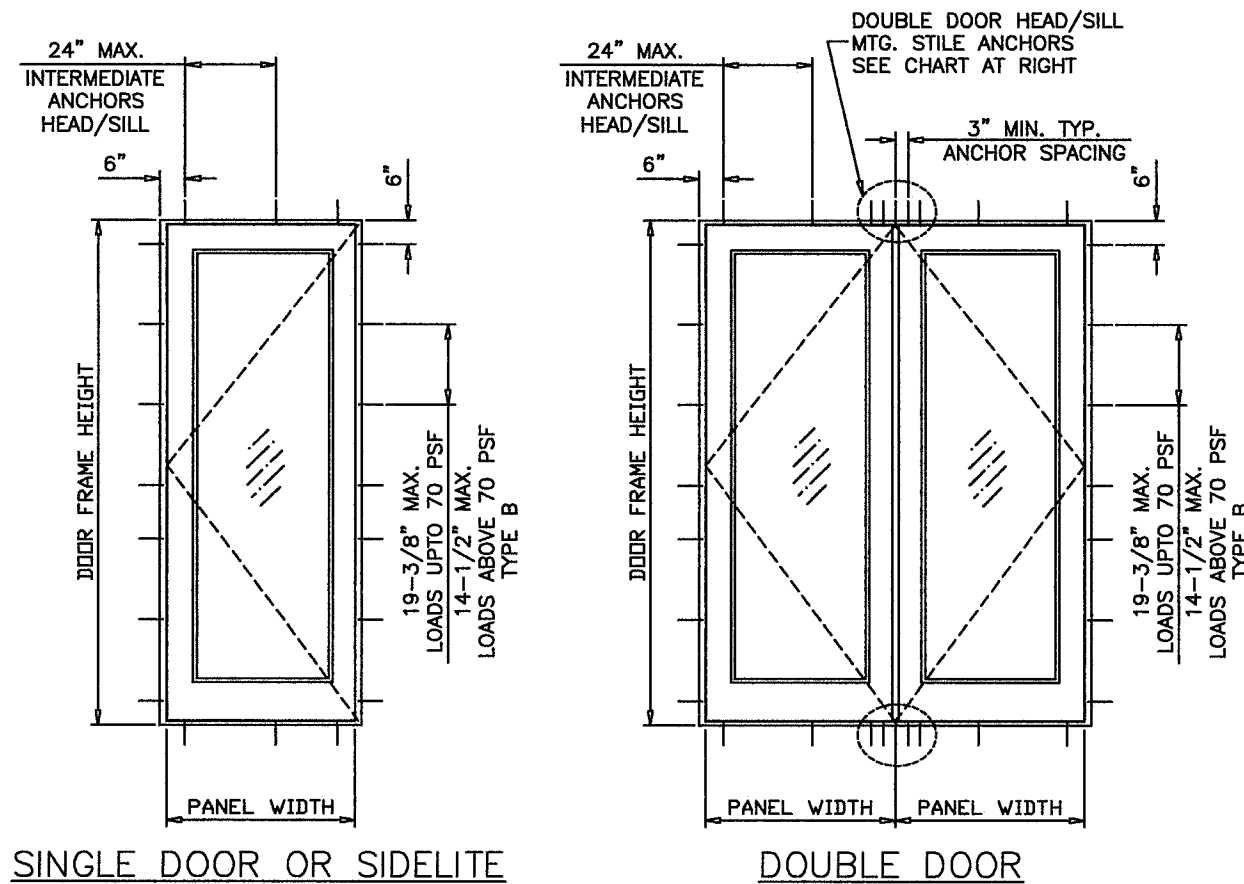
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0619.08  
Expiration Date 11/09/2021  
By Ishag I. Chank  
Miami-Dade Product Control

