



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

Windoor Inc.,
104 Triple Diamond Blvd.
Orlando, 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 Opaque Doors w/wo Sidelites - Impact

APPROVAL DOCUMENT: Drawing No. 450FD2-NOA Rev A (former 18-109D), titled "Series 450 Outswing Doors & Sidelites", sheets 1 through 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.

MISSILE IMPACT RATING: Large and Small Missile Impact

Limitations:

1. Lock **10D** or **10E** is limited to max 38-9/16 W x 94-7/8 H door.
2. For mulled units lower Design pressure of doors or mullion shall control for entire assembly.
3. Sills (threshold) types SS-1 & SS-2 are not rated for water infiltration. See thresholds (sills).
4. 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 **revises # 18-0926.08 (PLA)** consists of this page 1 and evidence pages E-1, E-2, E-3 & E-4, as well as approval document mentioned above.

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



Ishaq I. Chanda

NOA No. 20-0619.10
Expiration Date: October 25, 2022
Approval Date: November 19, 2020
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted in previous NOA
 - A. **DRAWINGS**
 1. Drawing No. **W12-22 Rev C**, titled "Series 450 Outswing Doors & Sidelites", sheets 1, 1.1, 1.2, 1.3, 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 05-22-12 and last revised on 09/21/17, 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. None
 - 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 & renews # 14-1103.07**, expiring on 10/25/17
 2. Evidence submitted in previous NOA
 - A.
 1. Manufacturer's die drawings and sections (Submitted under files below).
 2. Drawing No. **W12-22 Rev B**, titled "Series 450 Outswing Doors & Sidelites", sheets 1, 1.1, 1.2, 1.3, 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 05-22-12 and last revised on SEP 02, 2015, signed and sealed by Javad Ahmad, P.E.
 - B. **TESTS (Submitted under files #12-0706.2)**
 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 Outswing / Inswing 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 & 04/03/12, both signed & 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.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 20-0619.10
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B. TESTS (continue)

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

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 # **11-1025.02**)

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 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.

G. OTHER

1. This NOA **revises # 12-0706.01**, expiring on 10/25/17.
2. Hardware cut sheets verified and marked-up by the Architectural Testing (former Hurricane Testing lab).
3. Test proposals dated 12/16/14 approved by RER & Test proposal # **10-0940**, dated 11/17/10 approved by BNC.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 20-0619.10
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3. Evidence submitted under previous approval.
- A. DRAWINGS**
1. Drawing No. **18-109D**, titled “Series 450 Outswing Doors & Sidelites”, sheets 1, 1.1, 1.2, 1.3, 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. None.
- F. STATEMENTS**
1. Statement letter of conformance to FBC 2017 (**6th 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 # **17-1011.14 (PLA)**, expiring on October 25, 2022.
 2. Private Label Agreement (PLA) dated 09/05/18 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 # 17-1011.14 (#14-1103.07), expiring 10/25/22.
4. **New Evidence submitted**
- A. DRAWINGS**
1. Drawing No. **450FD2-NOA Rev A (former 18-109D)**, titled “Series 450 Outswing Doors & Sidelites”, sheets 1 through 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)

Ishaq I. Chanda

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B. TESTS (continue)

WinDoor, Inc. test specimens (conti:)

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. 1. Anchor verification calculations and structural analysis, complying with **FBC 7th Edition (2020)**, dated 03/26/20 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. None.

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 06/03/20, 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 # 18-0926.08 (PLA)**, updates to FBC 2020, expiring 10/25/22.
2. Additional associated reference file **#20-0610.09 (LMI)**.
3. 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 Examiner

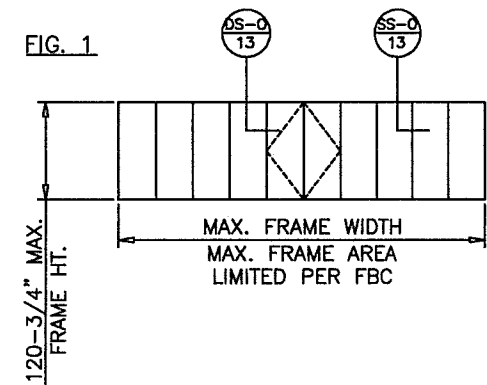
NOA No 20-0619.10

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

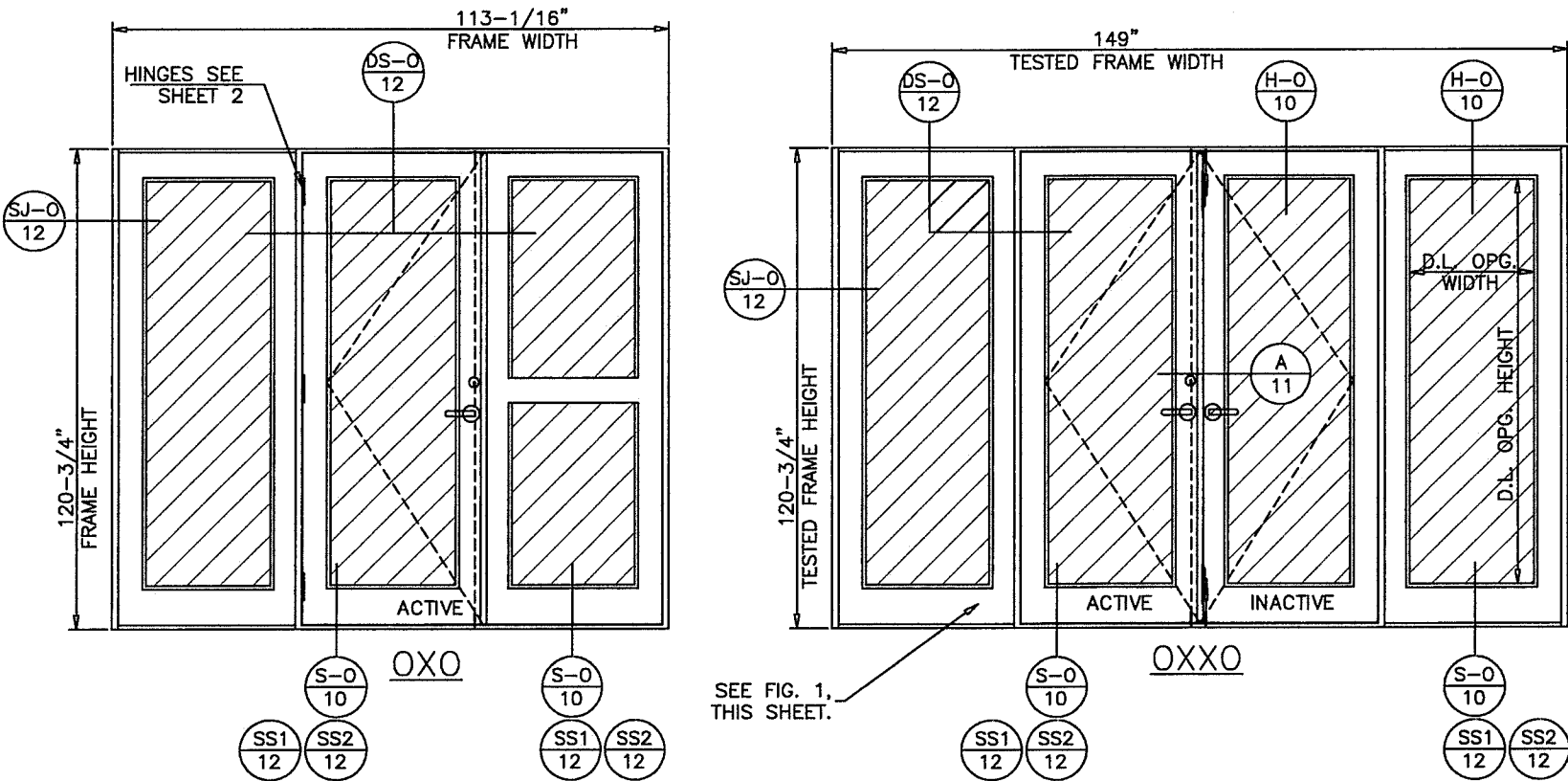
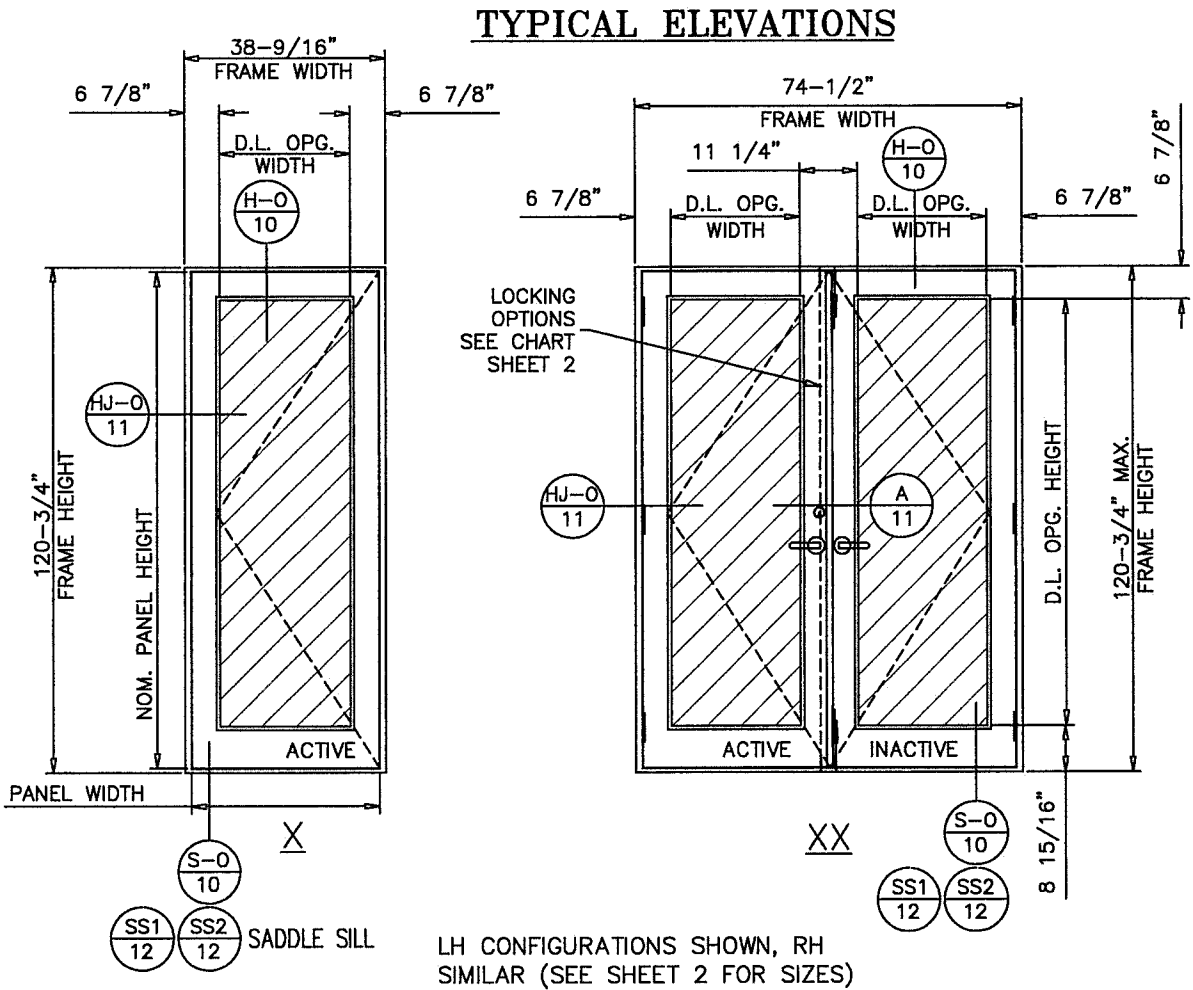
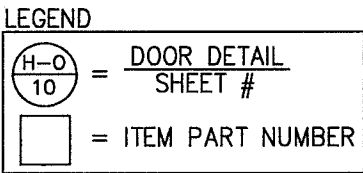
- 1) THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION)/2020 (7TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2) 1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER 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.



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0619.10
Expiration Date 10/25/2022
By Ishag I. Chande
Miami-Dade Product Control

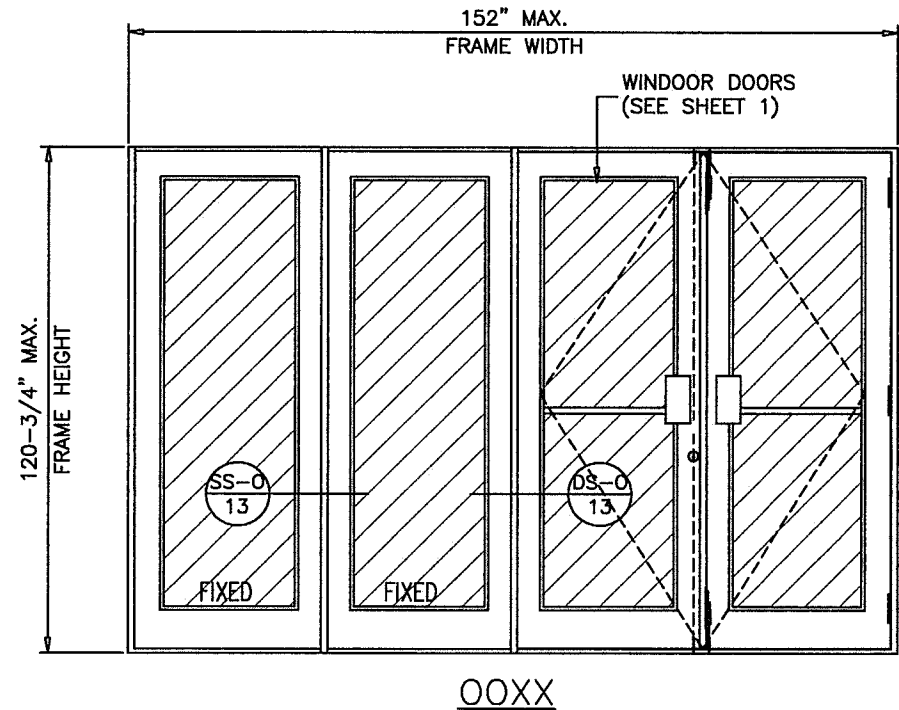
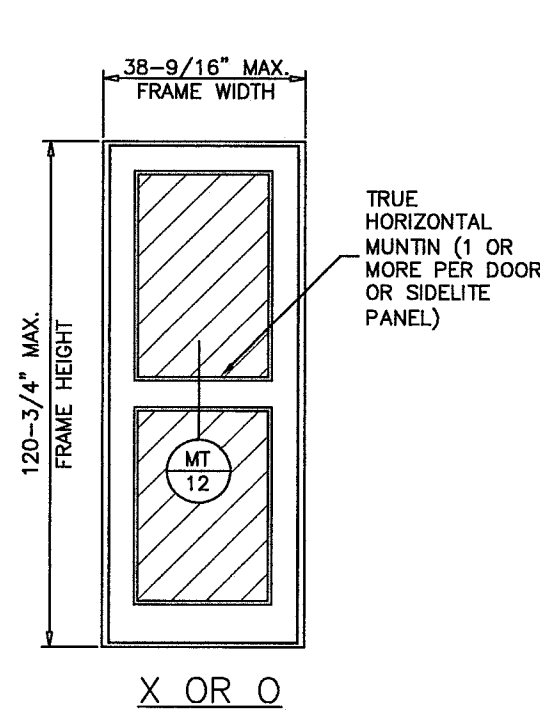
REVISION:
REVISED FOR 2020 FBC,
ADDED GEN. NOTES,
ANCHOR TYPE,
BACKBEDDING TYPES &
REFORMATTED - JR - 6/11/20

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600			REGISTRATION #29296		
450 ALUM. FRENCH DOOR - OPAQUE & OS (LM)			Date		06/12/2020
GEN. NOTES AND ELEVATIONS			By		J ROSOWSKI
FD450 OUTSWING			Drawn		
Scale		NTS	Sheet		1 OF 17
Series Desc.		Title		Rev.	
				A	
				450FD2-NOA	
				DWG No.	
				1 OF 17	
				Sheet	
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				Scale	
				1 OF 17	

