MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

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 Inswing glazed Doors w/wo Sidelites - Impact

APPROVAL DOCUMENT: Drawing **450FD3-NOA Rev A** (former No.**18-106D)**, titled "Series 450 Alum French Doors Glazed & IS", sheets 1thru 14 of 14, prepared by manufacturer, dated 06/12/20, signed and sealed by Lynn Miller, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact
Limitations:
1. See Design Pressure ratings in sheets **2, 4, 5, 13, 14, 15 &16** for unit sizes Vs applicable lock options, mullion type, door/ sidelite, glass / sill types and anchors. Lower Design Pressure shall control.
2. For mulled units lower Design pressure of doors or mullion shall control for entire assembly.
3. Exterior Design Pressure= +50.0 PSF w/ threshold (sill type S-I). Sills (threshold) types SS-1 & SS-2 are not rated for water infiltration. See thresholds (sills sheet **9**).
4. See Partial 7/16" & 1" Composite panels in sheet **3**. Narrow stile sidelites are limited to **18**" or less.
5. The frame is of alternate size must not exceed 125 ft^2, nor panel tested area and max. Panel height.

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

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

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

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

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA **renews # 20-0619.07** (PVT) consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above.
The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

MIAMI-DADE COUNTY APPROVED

Ishaq I. Chanda

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S

A. DRAWINGS

1. Manufacturer's die drawings and sections (Submitted under files below).
2. Drawing No. **W06-73 Rev I**, titled "Series 450 Inswing Doors & Sidelites", sheets 1, 1.1, 1.2, 2, 2.1, 2.2, 3, 3.1, 4, 5, 6, 7, 7.1 and 7.2 of 7, prepared by Al-Farooq Corporation, dated 10-27-06 and last revised on 03-22-16, signed and sealed by Javad Ahmad, P.E.

B. TESTS (Submitted under files #**14-1103.05**/#**12-0706.04**/#**11-1025.03**/#**09-0723.04**)

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94(+50.0 PSF, sill S-I only)
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

   Along with manufacturer's parts and section drawing marked-up drawings of aluminum In swing / Outswing door w/wo sidelites, by Hurricane Testing Laboratory, Inc., Test Report No. **HTL-0080-0304-11** dated 11/28/2011 and **HTL-0080-0902-11**, signed and sealed by Vinu J. Abraham, P.E.
   Note: This test report has been revised by addendum letters, issued by Architectural Testing (Former Hurricane Testing Lab), dated 01/20/12 and 04/03/12, both signed and sealed by Vinu J. Abraham, P.E.

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

2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94.

   Along with manufacturer's parts and section drawing marked-up drawings of aluminum In/out 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.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No 21-0917.05
Expiration Date: November 09, 2026
Approval Date: October 07, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (continue**):**

3. Reference Certified Testing Laboratories test report # CTLA **3056WA**, issued to CGI Windows & Doors Inc. pert 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 #**14-1103.05)**

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

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

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

F. STATEMENTS (Submitted under files #**14-1103.05)**

1. Statement letter of conformance to FBC 2014(**5th Edition**) and letter of no financial interest, prepared by Al Farooq Corporation, dated 10/03/14, 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 & renews # 14-1103.05**, 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.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No 21-0917.05
Expiration Date: November 09, 2026
Approval Date: October 07, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under previous approval

A. DRAWINGS

1. Drawing **450FD3-NOA Rev A** (former No.**18-106D)**, titled "Series 450 Alum French Doors Glazed & IS", sheets 1thru 14 of 14, 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.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No 21-0917.05
Expiration Date: November 09, 2026
Approval Date: October 07, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

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

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-0808.02** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/4/23.
2. Notice of Acceptance No. **18–0301.06** issued to Eastman Chemical Company (MA) (Former Solutia, Inc.) for the "**Saflex CP - Saflex and Saflex HP Composite Glass Interlayers w/ PET Core"**, expiring on 12/11/23.
3. Notice of Acceptance No. **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

1. Statement letter of conformance to FBC 2020 (**7th** 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 **renews # 18-0926.05 (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

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No 21-0917.05
Expiration Date: November 09, 2026
Approval Date: October 07, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. New Evidence submitted

A. DRAWINGS

1. Drawing **450FD3-NOA Rev A** (former No.**18-106D)**, titled "Series 450 Alum French Doors Glazed & IS", sheets 1thru 14 of 14, prepared by manufacturer, dated 06/12/20, signed and sealed by Lynn Miller, P.E.