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

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	06/12/2020	J ROSOWSKI	A
		By	J ROSOWSKI		
		Drawn	J ROSOWSKI		
		Check	J ROSOWSKI		
WINDOOR® INCORPORATED 104 TRIPLE DIAMOND BLVD. N. VENICE, FL 34275 (407) 481-8400	450 ALUM. FRENCH DOOR - GLAZED & OS (LM)	ANCHOR DP	FD450 OUTSWING	NTS	15 OF 17

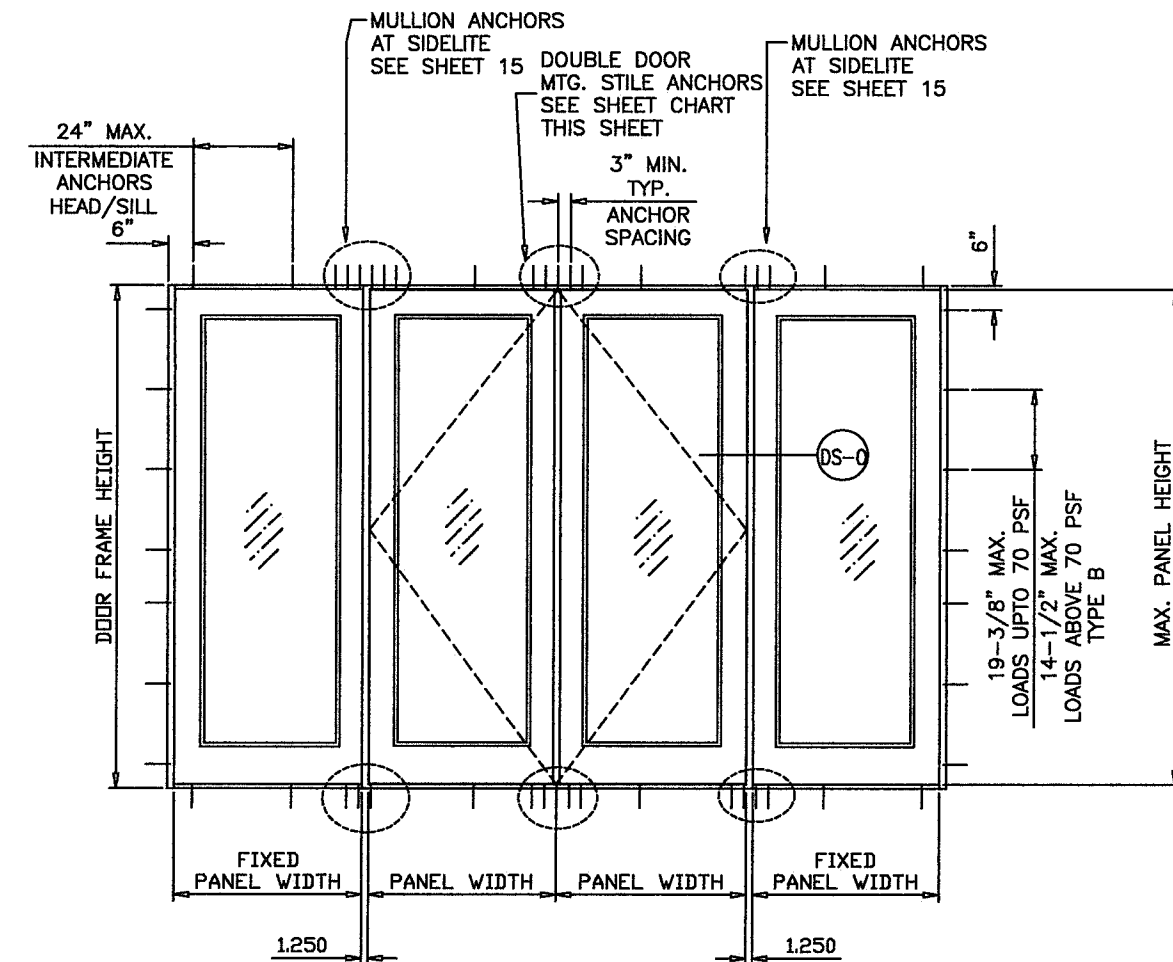


A. LYNN MILLER, P.E.  
P.E.# 58705



SINGLE DOOR OR SIDELITE

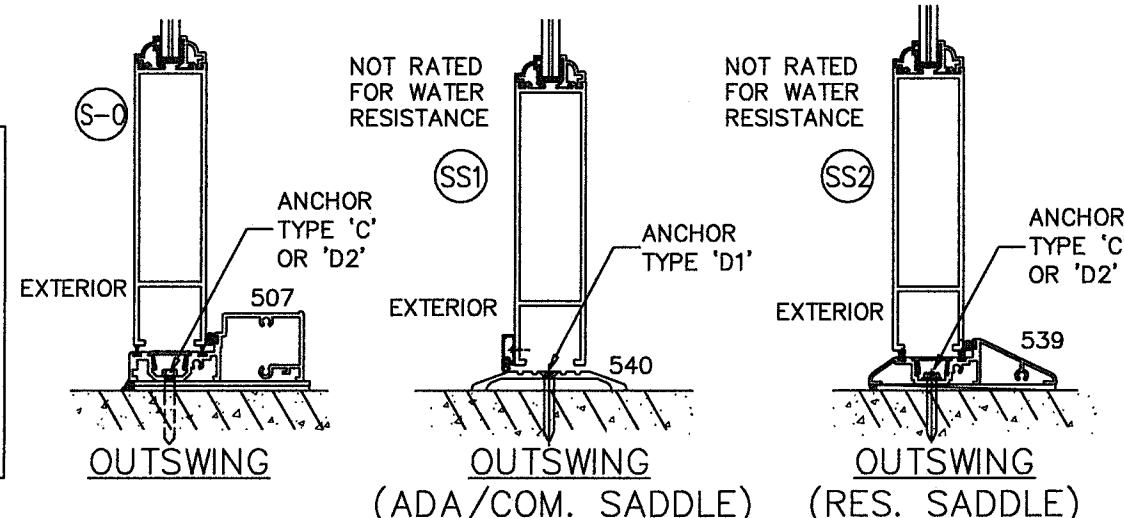
DOUBLE DOOR



MTG. STILE ANCHORS AT DOUBLE DOORS								
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 5 ANCHORS	CLUSTER OF 3 ANCHORS	CLUSTER OF 4 ANCHORS	CLUSTER OF 3 ANCHORS	CLUSTER OF 4 ANCHORS
FRAME WIDTH (XX)	FRAME HEIGHT							
50-1/2"	82-3/4"	106.7	110.0	110.0	110.0	110.0	110.0	110.0
62-1/2"		86.2	110.0	110.0	110.0	110.0	100.7	110.0
74-1/2"		72.3	96.4	110.0	109.3	110.0	84.5	110.0
86-1/2"		62.3	83.0	103.8	94.2	110.0	72.8	97.0
50-1/2"	84-3/4"	104.2	110.0	110.0	110.0	110.0	110.0	110.0
62-1/2"		84.2	110.0	110.0	110.0	110.0	98.4	110.0
74-1/2"		70.6	94.1	110.0	106.7	110.0	82.5	110.0