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

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

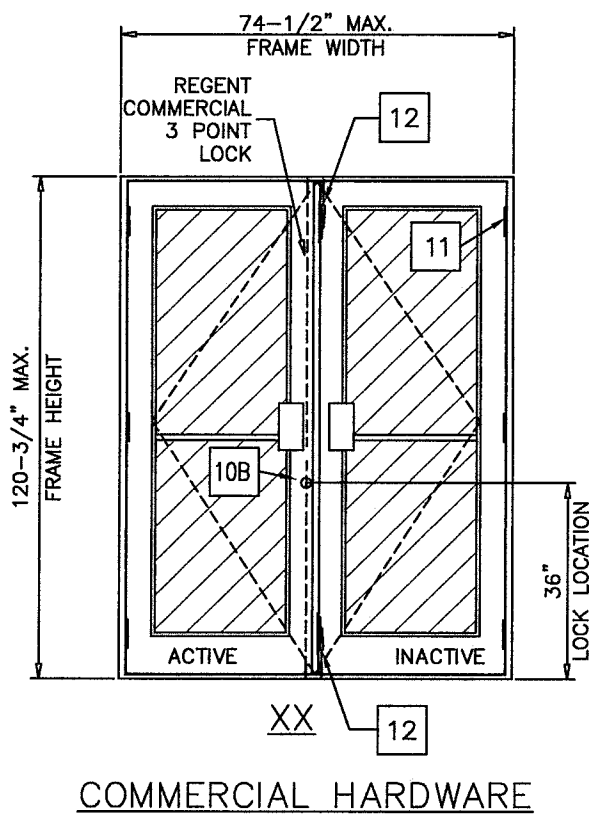
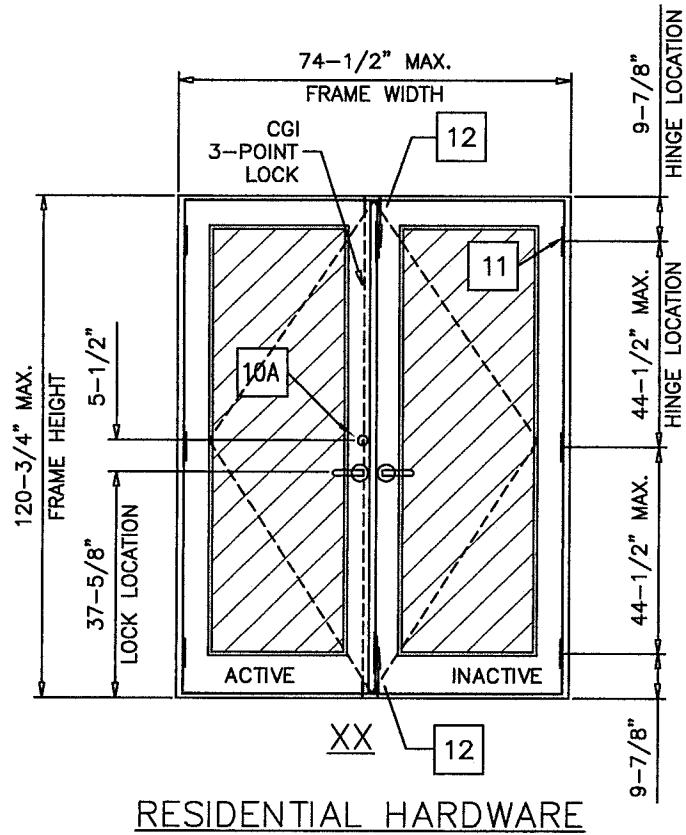
HARDWARE DESCRIPTION, TYPICAL ELEVATIONS



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0619.10
Expiration Date 10/25/2022
By Ishag I. Chandra
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		LOCK OPTIONS AND CAPACITY											
		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
(H-O 10) = 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"

Revision:

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

REGISTRATION #29296

450 ALUM. FRENCH DOOR - OPAQUE & OS (LM)

DESIGN PRESSURES AND ELEVATIONS

FD450 OUTSWING

6/12/2020

J ROSOWSKI

450FD2-NOA A

2 OF 17

NTS

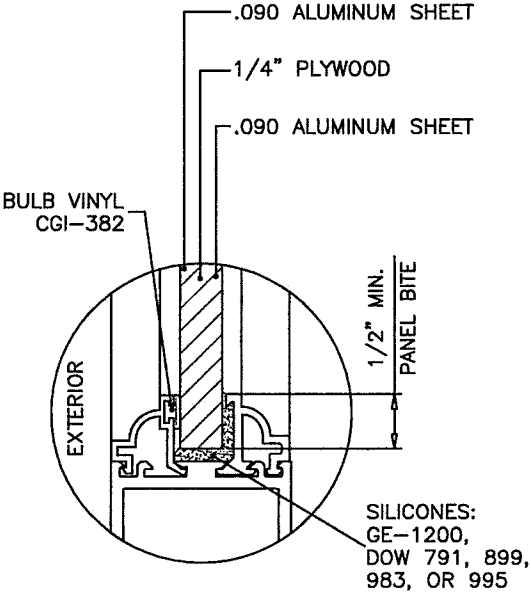
Scale

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

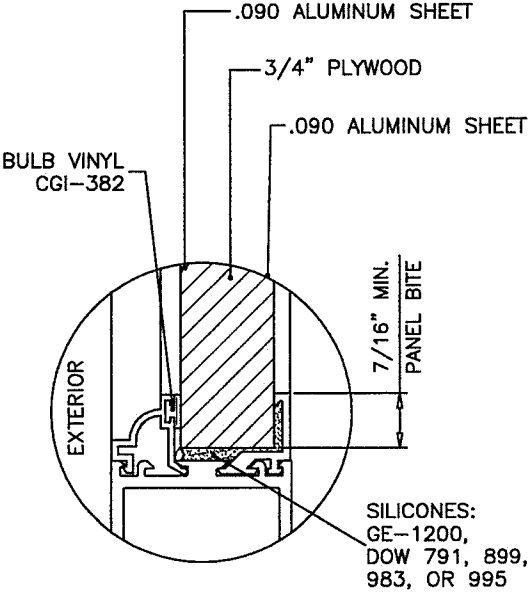
ANTHONY LYNN MILLER
LICENSE
No. 58705
6/12/20
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

GLAZING OPTIONS



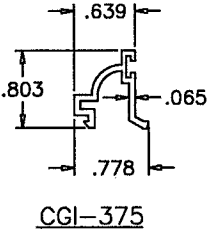
7/16" OVERALL
COMPOSITE PANEL



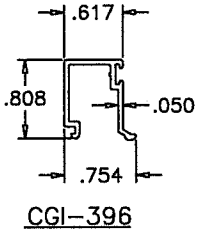
1" OVERALL
COMPOSITE PANEL

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0619.10
Expiration Date 10/25/2022
By Ishag I. Chank
Miami-Dade Product Control

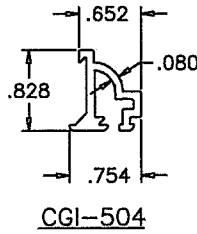
GLAZING STOP
OPTIONS



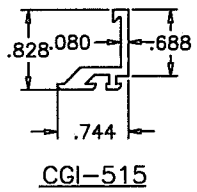
CGI-375



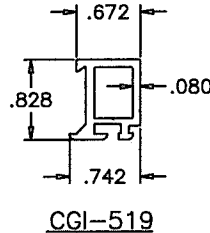
CGI-396



CGI-504



CGI-515



CGI-519

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

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

W [®] IN [®] DOOR [®]		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296		06/12/2020	
INCORPORATED		104 TRIPLE DIAMOND BLVD. N. VENICE, FL 34275 (407) 481-8400				Date	
450 ALUM. FRENCH DOOR - OPAQUE & OS (LM)				By		J ROSOWSKI	
GLAZING DETAILS				Drawn		Rev.	
FD450 OUTSWING		NTS		3 OF 17		450FD2-NOA	
Scale		Sheet		DWG		A	
Series		Desc.		Title			

WINDOOR[®]

INCORPORATED

104 TRIPLE DIAMOND BLVD.
N. VENICE, FL 34275
(407) 481-8400

450 ALUM. FRENCH DOOR - OPAQUE & OS (LM)

GLAZING DETAILS

FD450 OUTSWING

ANTHONY LYNN MILLER

LICENSE

No. 58705

6/12/20

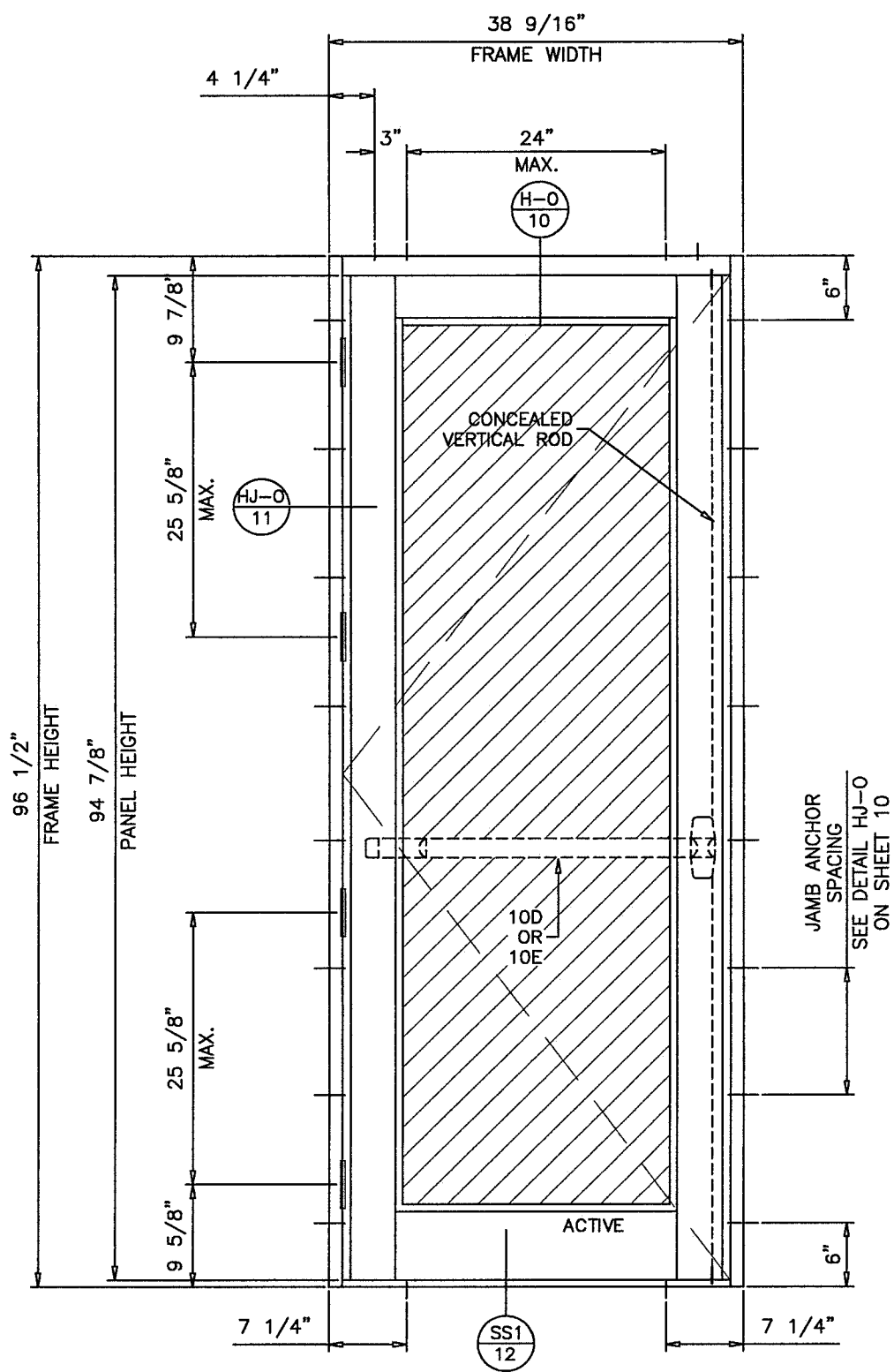
STATE OF FLORIDA

PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.

P.E.# 58705

CVR PANIC HARDWARE



PRODUCT REVISED
as complying with the Florida
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NOA-No. 20-0619.10
Expiration Date 10/25/2022
By Ismael L. Chanda
Miami-Dade Product Control

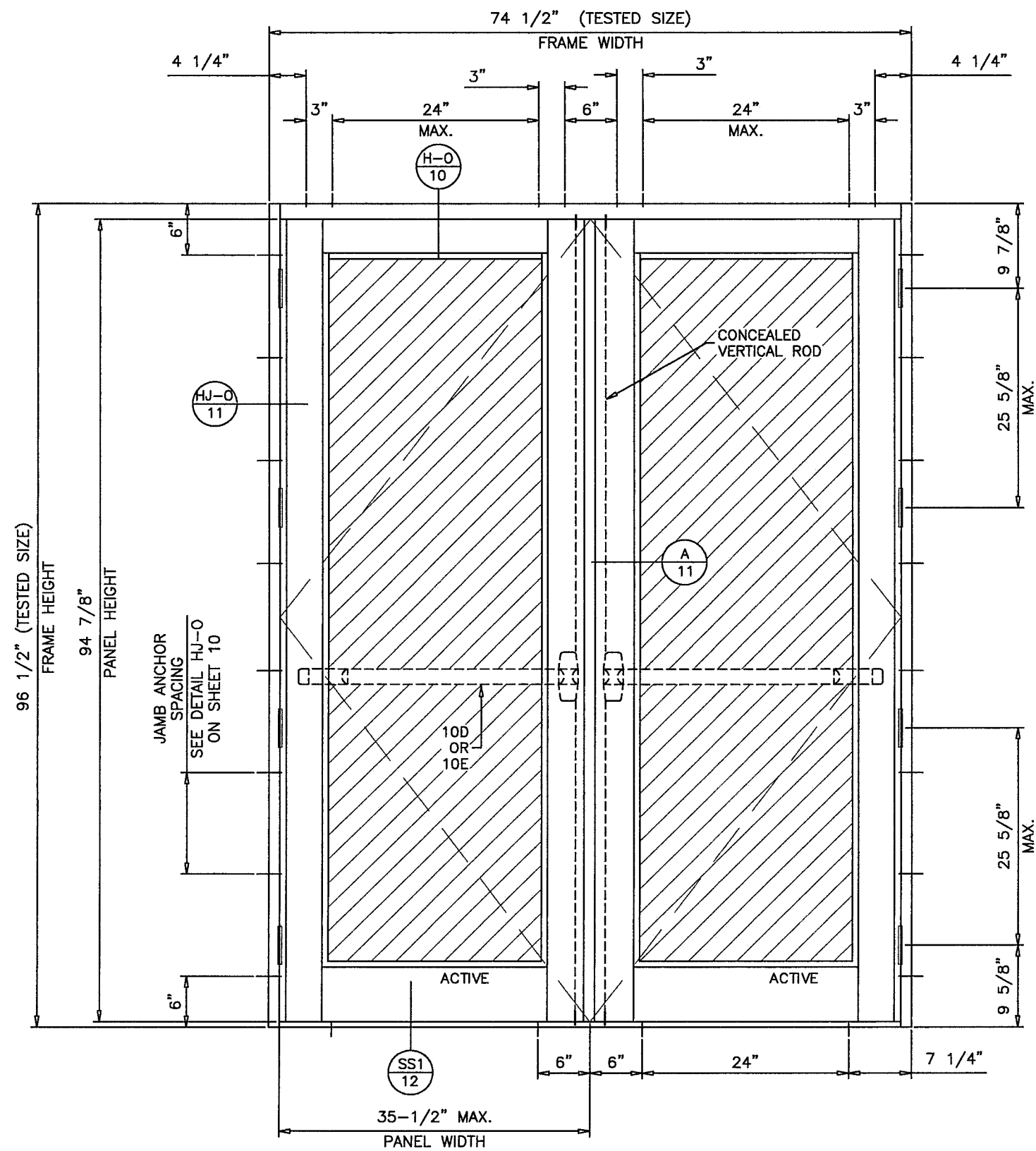
APPROVED PANIC HARDWARE FOR DOORS
DOR-O-MATIC SERIES 1690 TOUCHBAR EXIT DEVICE
JACKSON SERIES 2085/2086 CONCEALED VERTICAL
ROD EXIT DEVICE

Revision: SEPERATED X AND XX
ELEVATIONS, ADDED NEW
PAGE - 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 - OPAQUE & OS (LM)				Date					
STD. HARDWARE ANCHOR LAYOUT				By		J ROSOWSKI			
FD450 OUTSWING				Scale		NTS		Sheet	
Series Desc.		Title		DWG		No.		Rev.	
				4 OF 17		450FD2-NOA		A	

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

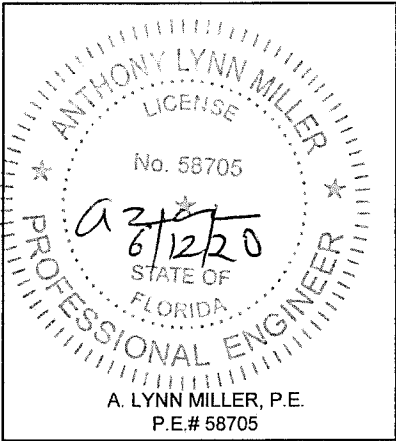


PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0619.10
Expiration Date 10/25/2022
By Ishag I. Chandra
Miami-Dade Product Control

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

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.
LOCK OPTIONS 10D AND 10E



<div>W[®]_{IN}DOOR</div> <div>INCORPORATED</div> <div>104 TRIPLE DIAMOND BLVD. N. VENICE, FL 34275 (407) 481-8400</div>			<div>PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600</div>		
			REGISTRATION #29296		
450 ALUM. FRENCH DOOR - OPAQUE & OS (LM)			Date	06/12/2020	
PANIC HARDWARE ANCHOR LAYOUT			By Drawn	J ROSOWSKI	
FD450 OUTSWING			Scale	NTS	Sheet
5 OF 17			DWG No.	450FD2-NOA	
Rev.			A		

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, KWKSET 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

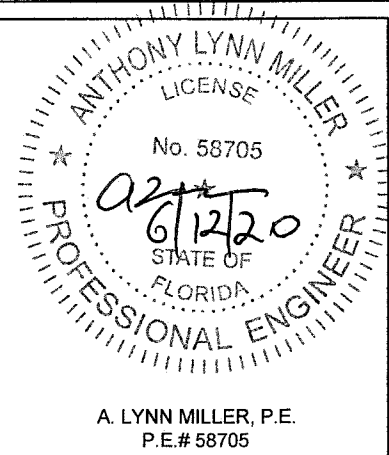
EXTRUSION LIST: 500A, 501, 502, 503, 504, 507, 509, 510, 514, 515, 519, 539, & 540 ALL EXTRUSIONS ARE 6063-T6.
375, 396, 505, 508, 511 EXTRUSIONS ARE 6063-T5.