B. TESTS

1. None.

C. CALCULATIONS (submitted under file # 20-0619.07**)**

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

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

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

F. STATEMENTS

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

G. OTHER

1. This NOA **renews** #**20-0619.07 (PLA)**.
2. Additional associated reference file #**21-0917.02 (LMI).**

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No 21-0917.05
Expiration Date: November 09, 2026
Approval Date: October 07, 2021

SERIES 450 ALUM. INSWING 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.

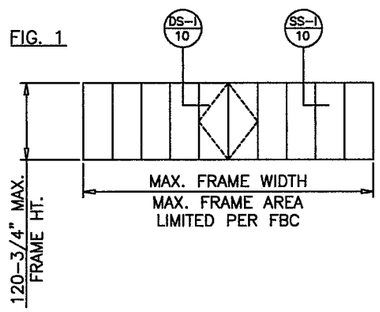
8) EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.
FRAME HEIGHT = PANEL HEIGHT + 1-7/8" (STD. THRESHOLD)
FRAME HEIGHT = PANEL HEIGHT + 1-5/8" (ADA THRESHOLD)
FRAME WIDTH = PANEL WIDTH + 2-13/16"

LEGEND

(H-I / 7) = DOOR DETAIL / SHEET #

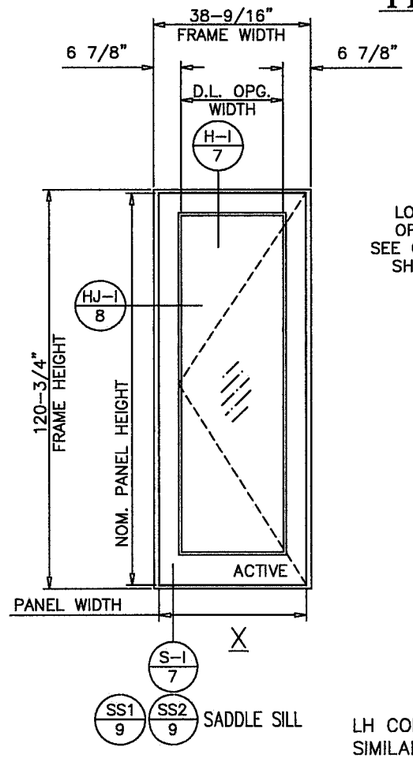
( ) = ITEM PART NUMBER

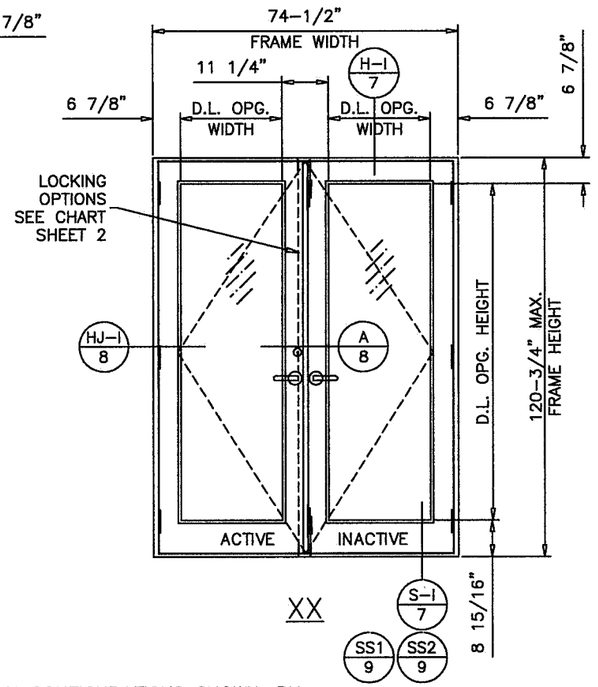
FIG. 1



MULTIPLE SIDELITES W/ DOORS WITHIN TESTED FRAME AREA ARE AVAILABLE (SEE SHEET 11) 125 SQ. FT. TESTED FRAME AREA

TYPICAL ELEVATIONS





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

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. INSWING AND TYPE OF THRESHOLD FROM SHEET 11 AND LOCK OPTIONS FROM SHEET 2.