86-1/2"		60.8	81.1	101.4	91.9	110.0	71.1	94.8
50-1/2"	90-3/4"	97.3	110.0	110.0	110.0	110.0	110.0	110.0
62-1/2"		78.6	104.8	110.0	110.0	110.0	91.9	110.0
74-1/2"		65.9	87.9	109.9	99.7	110.0	77.1	102.7
86-1/2"		56.8	75.7	94.7	85.9	110.0	66.4	88.5
50-1/2"	96-3/4"	91.2	110.0	110.0	110.0	110.0	106.6	110.0
62-1/2"		73.7	98.3	110.0	110.0	110.0	86.2	110.0
74-1/2"		61.9	82.5	103.1	93.5	110.0	72.3	96.4
86-1/2"		53.3	71.0	88.8	80.5	107.4	62.3	83.0
50-1/2"	102-3/4"	85.9	110.0	110.0	110.0	110.0	100.4	110.0
62-1/2"		69.4	92.6	110.0	104.9	110.0	81.1	108.2
74-1/2"		58.2	77.7	97.1	88.0	110.0	68.1	90.7
86-1/2"		50.2	66.9	83.6	75.8	101.1	58.6	78.2
50-1/2"	108-3/4"	81.2	108.2	110.0	110.0	110.0	94.9	110.0
62-1/2"		65.6	87.5	109.3	99.2	110.0	76.7	102.2
74-1/2"		55.0	73.4	91.7	83.2	110.0	64.3	85.7
50-1/2"	114-3/4"	76.9	102.6	110.0	110.0	110.0	89.9	110.0
62-1/2"		62.2	82.9	103.6	94.0	110.0	72.6	96.9
74-1/2"		52.2	69.5	86.9	78.8	105.1	60.9	81.3
50-1/2"	120-3/4"	73.1	97.5	110.0	110.0	110.0	85.4	110.0
62-1/2"		59.1	78.8	98.5	89.3	110.0	69.0	92.0
74-1/2"		49.6	66.1	82.6	74.9	99.9	57.9	77.2