PRODUCT REVISED
 as complying with the Florida
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 NOA-No. 20-0619.10
 Expiration Date 10/25/2022
 By Ishag I. Chande
 Miami-Dade Product Control

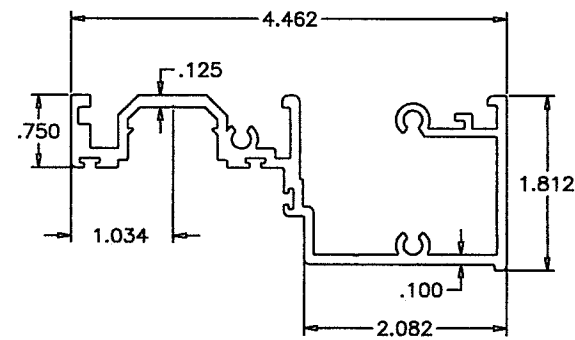
Material	Min. F _y	Min. F _u
#14 Steel Screw, Gr 5	81 ksi	105 ksi
1/4" Elco UltraCon	155 ksi	177 ksi
1/4" DeWalt UltraCon+	148 ksi	164 ksi
5/16" Elco UltraCon	155 ksi	177 ksi
5/16" DeWalt UltraCon+	155 ksi	177 ksi
6063-T5 Aluminum	16 ksi	22 ksi
A36 Steel	36 ksi	58 ksi
Gr. 33 Steel Stud	33 ksi	45 ksi

ADDED BACKBEDDING
 TYPES - JR - 6/11/20

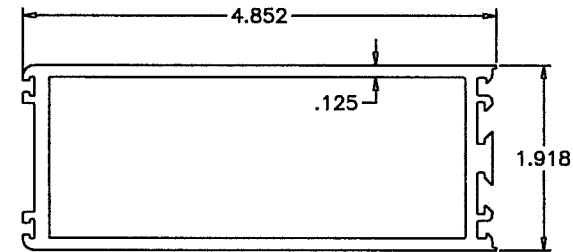
PREPARED BY A LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296 06/12/2020 Date By J ROSOWSKI Drawn 450FD2-NOA No. DWG 6 OF 17 Sheet NTS Scale FD450 OUTSWING Series Desc. Title	Rev.	A



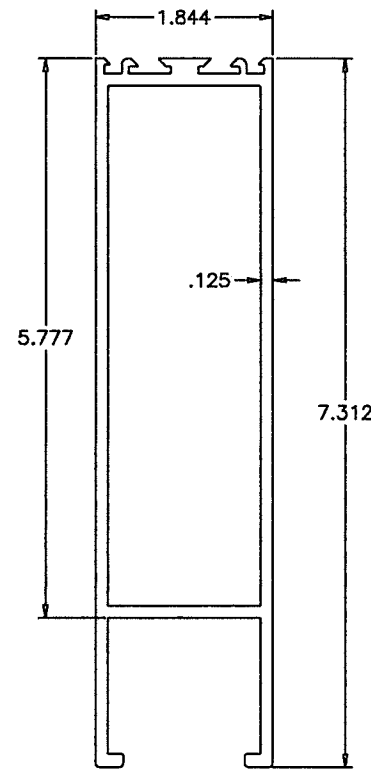
A LYNN MILLER, P.E.
 P.E.# 58705



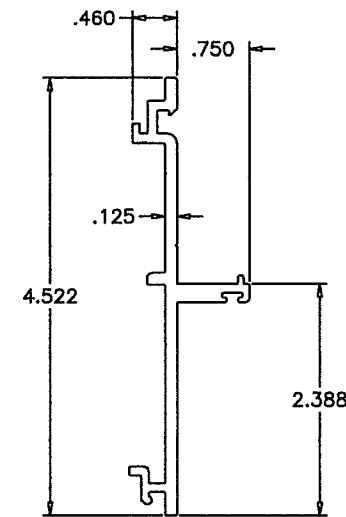
CGI-507
DOOR FRAME HEAD/SILL



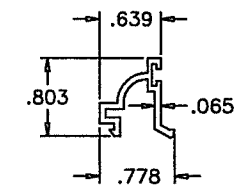
CGI-502
JAMB/LOCK/SIDELITE STILE



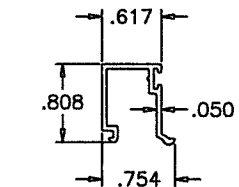
CGI-501
BOTTOM RAIL



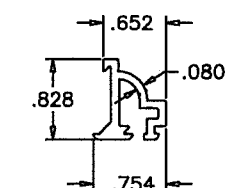
CGI-510
SIDELITE MULLION



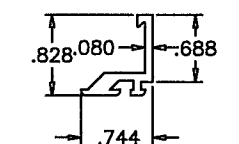
CGI-375



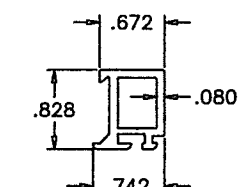
CGI-396



CGI-504

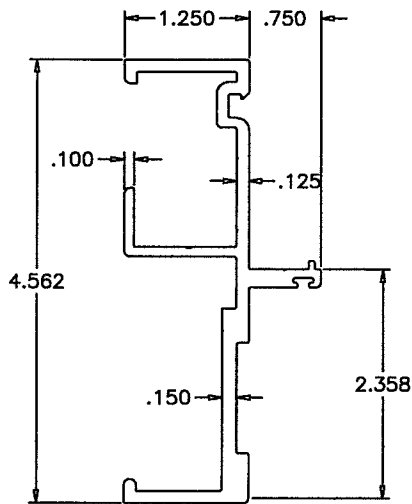


CGI-515

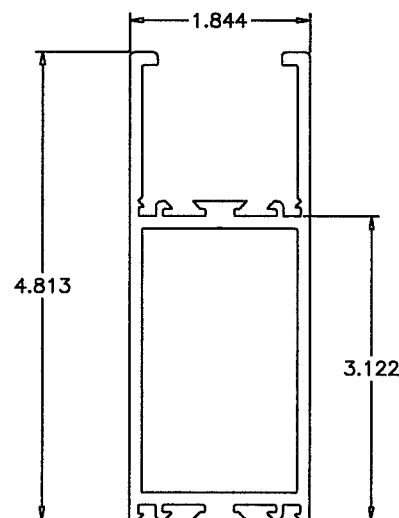


CGI-519

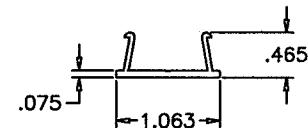
GLAZING STOP OPTIONS



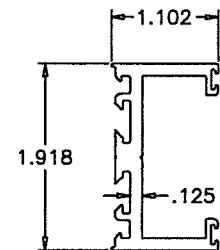
CGI-509
FRAME JAMB/MULLION



CGI-500A
TOP RAIL



CGI-508
FRAME COVER

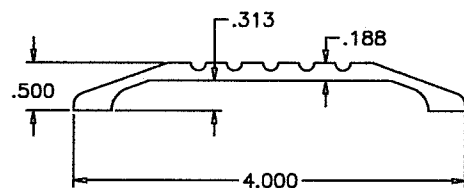


CGI-503
NARROW SIDELITE STILE

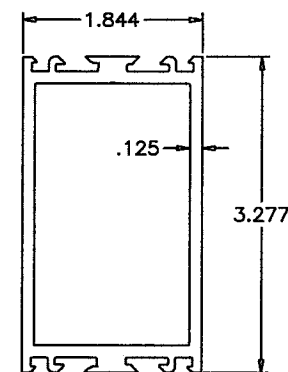
PRODUCT REVISED
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Expiration Date 10/25/2022

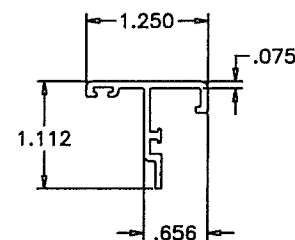
By Ishag I. Chande
Miami-Dade Product Control



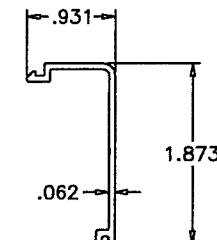
CGI-540
COM. SADDLE/ADA THRESHOLD



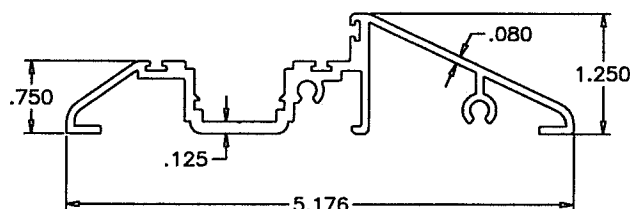
CGI-514
HORIZONTAL MUNTIN



CGI-505
ASTRAGAL



CGI-511
JAMB COVER



CGI-539
RES. SADDLE THRESHOLDS

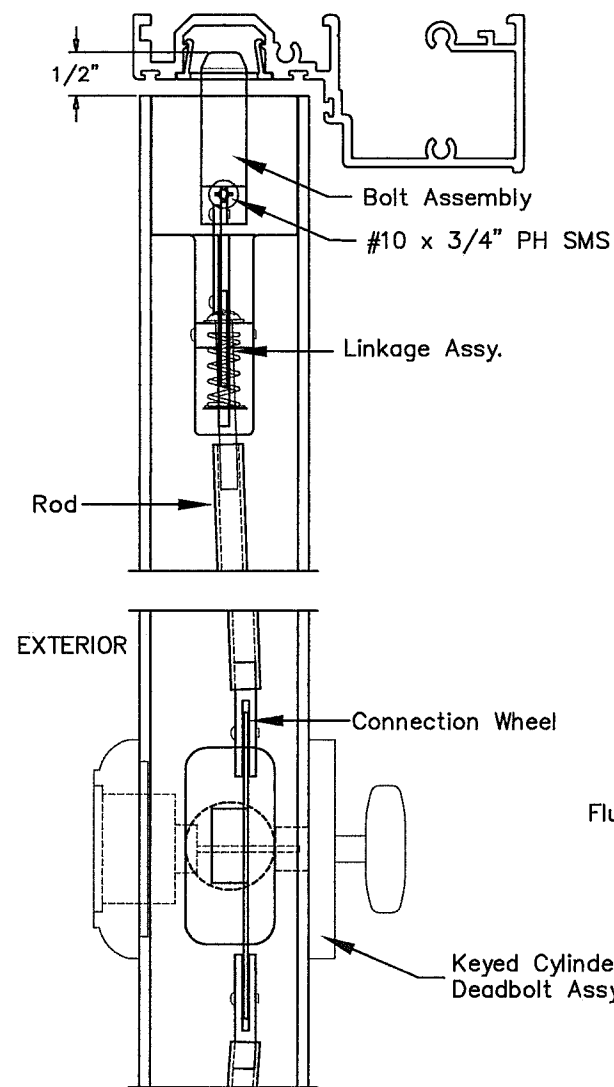
Revision:	
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Revision:	
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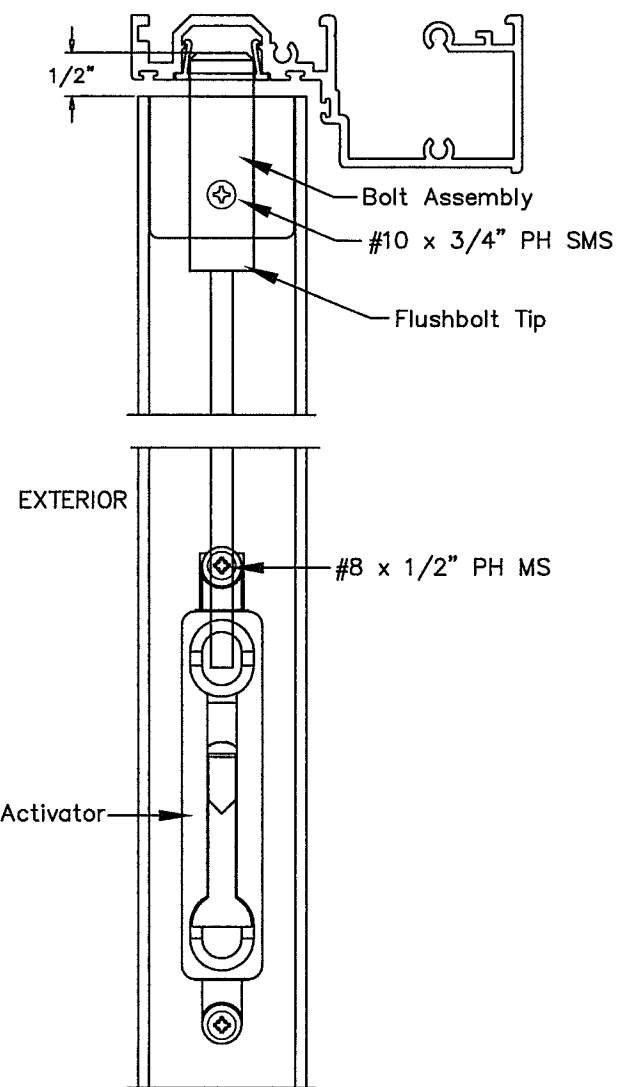
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	06/12/2020	By	J ROSOWSKI	No.	450FD2-NOA	Rev.	A
		450 ALUM. FRENCH DOOR - OPAQUE & OS (LM)		EXTRUSIONS		FD450 OUTSWING			
		7 OF 17		NTS		Sheet			
		7 OF 17		NTS		Sheet			

WINDOOR® INCORPORATED 104 TRIPLE DIAMOND BLVD. N. VENICE, FL 34275 (407) 481-8400	ANTHONY LYNN MILLER LICENSE No. 58705 6/12/20 STATE OF FLORIDA PROFESSIONAL ENGINEER
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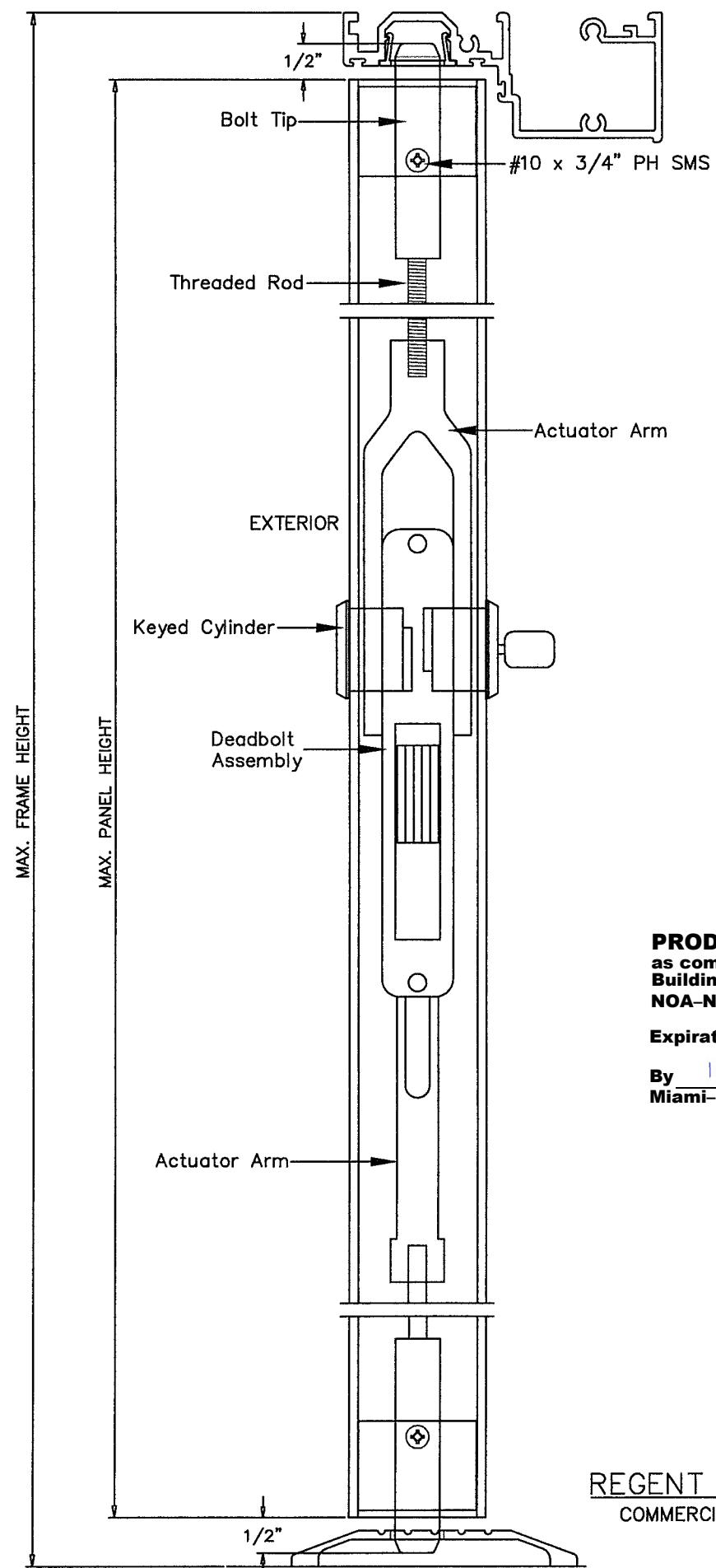
A. LYNN MILLER, P.E.
P.E.# 58705



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



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

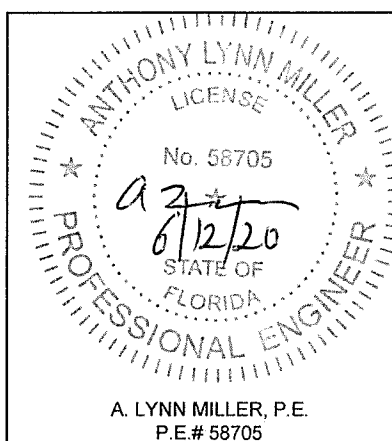


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Building Code
NOA-No. 20-0619.10
Expiration Date 10/25/2022
By Ishag I. Chanda
Miami-Dade Product Control