- 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.

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



**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 20-0619.08  
Expiration Date 11/09/2021  
By *Isaac L. Chank*  
Miami-Dade Product Control

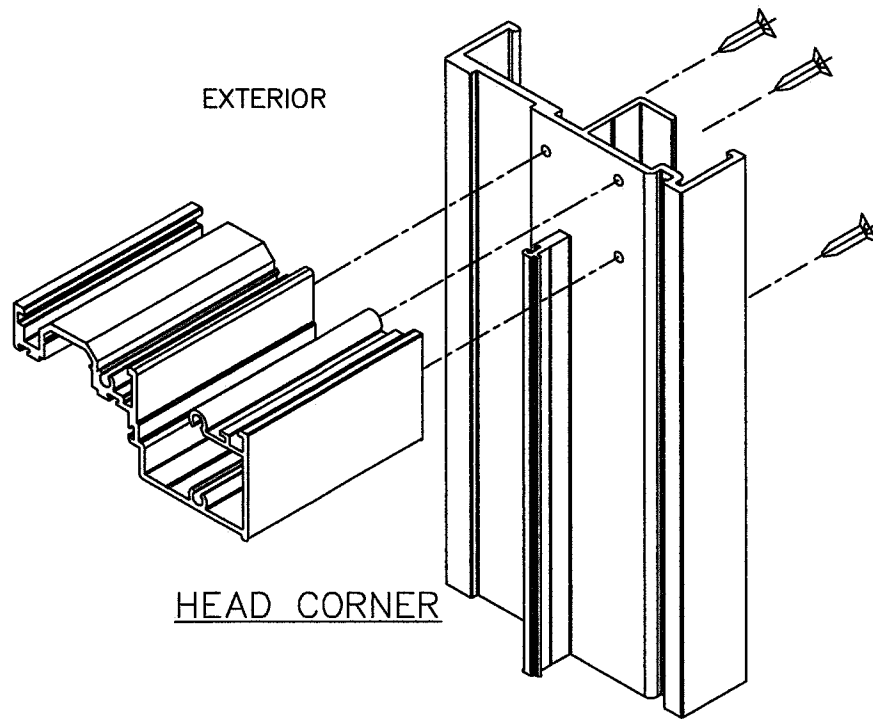
ADDED ANCHOR TYPE, & REFORMATTED - JR - 6/11/20

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	06/12/2020	J ROSOWSKI	Rev.	A
		By			No.	450FD1-NOA
		DWG	16 OF 17			
		Sheet	NTS			
WINDOOR® INCORPORATED 104 TRIPLE DIAMOND BLVD. N. VENICE, FL 34275 (407) 481-8400		450 ALUM. FRENCH DOOR - GLAZED & OS (LM)		ANCHOR DP		FD450 OUTSWING

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

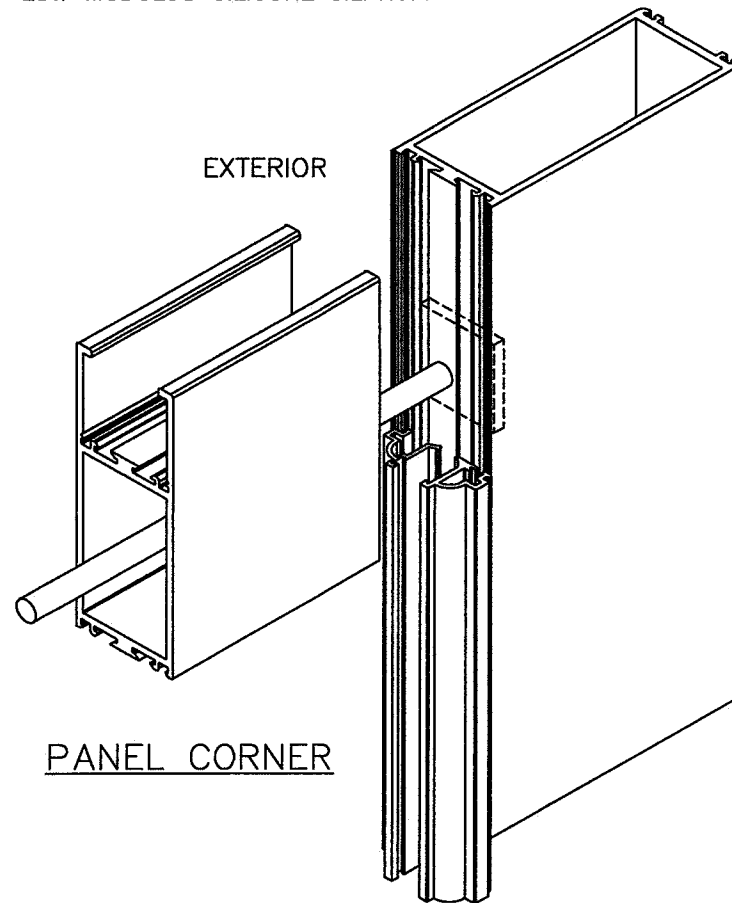


# CORNER DETAILS

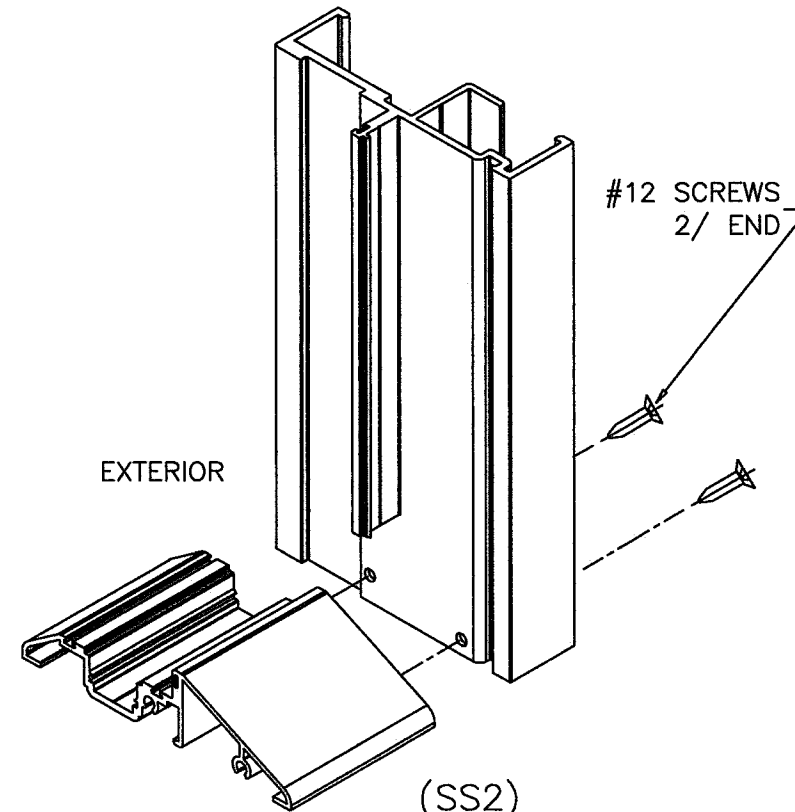


HEAD CORNER

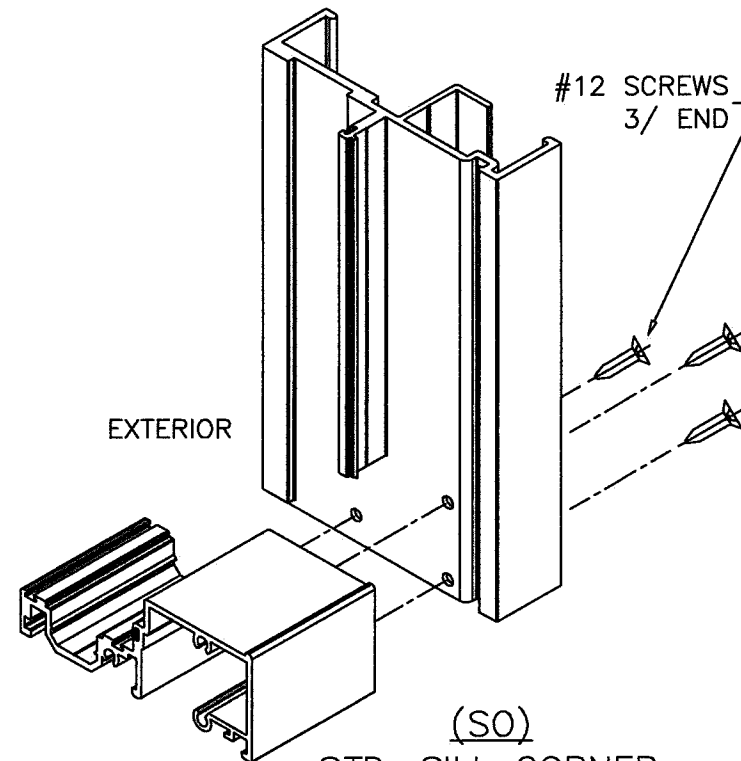
CORNERS TO BE SEALED WITH LOW MODULUS SILICONE SILPRUF.