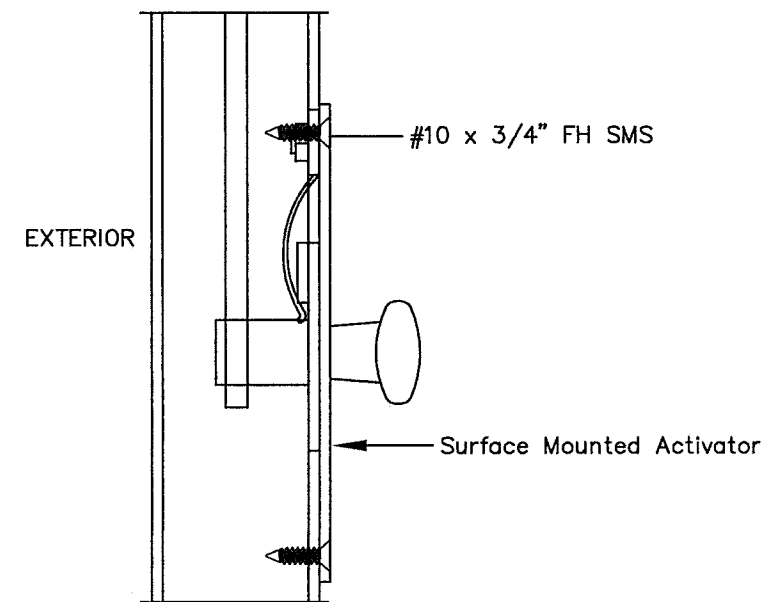
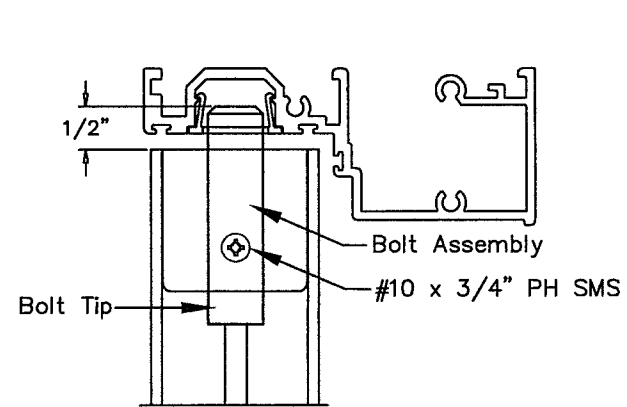
**REGENT 3 POINT
COMMERCIAL LOCK**

Revision:

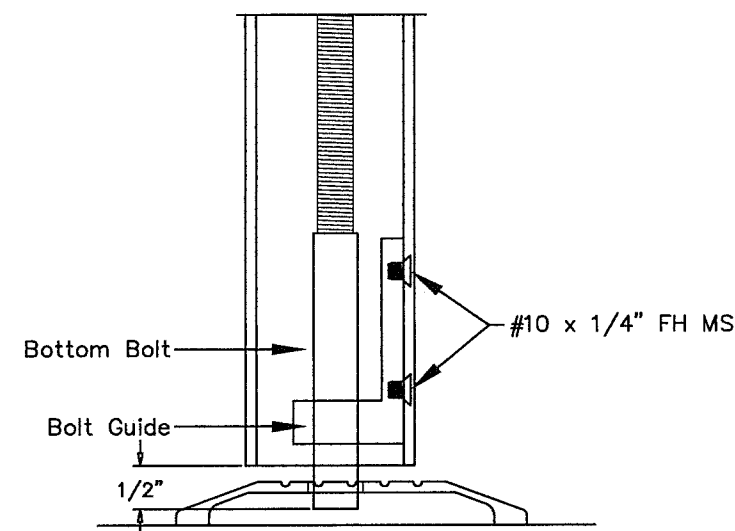
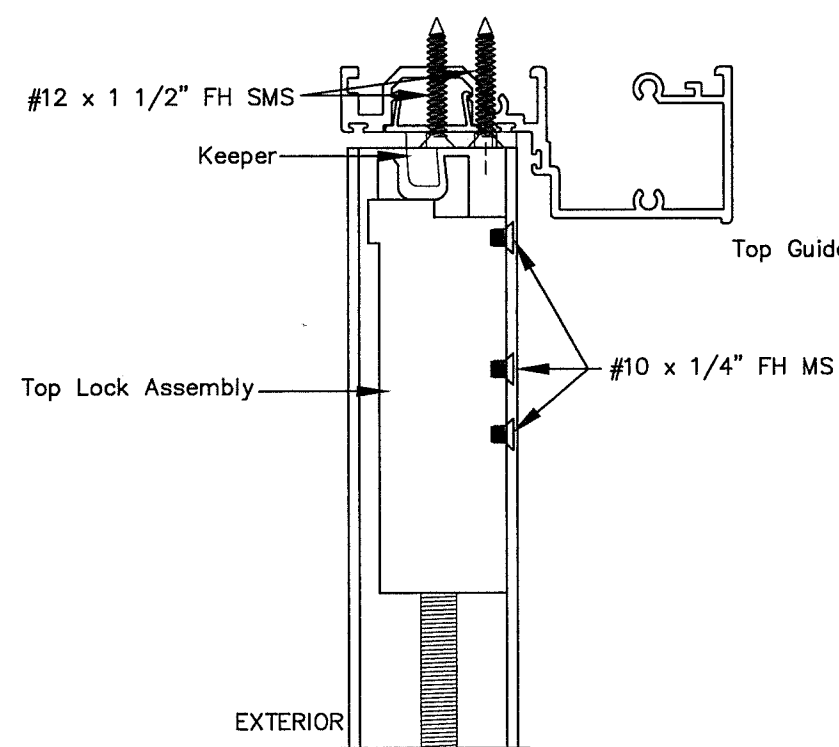
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296	
450 ALUM. FRENCH DOOR - OPAQUE & OS (LM)		Date	06/12/2020
HARDWARE DETAILS 1		By	J ROSOWSKI
FD450 OUTSWING	Scale	NTS	Sheet
8 OF 17		DWG No.	450FD2-NOA
Rev.		A	



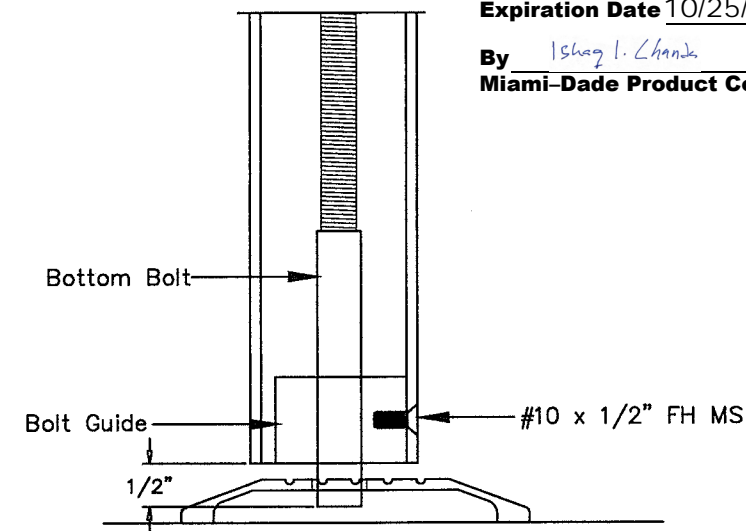
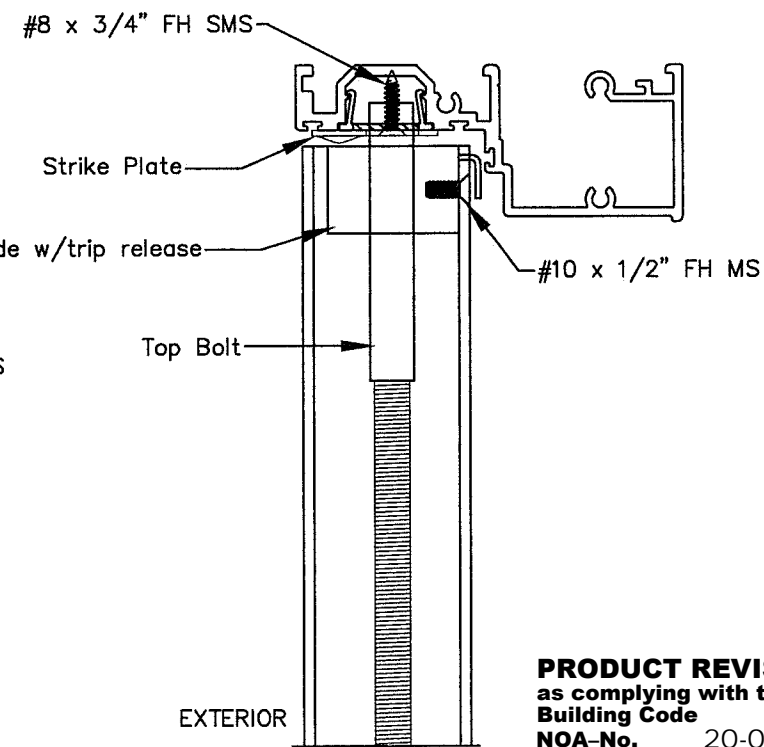
A. LYNN MILLER, P.E.
P.E.# 58705



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



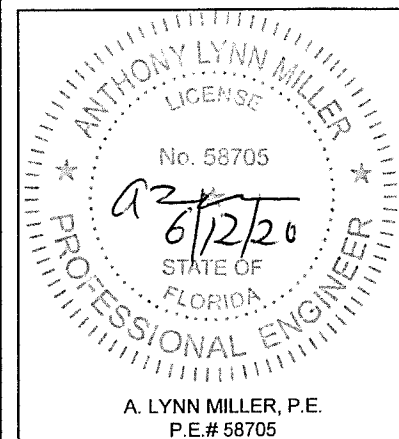
DOR-O-MATIC 1690



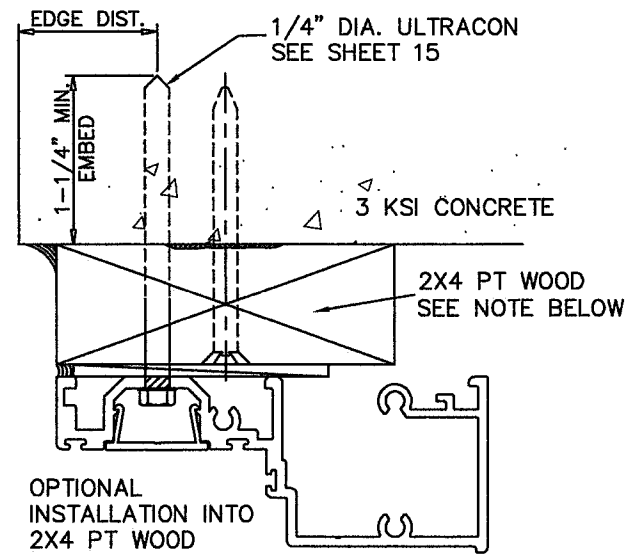
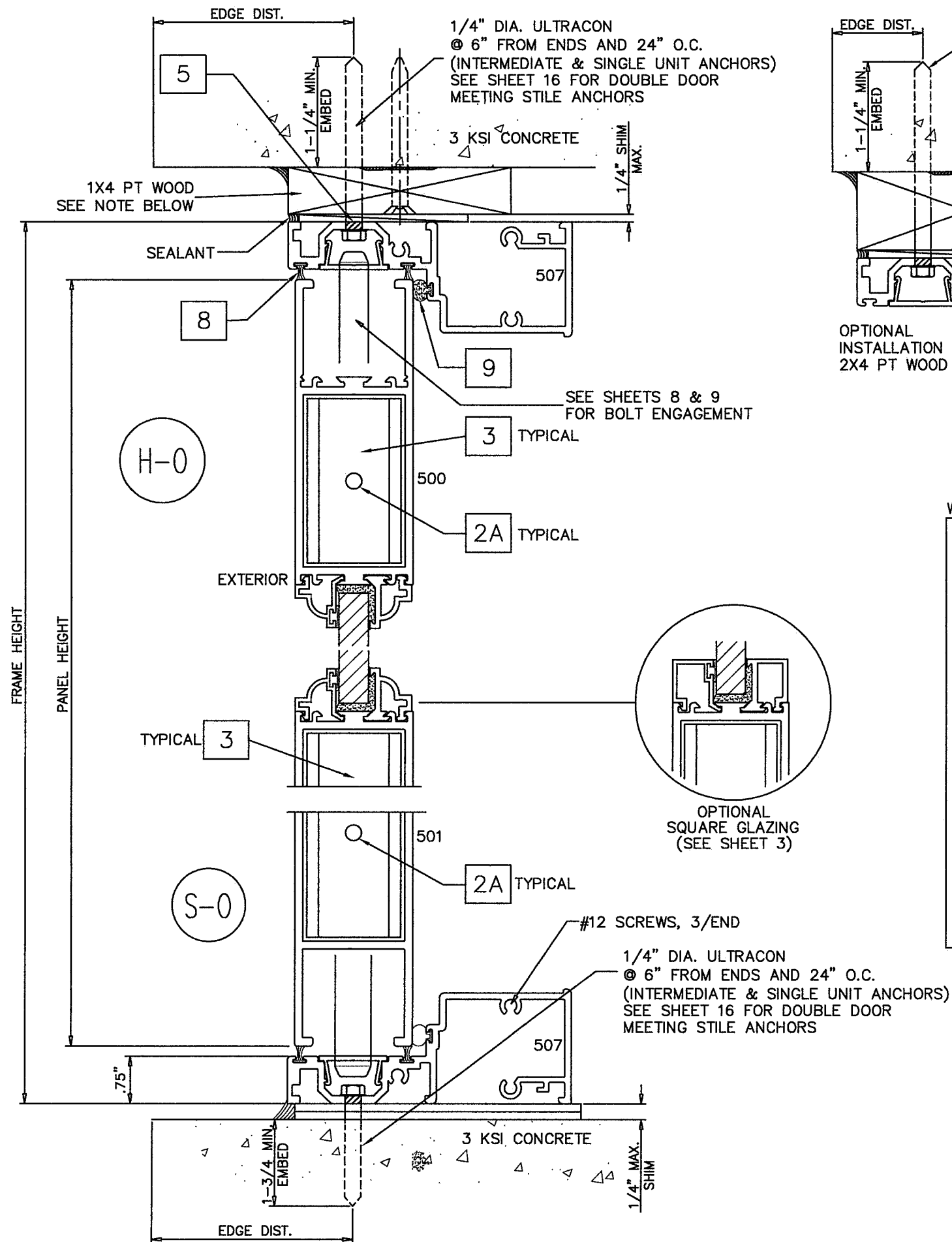
JACKSON 2086I

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0619.10
Expiration Date 10/25/2022
By Ishag I. Chanda
Miami-Dade Product Control

Revision:			
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 - OPAQUE & OS (LM)	
DATE 06/12/2020		DRAWN BY J ROSOWSKI	
SHEET 9 OF 17		NOA 450FD2-NOA	
SCALE NTS		REV. A	
TITLE FD450 OUTSWING			

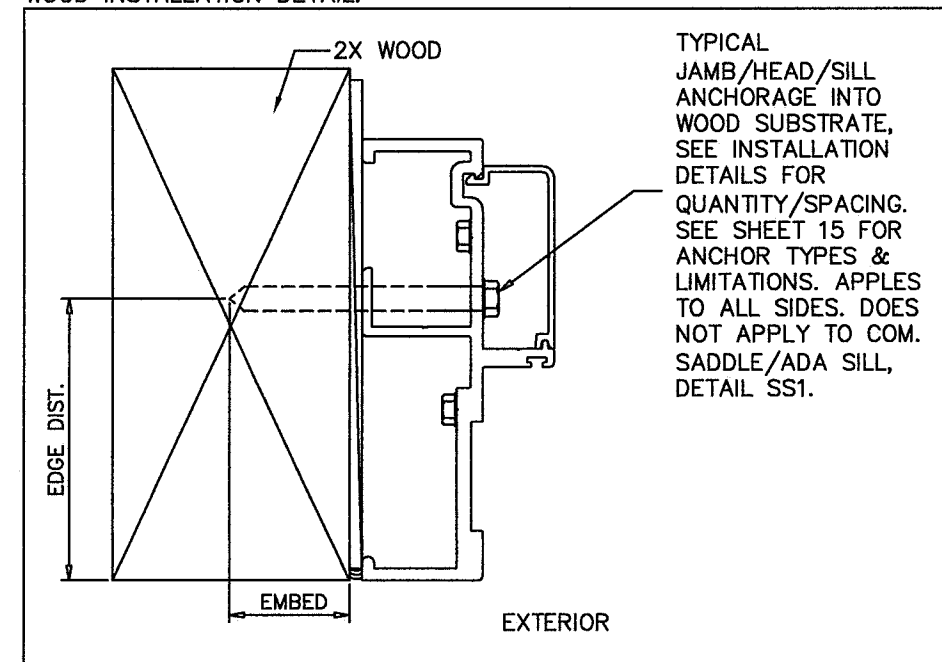


A. LYNN MILLER, P.E.
P.E.# 58705



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 NOA-No. 20-0619.10
 Expiration Date 10/25/2022
 By Ishag I. Chande
 Miami-Dade Product Control

WOOD INSTALLATION DETAIL:

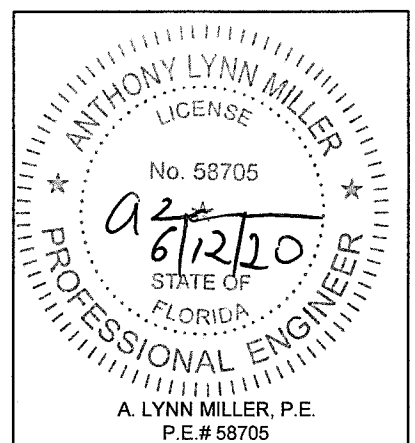


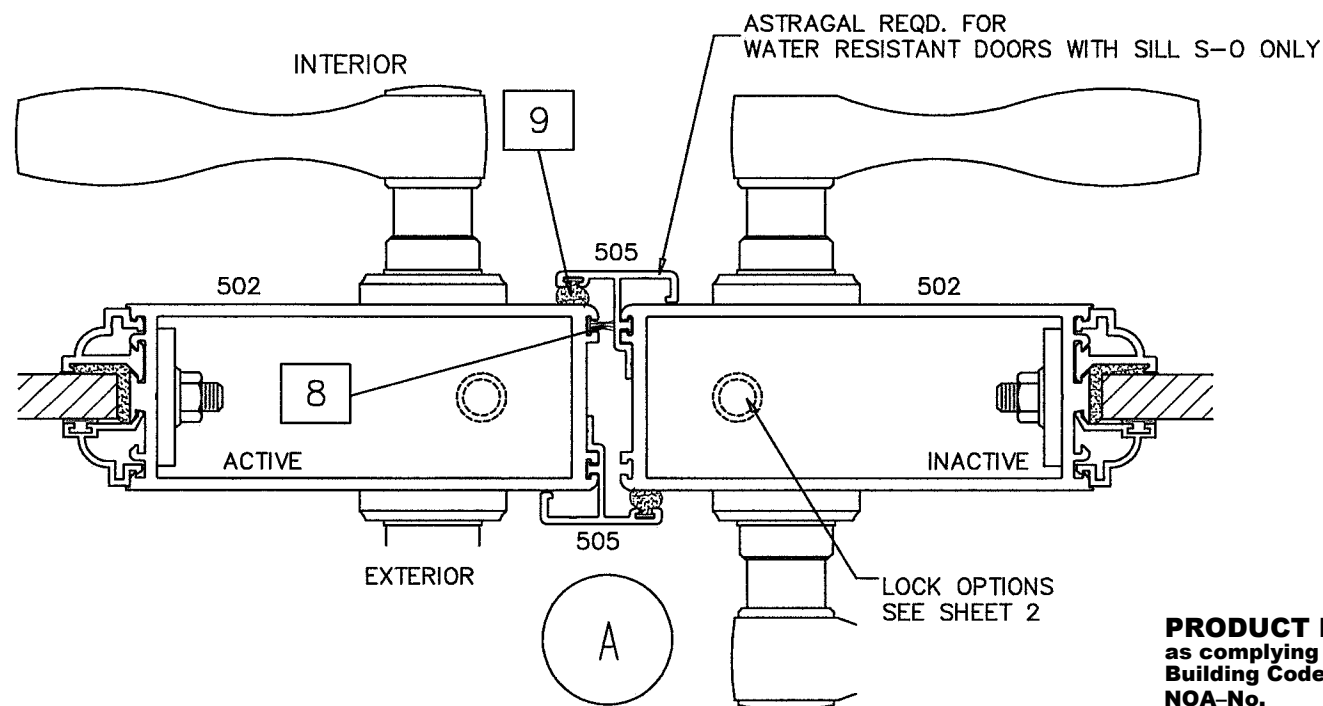
OPTIONAL INSTALLATION
 DIRECTLY INTO 2X WOOD

- 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.

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

W ^{INDOOR} [®]		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 - OPAQUE & OS (LM)		Date	06/12/2020
INSTALLATION DETAILS 1		By	J ROSOWSKI
FD450 OUTSWING		DWG	10 OF 17
Scale		Sheet	450FD2-NOA
Series		NTS	Rev. A
Desc.			



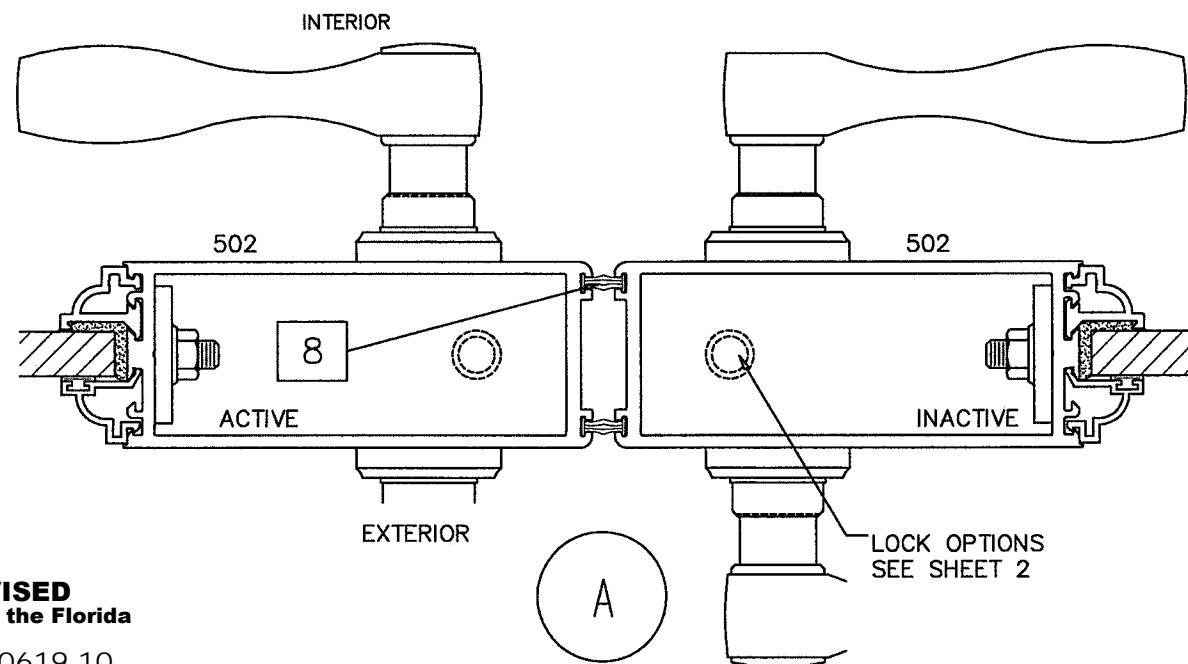


LOCK STILES WITH WATER RESISTANCE

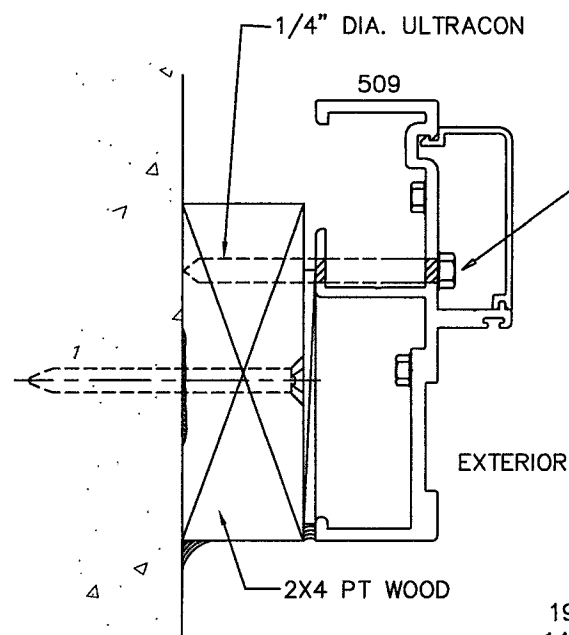
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Miami-Dade Product Control



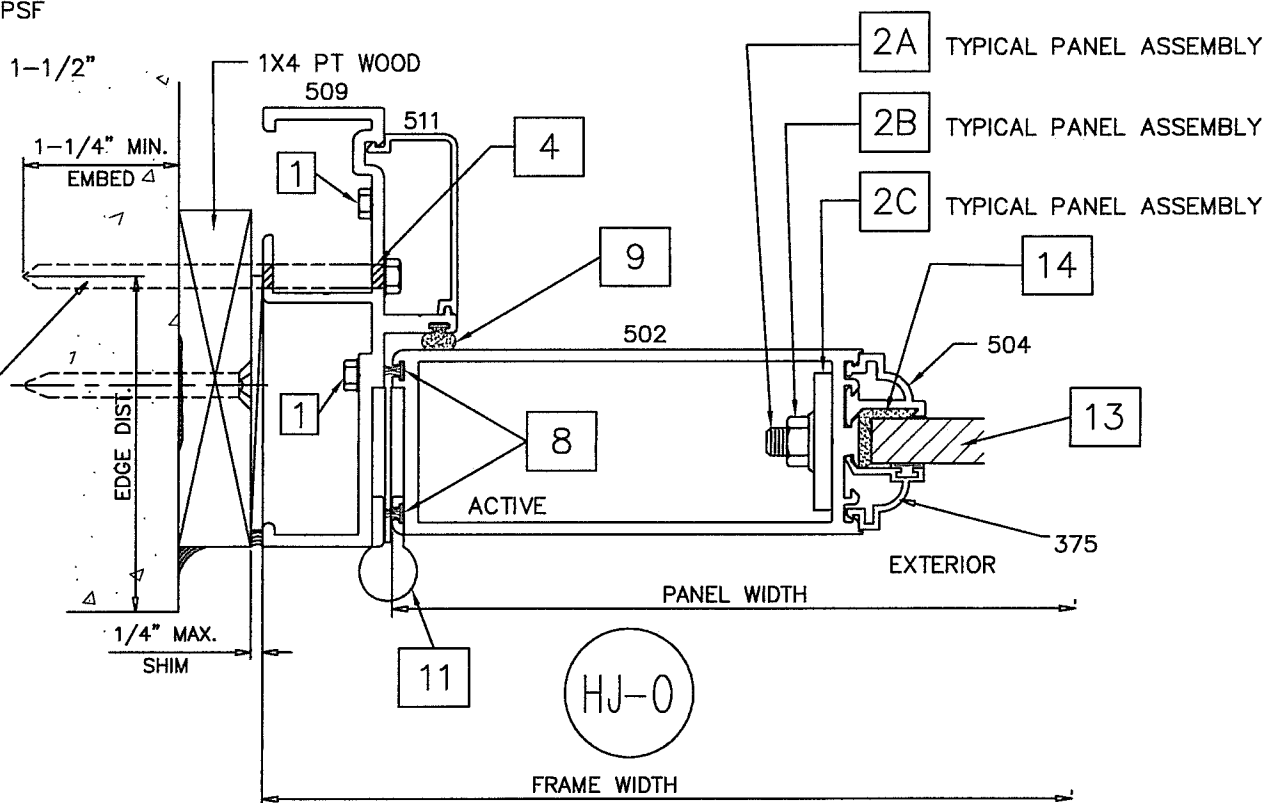
LOCK STILES WITHOUT WATER RESISTANCE



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.

Revision:

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

Date 06/12/2020

By J ROSOWSKI

450 ALUM. FRENCH DOOR - OPAQUE & OS (LM)

INSTALLATION DETAILS 2

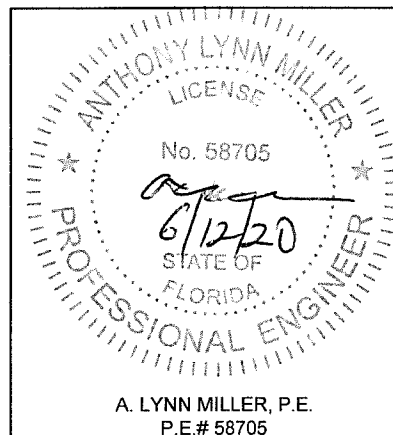
Rev. A

No. 450FD2-NOA

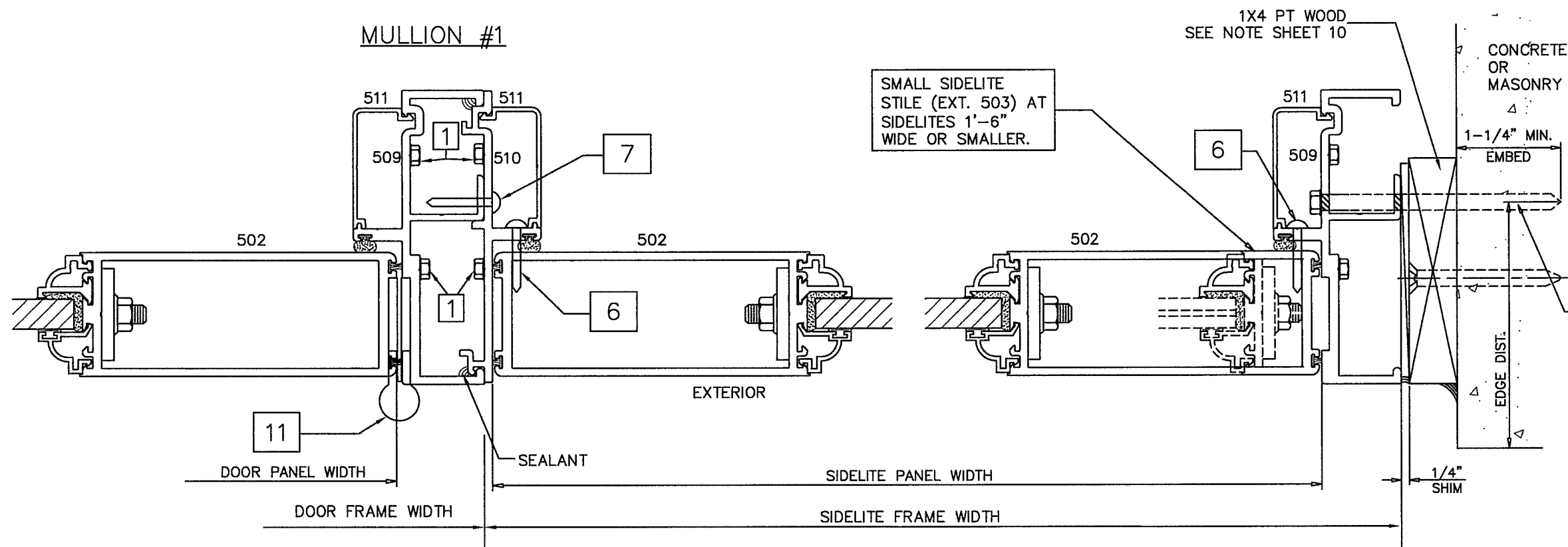
Sheet 11 OF 17

Scale NTS

Series FD450 OUTSWING



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

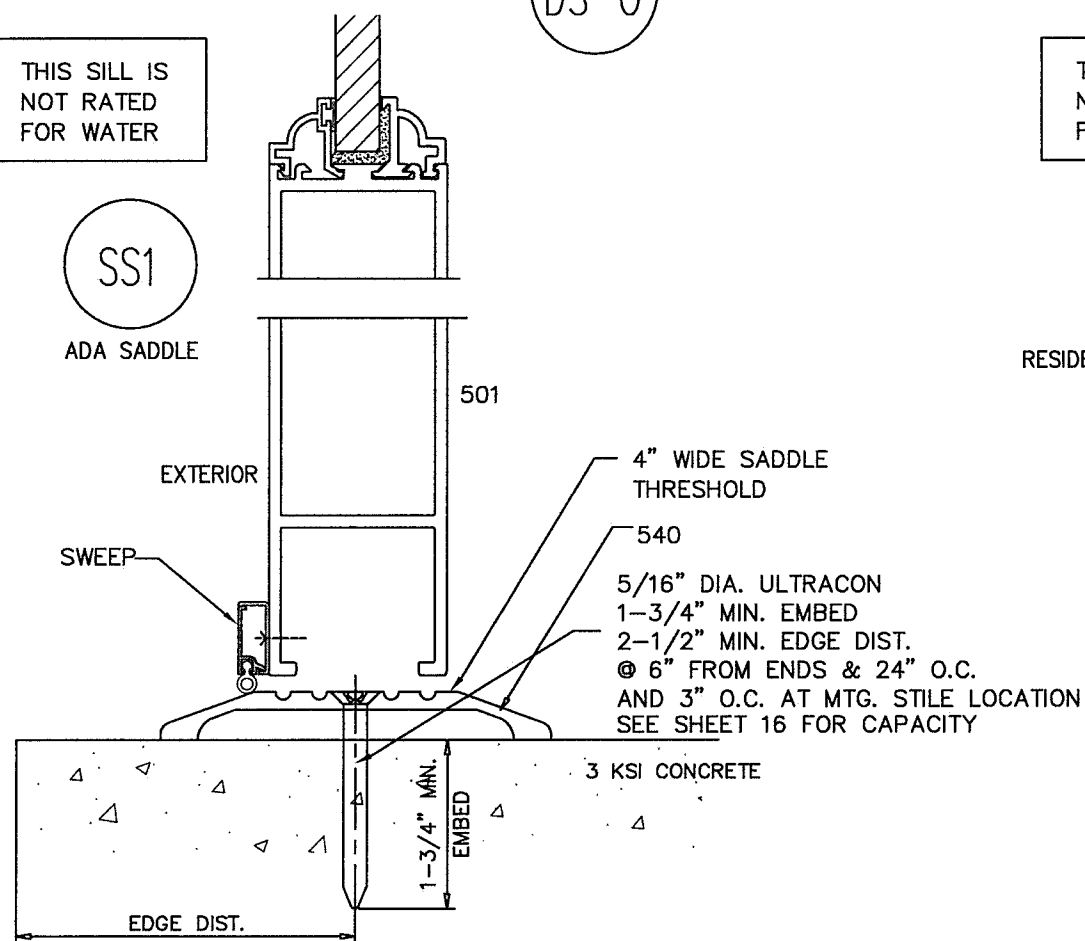


TYPICAL JAMB ANCHORS:
1/4" DIA. ULTRACON
@ 6" FROM ENDS AND
19-3/8" O.C. FOR LOADS
UP TO 70 PSF.
14-1/2" O.C. FOR LOADS
UP TO 110 PSF.
12" O.C. FOR LOADS
ABOVE 110 PSF.
2-1/2" MIN. EDGE DIST.

THIS SILL IS
NOT RATED
FOR WATER

SS1

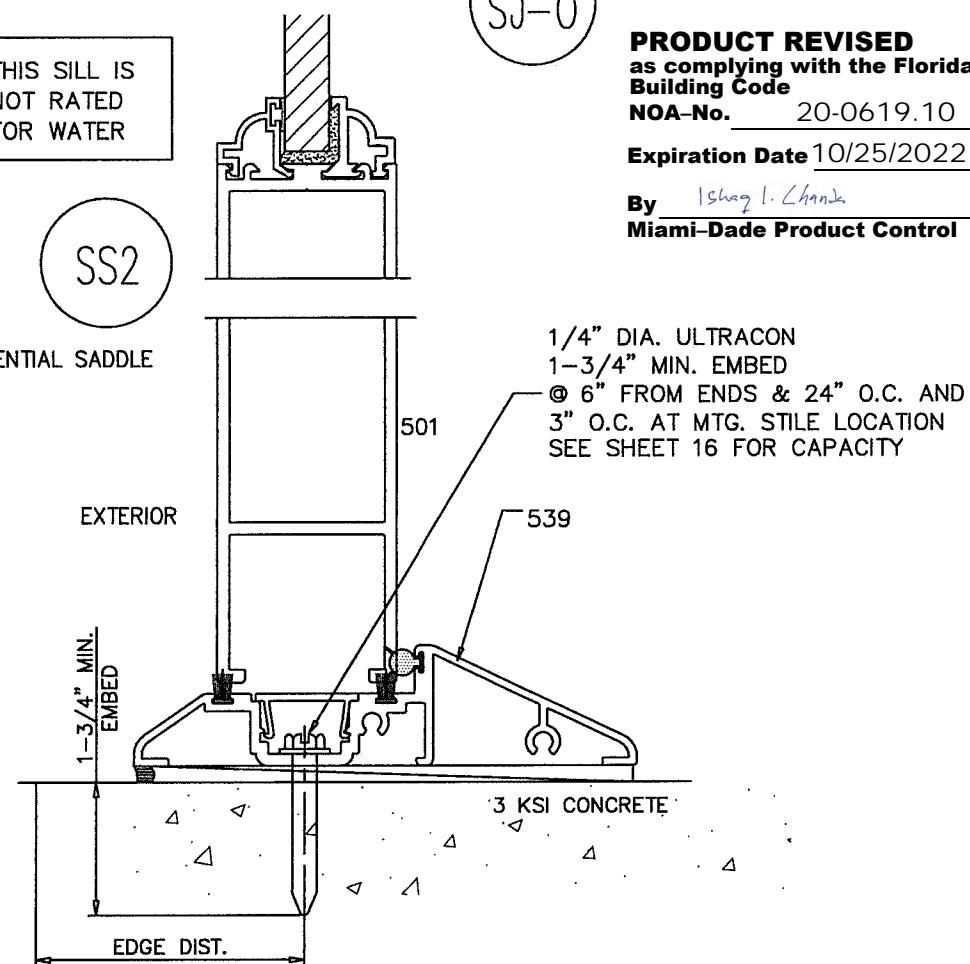
ADA SADDLE



THIS SILL IS
NOT RATED
FOR WATER

SS2

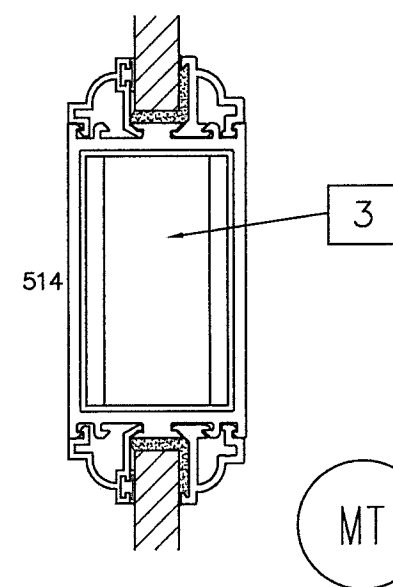
RESIDENTIAL SADDLE



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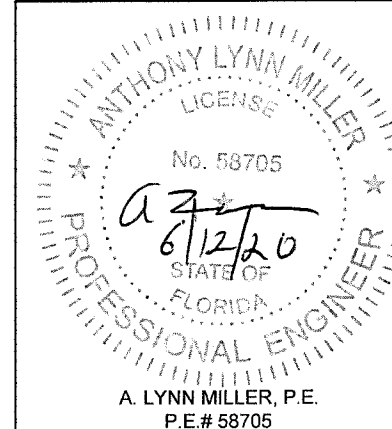
REFER TO SHEET 6 OF 17 FOR
TYPICAL BILL OF MATERIALS

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

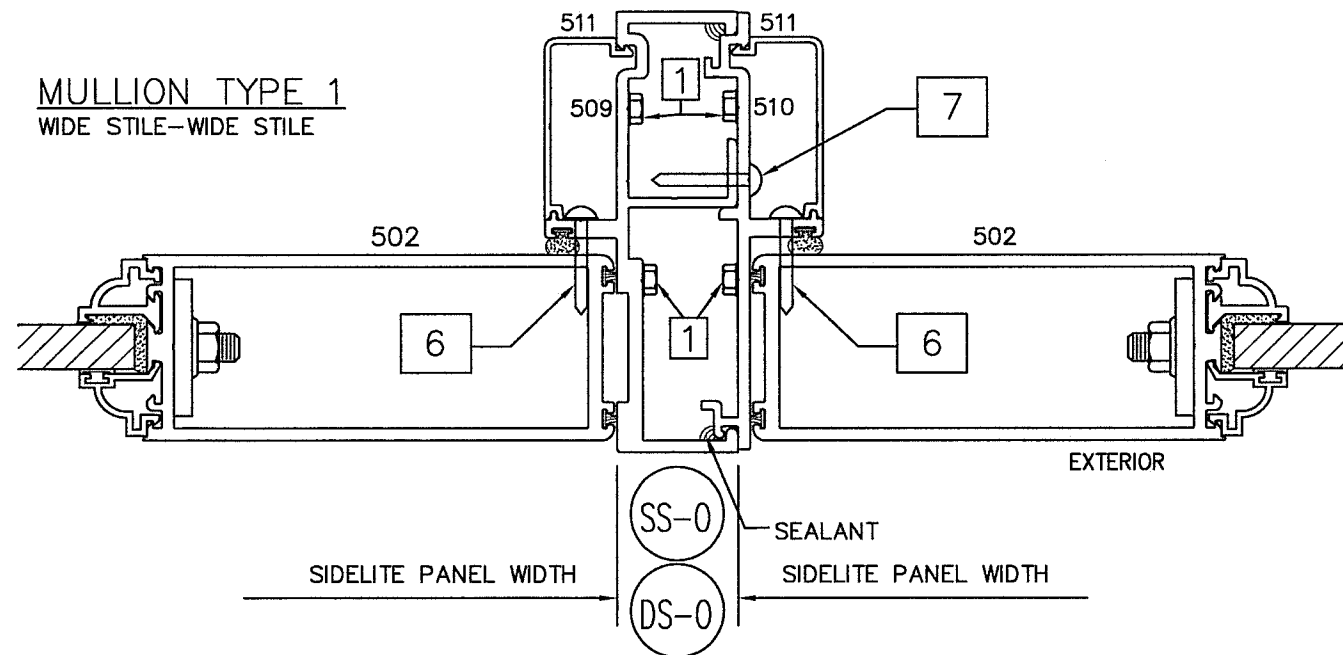
REGISTRATION #29296

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

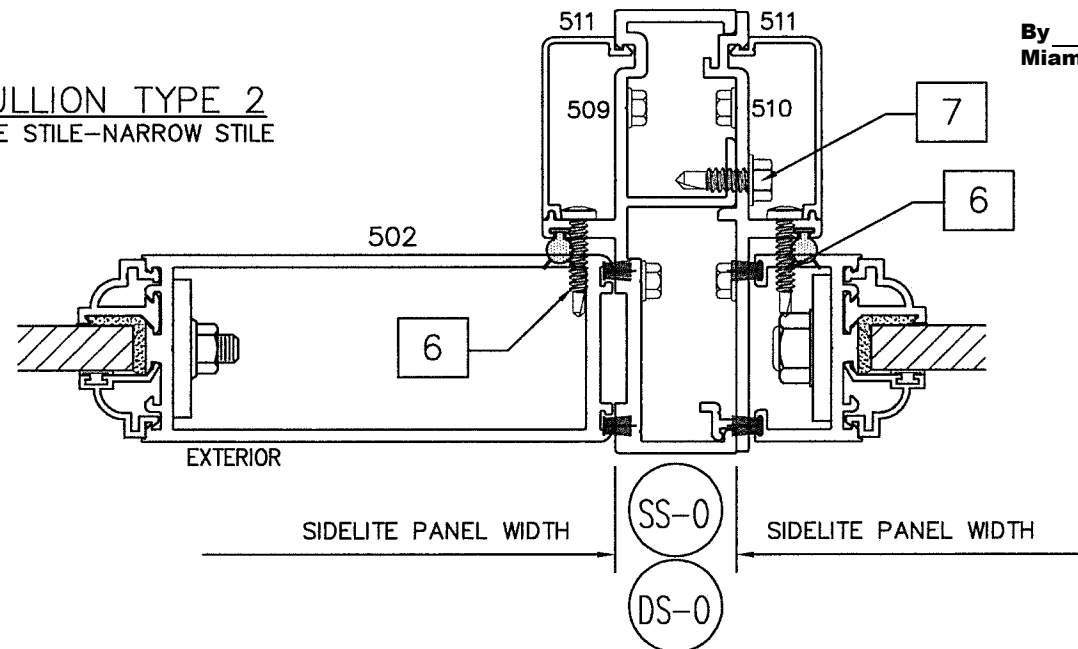
Series	Desc.	Title	Scale	Sheet	No.	DWG	Rev.
450	ALUM. FRENCH DOOR - OPAQUE & OS (LM)	06/12/2020					A
FD450	OUTSWING	NTS	12 OF 17	450FD2-NOA			
	INSTALLATION DETAILS 3	By		J ROSOWSKI			



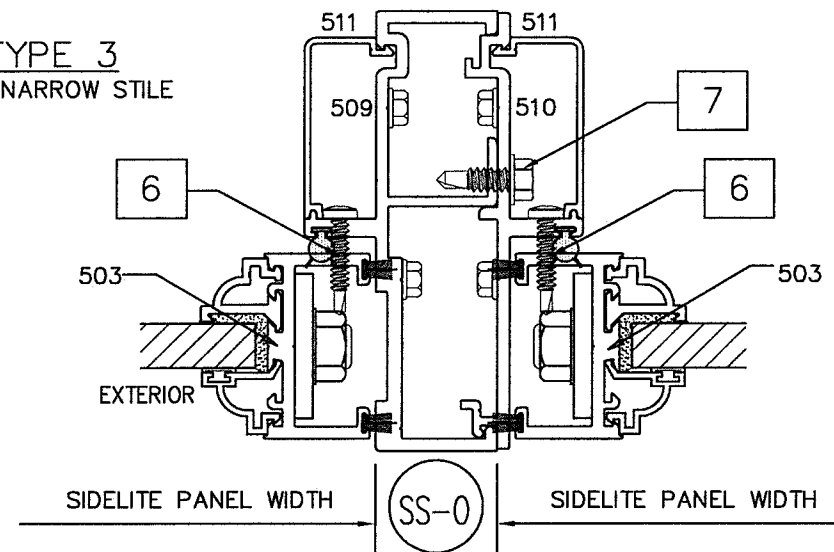
MULLION TYPE 1
WIDE STILE-WIDE STILE



MULLION TYPE 2
WIDE STILE-NARROW STILE



MULLION TYPE 3
NARROW STILE-NARROW STILE



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Expiration Date 10/25/2022

By *Shag L. Chanda*
Miami-Dade Product Control

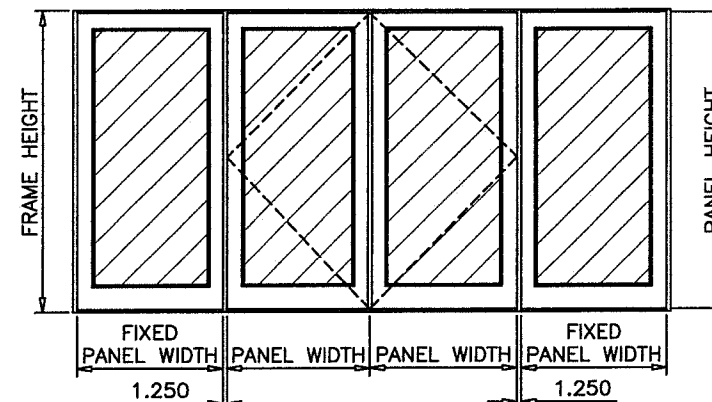
NOTES:
1) LOWER DESIGN LOAD FROM PANEL
PERFORMANCE CHART ON SHEET 14
OR MULLION PERFORMANCE CHART
ABOVE SHALL CONTROL.

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	-	-	-	-

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



WinDoor®

INCORPORATED
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

Date 06/12/2020

By J ROSOWSKI

Rev. A

Date 06/12/2020

By J ROSOWSKI

Rev. A

Date 06/12/2020

By J ROSOWSKI

Rev. A

Date 06/12/2020

By J ROSOWSKI

Rev. A

Date 06/12/2020

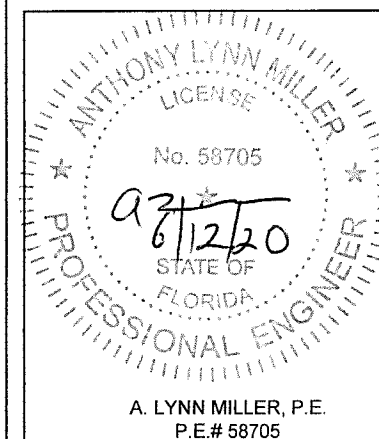
By J ROSOWSKI

Rev. A

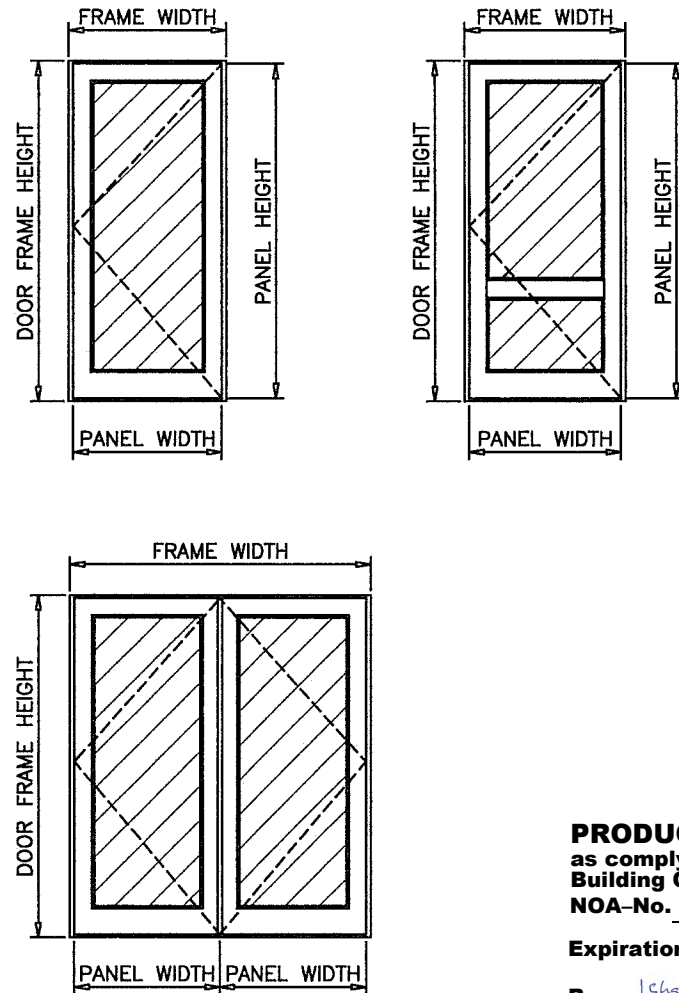
Date 06/12/2020

By J ROSOWSKI

Rev. A



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



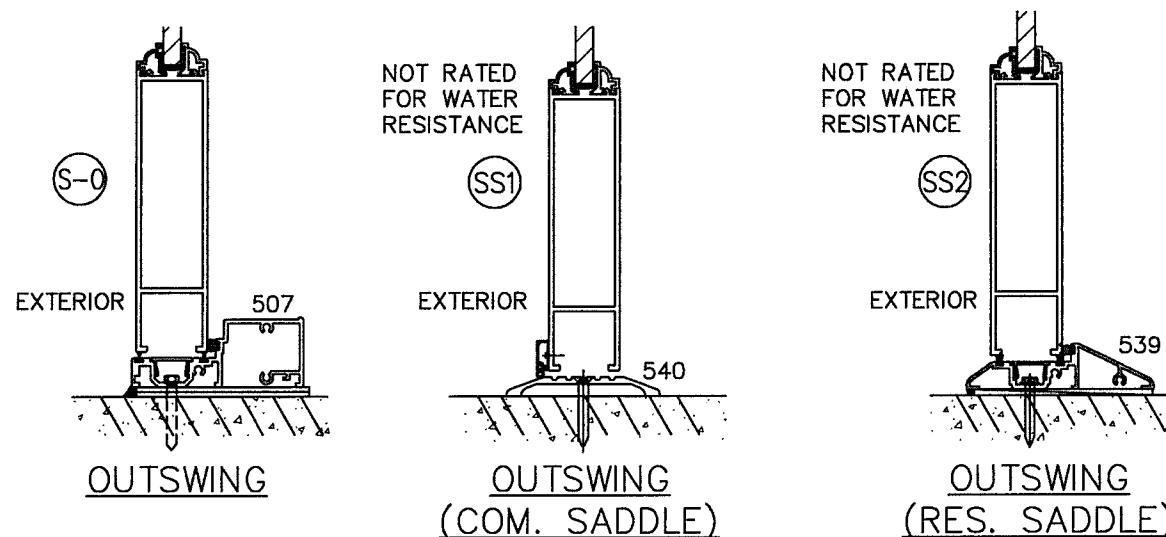
PRODUCT REVISED
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Building Code
NOA-No. 20-0619.10
Expiration Date 10/25/2022
By Ishag I. Chande
Miami-Dade Product Control

NOTES:

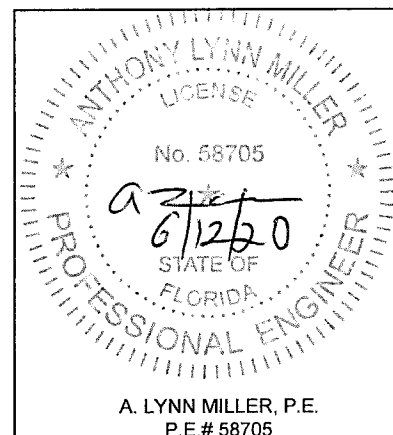
- 1) FOR SINGLE OR DOUBLE LEAF DOORS AND SINGLE SIDELITES CAPACITY SEE CHART ON THIS SHEET.
- 2) SEE BELOW FOR THRESHOLD TYPES.
- 3) SEE SHEET 2 FOR LOCK CAPACITIES FOR SINGLE AND DOUBLE DOORS.
- 4) SEE SHEET 13 FOR MULLION TYPES AND DESIGN LOAD CAPACITY.
- 5) SEE CHART ON SHEET 15 FOR MULLION ANCHORS 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.