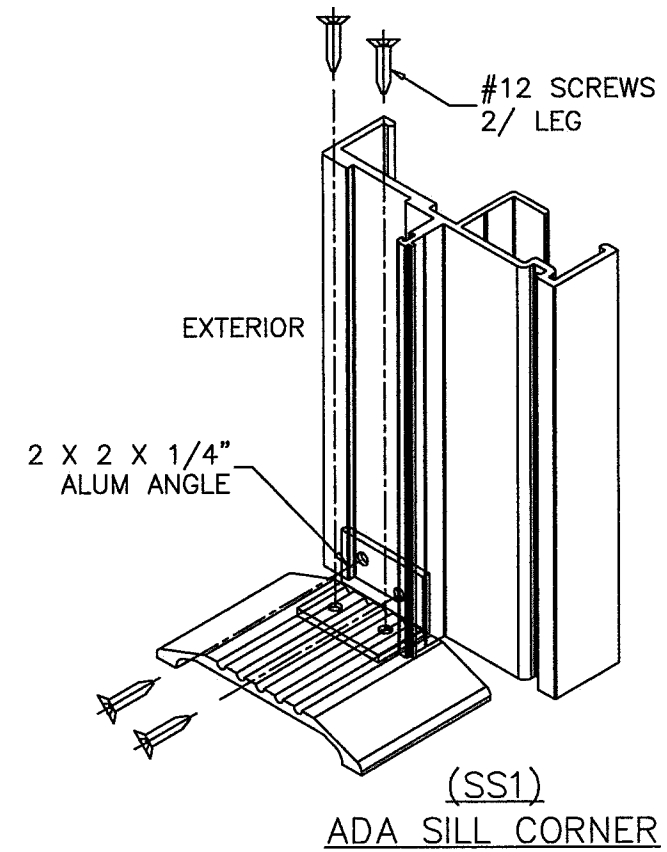
PANEL CORNER



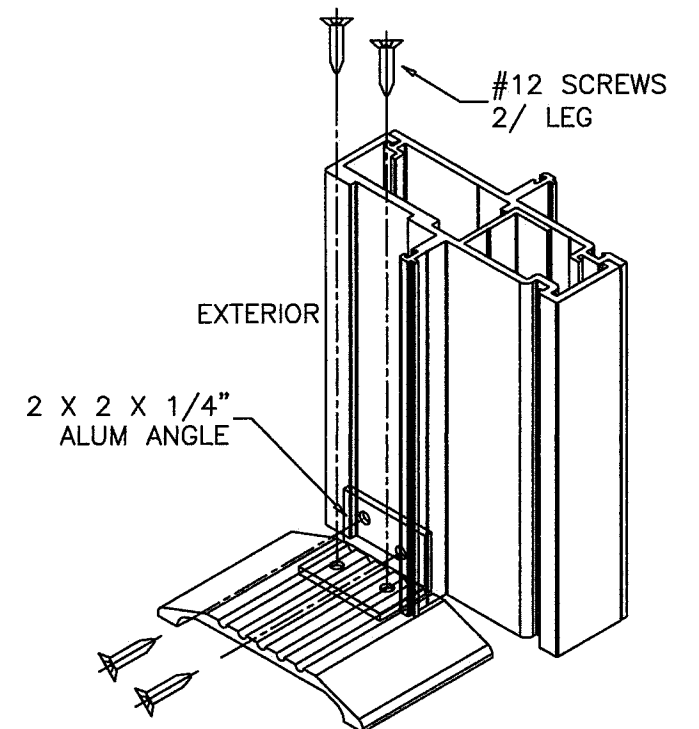
(SS2)  
RESIDENTIAL SADDLE SILL



(SO)  
STD. SILL CORNER



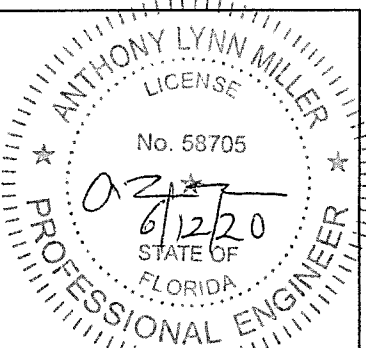
(SS1)  
ADA SILL CORNER



ADA SILL @ MULLION

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0619.08  
Expiration Date 11/09/2021  
By Ishag I. Chank  
Miami-Dade Product Control

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	06/12/2020	J ROSOWSKI	A
<b>WINDOOR®</b> INCORPORATED 104 TRIPLE DIAMOND BLVD. N. VENICE, FL 34275 (407) 481-8400	450 ALUM. FRENCH DOOR - GLAZED & OS (LM)	CORNER DETAILS	FD450 OUTSWING	17 OF 17
A. LYNN MILLER, P.E. P.E.# 58705	CORNER DETAILS	FD450 OUTSWING	17 OF 17	A



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