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

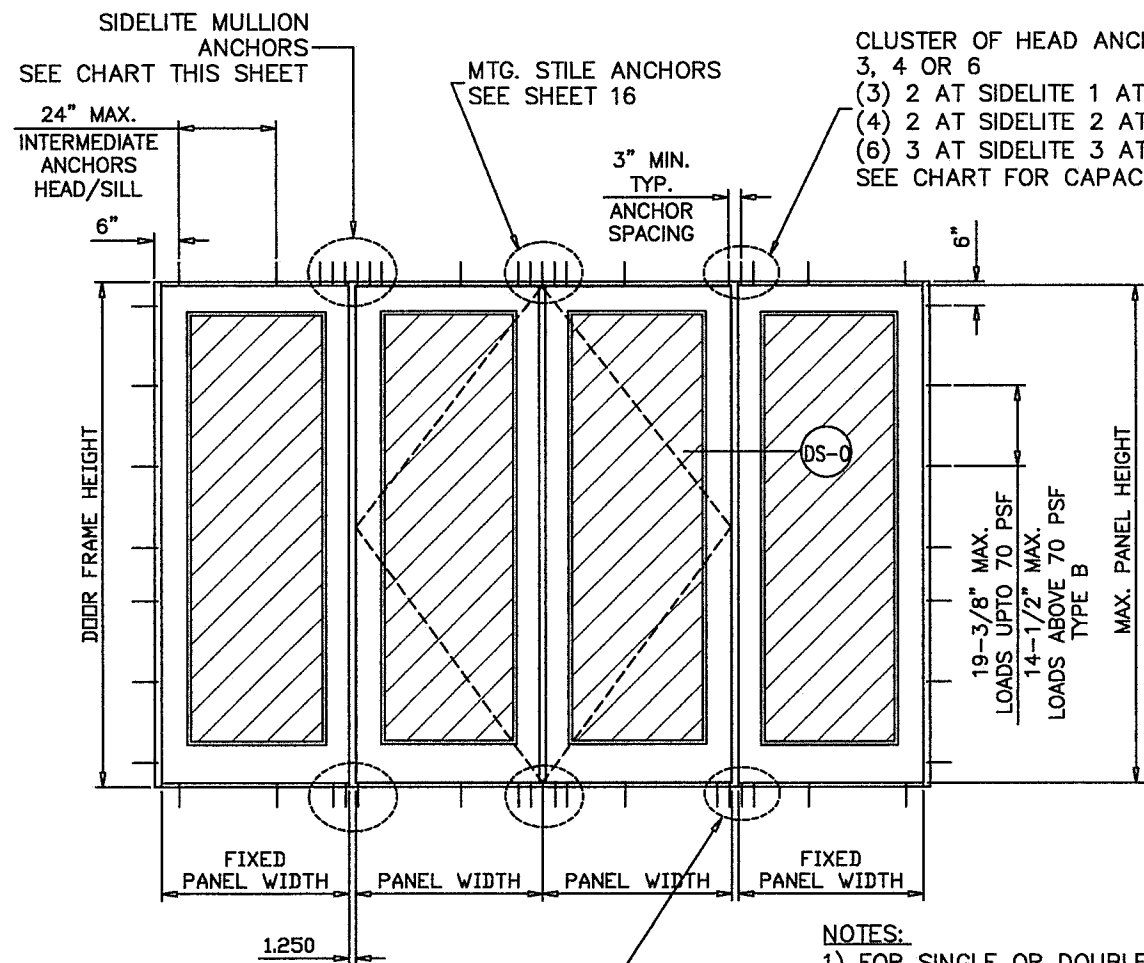


WinDoor®
INCORPORATED
104 TRIPLE DIAMOND BLVD.
N. VENICE, FL 34275
(407) 481-8400



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

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		450FD2-NOA	
						No.		14 OF 17	
						Sheet		NTS	
						Scale		FD450 OUTSWING	
						Series		COMPOSITE PANEL DP	
						Title		450 ALUM. FRENCH DOOR - OPAQUE & OS (LM)	



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\"/>

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2\"/>

THRU 1BY WOOD BUCKS INTO CONC./HOLLOW BLOCK
1-1/4\"/>

DIRECTLY INTO CONCRETE
1-1/4\"/>

EDGE DISTANCES

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

INTO WOOD STRUCTURE = 1\"/>

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

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2\"/>

THRU 1BY WOOD BUCKS INTO CONC./HOLLOW BLOCK
1-1/4\"/>

DIRECTLY INTO CONCRETE
1-3/4\"/>

DIRECTLY INTO CONCRETE
1-3/4\"/>

EDGE DISTANCES

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

INTO WOOD STRUCTURE = 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.

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

AT HEAD OR JAMBS
DIRECTLY INTO CONCRETE
1-3/4\"/>

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

AT HEAD OR JAMBS
DIRECTLY INTO CONCRETE
1-3/4\"/>

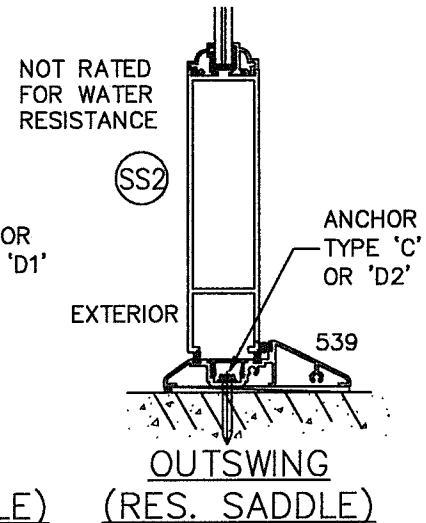
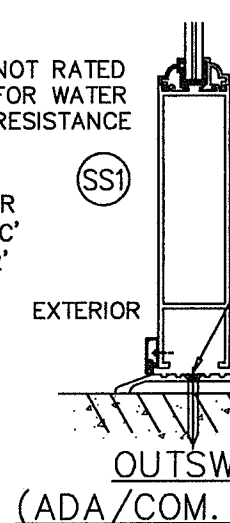
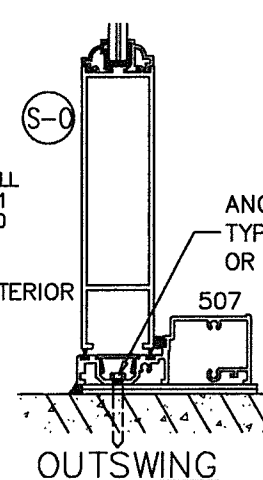
TYPE 'D2' - #14 SMS (GRADE 5 CRS)
INTO WOOD STRUCTURES
WITH 1-3/8\"/>

AT HEAD OR SILL

AT ADA SILL
DETAIL SS1
PART #540

AT SILL
DETAIL S-1, PART #507
OR
DETAIL SS2, PART #539

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



MULLION ANCHORS AT SIDELITES

DESIGN LOAD CAPACITY-PSF

NOMINAL DIMS.	WIDTH (W)	FRAME HEIGHT	TYPE 'B' OR 'B+' AT HEAD			TYPE 'C' 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 3 ANCHORS	CLUSTER OF 4 ANCHORS
2/0	2/6	3/0	3/6	2/0	2/6	3/0	3/6	2/0	2/6	3/0	3/6
82-3/4"	84-3/4"	90-3/4"	96-3/4"	102-3/4"	108-3/4"	114-3/4"	120-3/4"	106.7	110.0	110.0	110.0
86.2	96.4	104.2	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
72.3	83.0	84.2	110.0	110.0	110.0	110.0	110.0	109.3	110.0	101.0	110.0
62.3	80.6	70.6	110.0	110.0	110.0	110.0	110.0	94.2	110.0	87.0	110.0
60.8	81.1	60.8	110.0	110.0	110.0	110.0	110.0	91.9	110.0	98.7	110.0
97.3	110.0	78.6	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
78.6	104.8	65.9	110.0	110.0	110.0	110.0	110.0	99.7	110.0	92.1	110.0
56.8	87.9	56.8	110.0	110.0	110.0	110.0	110.0	85.9	110.0	79.4	101.5
91.2	110.0	73.7	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
98.3	110.0	61.9	110.0	110.0	110.0	110.0	110.0	103.0	110.0	110.0	110.0
82.5	110.0	53.3	110.0	110.0	110.0	110.0	110.0	80.5	107.4	74.4	95.2
85.9	110.0	69.4	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
92.6	110.0	58.2	110.0	110.0	110.0	110.0	110.0	104.9	110.0	97.0	110.0
77.7	110.0	50.2	110.0	110.0	110.0	110.0	110.0	88.0	110.0	81.4	104.1
66.9	110.0	81.2	110.0	110.0	110.0	110.0	110.0	75.8	101.1	70.1	89.6
108.2	110.0	65.6	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
87.5	110.0	55.0	110.0	110.0	110.0	110.0	110.0	99.2	110.0	91.7	110.0
73.4	110.0	76.9	110.0	110.0	110.0	110.0	110.0	83.2	110.0	76.9	98.3
102.6	110.0	62.2	110.0	110.0	110.0	110.0	110.0	110.0	110.0	107.5	110.0
82.9	110.0	52.2	110.0	110.0	110.0	110.0	110.0	94.0	110.0	86.9	110.0
69.5	110.0	73.1	110.0	110.0	110.0	110.0	110.0	78.8	105.1	72.9	93.2
97.5	110.0	59.1	110.0	110.0	110.0	110.0	110.0	110.0	110.0	102.2	110.0
78.8	110.0	49.6	110.0	110.0	110.0	110.0	110.0	89.3	110.0	82.5	105.6
99.1	110.0		110.0	110.0	110.0	110.0	110.0	74.9	99.9	69.2	88.6

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.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0619.10

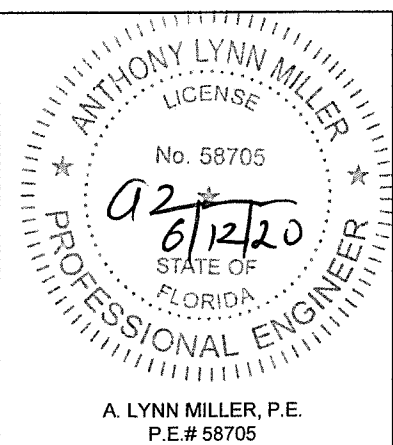
Expiration Date 10/25/2022

By *Ishag I. Chank*
Miami-Dade Product Control

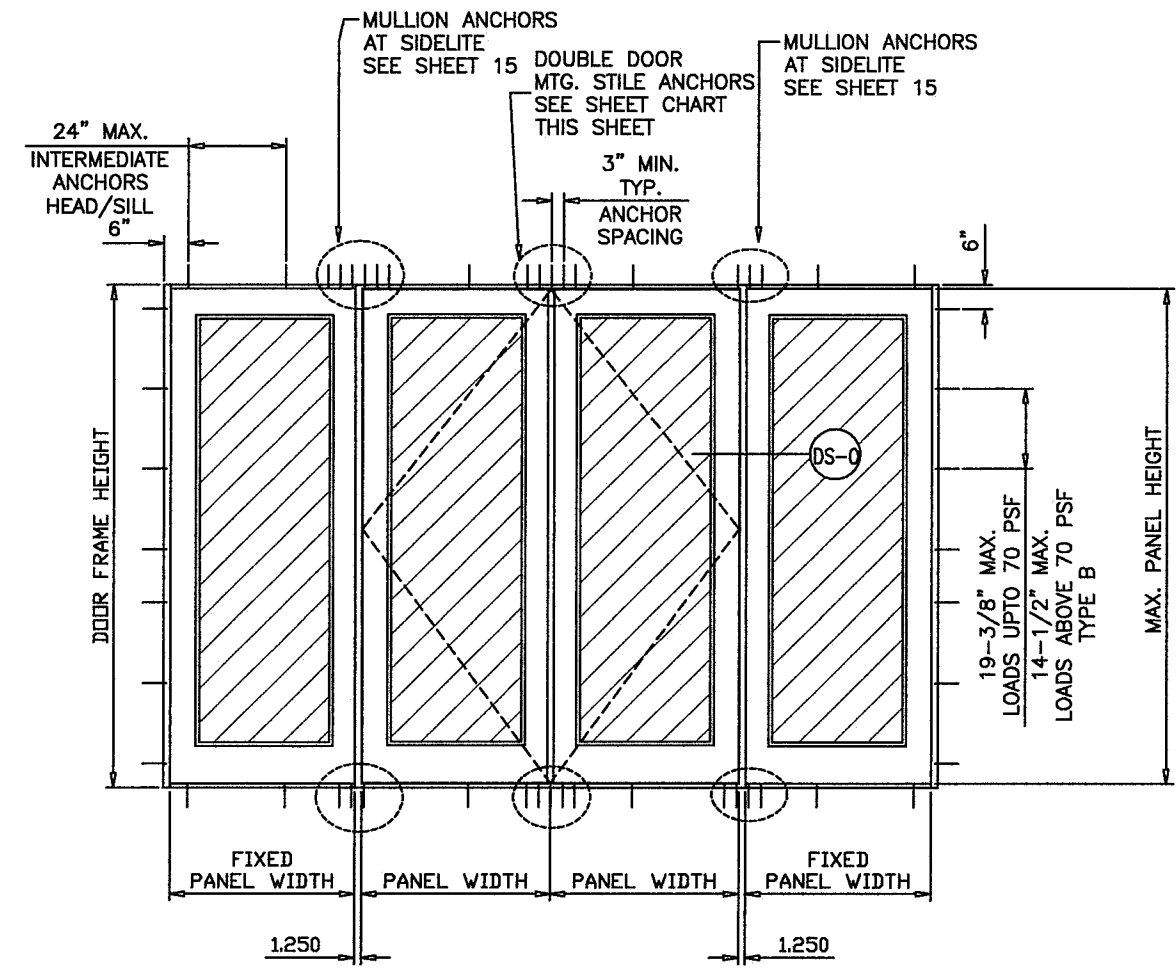
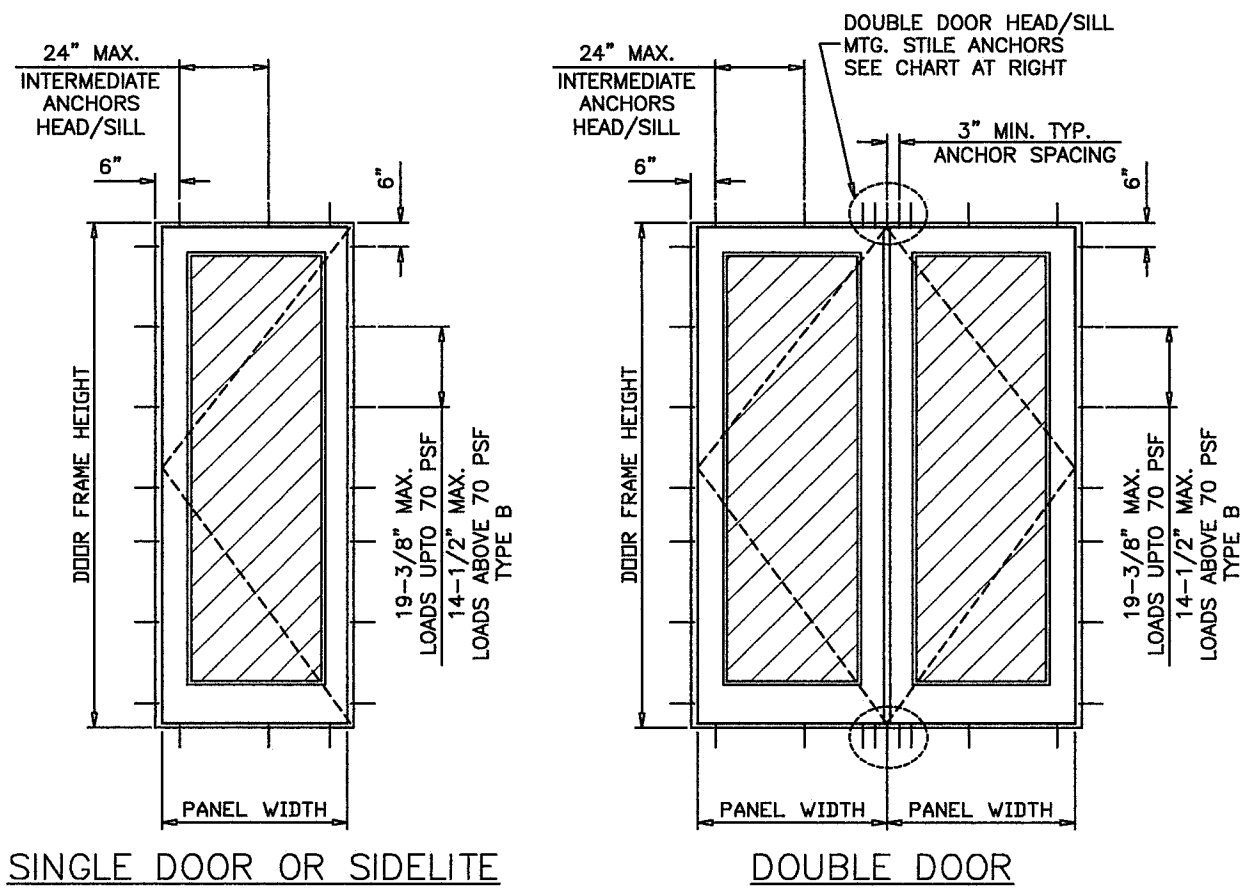
ADDED ANCHOR TYPE, &
REFORMATTED - JR - 6/11/20

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		
450 ALUM. FRENCH DOOR - OPAQUE & OS (LM)	ANCHOR DP	No.	450FD2-NOA	15 OF 17	Sheet
		DWG	FD450 OUTSWING		
		Scale	NTS		
		Series	FD450 OUTSWING		

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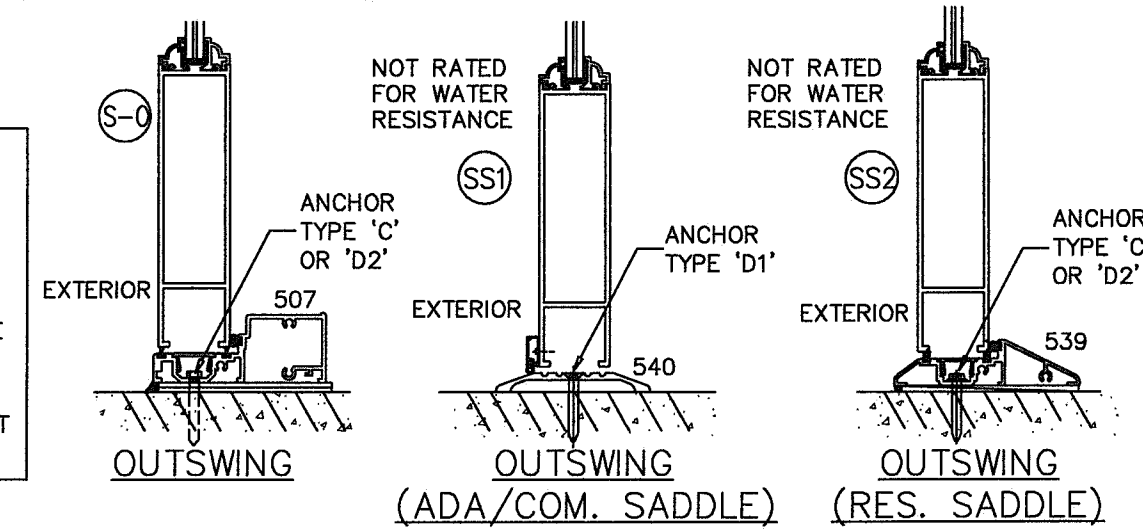
A. LYNN MILLER, P.E.
P.E.# 58705



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	TYPE 'C' AT S-I & SS2 SILL	CLUSTER OF 3 ANCHORS	TYPE 'D1' AT SS1 SILL OR TYPE 'D2' AT S-I & SS2 SILL	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
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Expiration Date 10/25/2022
By *Ishag I. Chank*
Miami-Dade Product Control

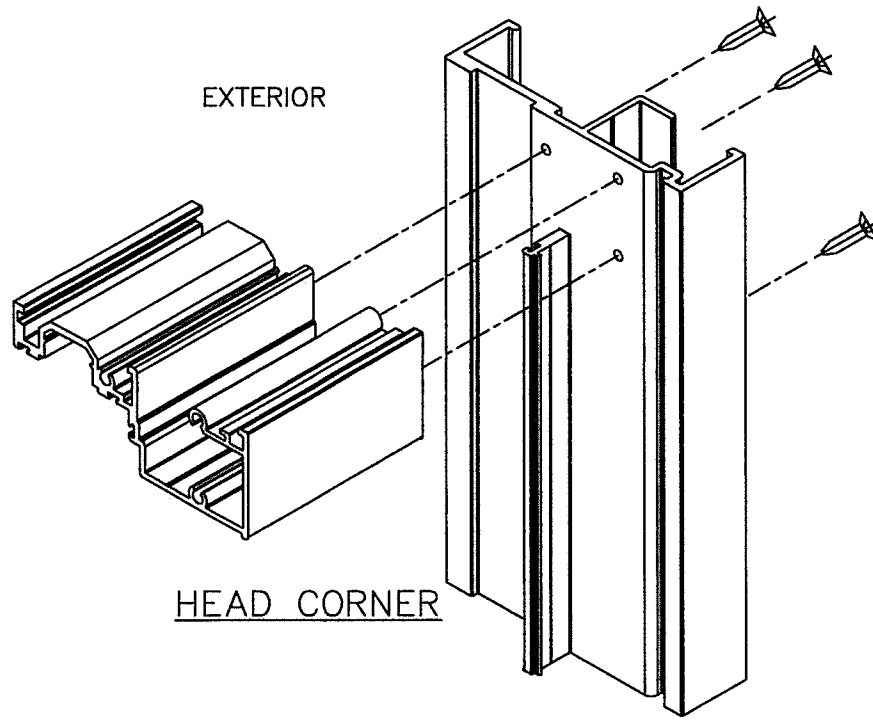
ADDED ANCHOR TYPE, & REFORMATTED - JR - 6/11/20

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		By			No.	450FD2-NOA
					DWG	16 OF 17
					Sheet	NTS
450 ALUM. FRENCH DOOR - OPAQUE & OS (LM)		ANCHOR DP		FD450 OUTSWING		Scale

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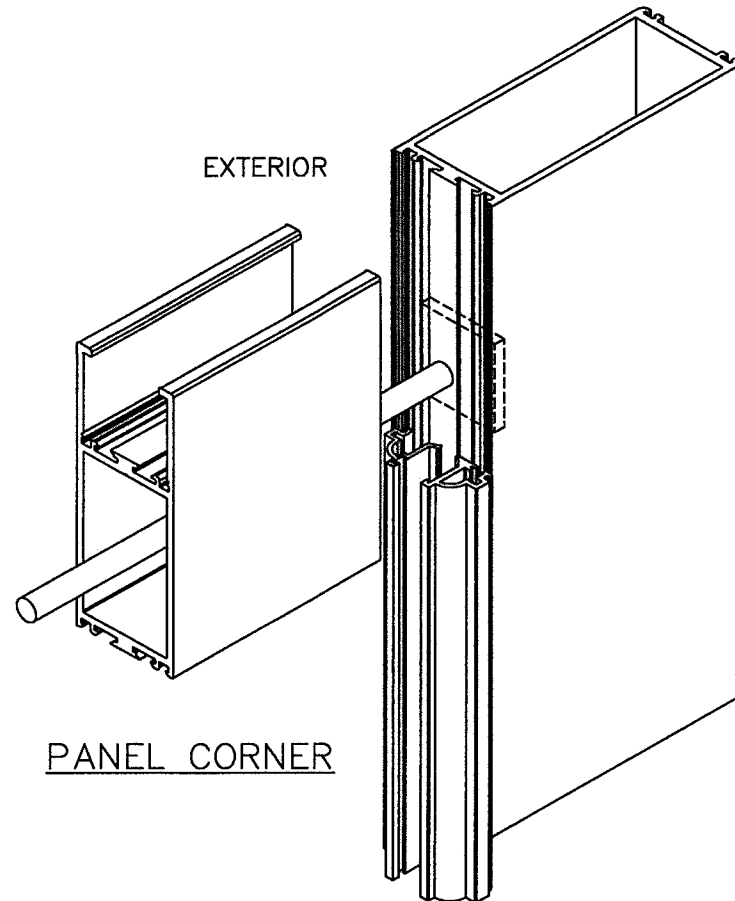
ANTHONY LYNN MILLER
LICENSE
No. 58705
6/12/20
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

CORNER DETAILS

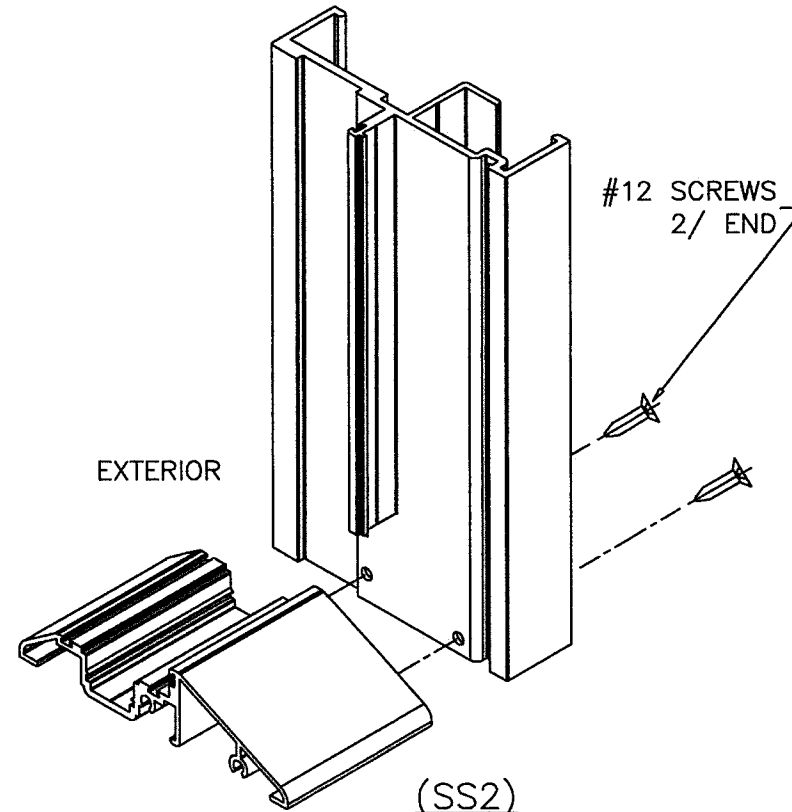


HEAD CORNER

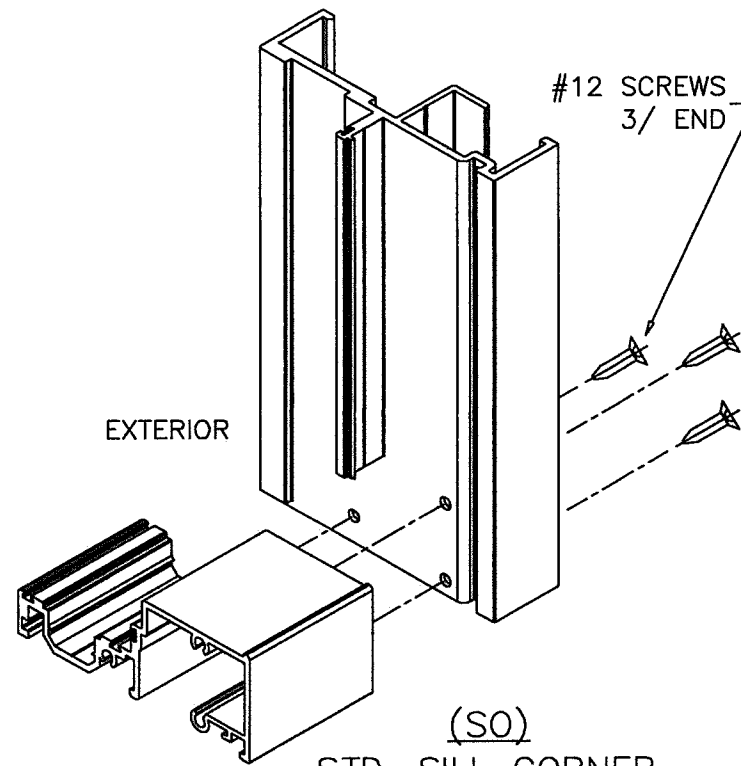
CORNERS TO BE SEALED WITH LOW MODULUS SILICONE SEALANT.



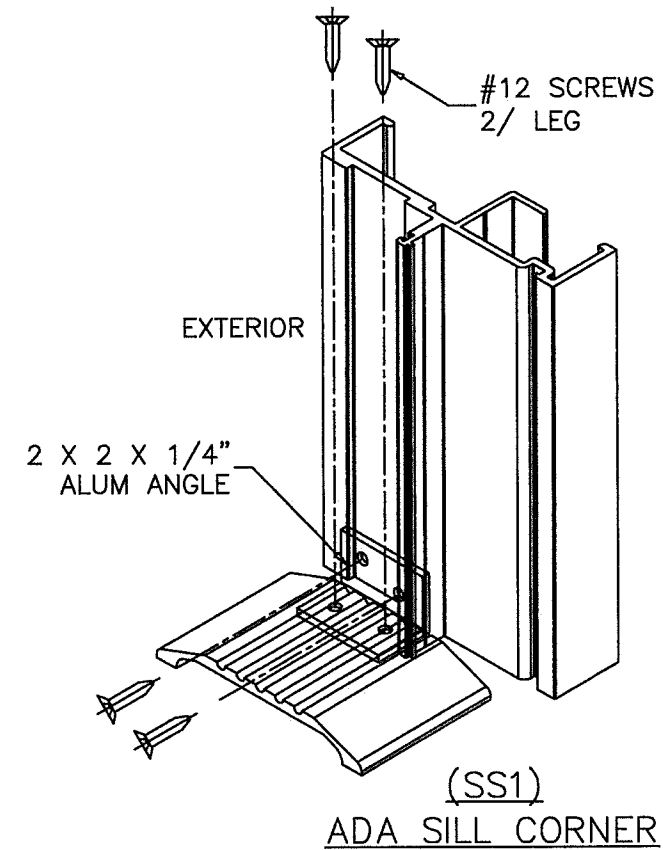
PANEL CORNER



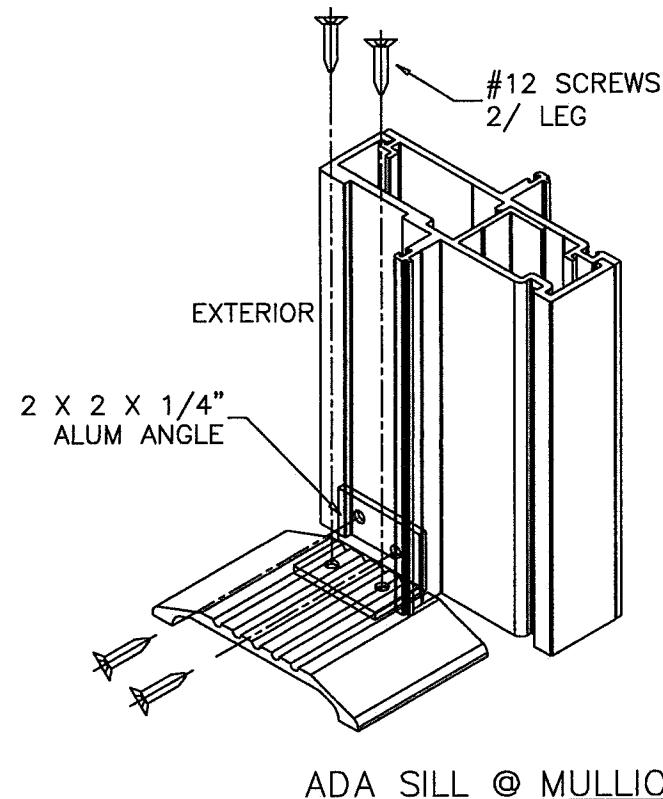
(SS2)
RESIDENTIAL SADDLE SILL



(SO)
STD. SILL CORNER



(SS1)
ADA SILL CORNER



ADA SILL @ MULLION

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		Drawn		No.	450FD2-NOA	DWG	
WINDOOR® INCORPORATED 104 TRIPLE DIAMOND BLVD. N. VENICE, FL 34275 (407) 481-8400	450 ALUM. FRENCH DOOR - OPAQUE & OS (LM)	CORNER DETAILS	FD450 OUTSWING	Sheet	17 OF 17	Scale	NTS
				Series		Desc.	