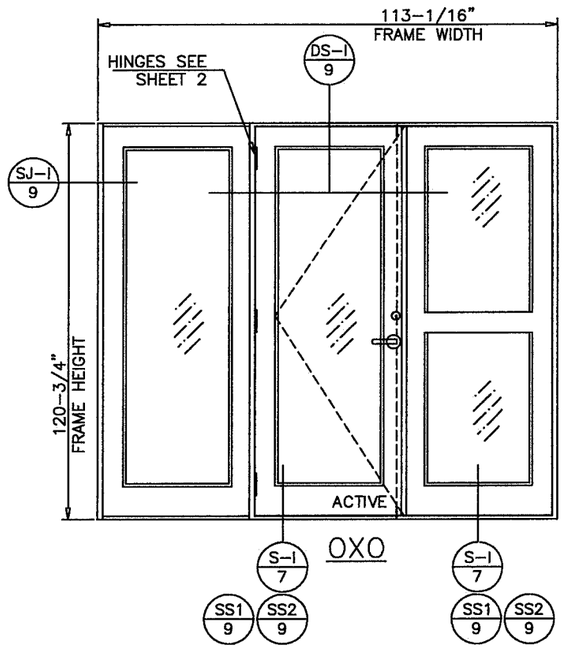
4) CHECK THE ALLOWABLE EXTERIOR AND INTERIOR LOADS FROM APPROPRIATE CHARTS ON SHEETS 2, 10 & 11. THE ALLOWABLE LOADS MUST MEET OR EXCEED THE DESIGN LOADS REQUIREMENTS.

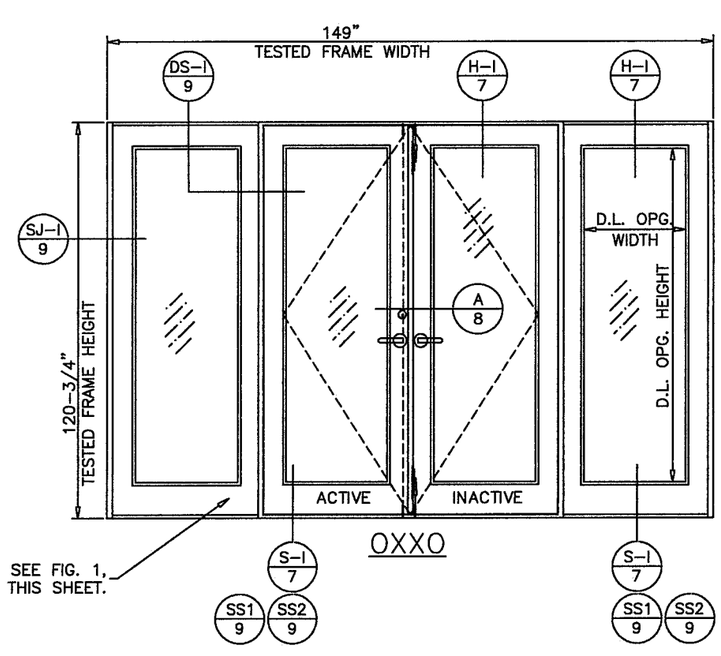
5) SELECT AND CHECK ANCHORS TO MEET LOAD. (SEE SHEETS 12 & 13)

6) FOR MULLED SIDELITE REFER TO MULLION CAPACITY ON SHEET 10.

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 RENEWED
as complying with the Florida Building Code
NOA-No. 21-0917.05
Expiration Date 11/09/2026
By Ishaq I. Chanda
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0619.07
Expiration Date 11/09/2021
By Ishaq I. Chanda
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

Rev.	Date	Drawn By	DWG No.	Sheet
A	06/12/2020	J ROSOWSKI	450FD3-NOA	1 OF 14

Series	Desc.	Scale
FD450 INSWING	GEN. NOTES AND ELEVATIONS	NTS

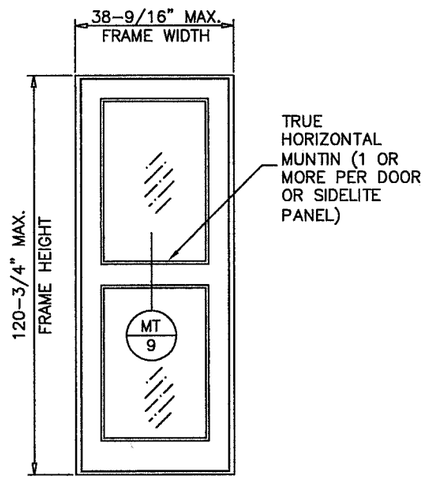
Title: 450 ALUM. FRENCH DOOR - GLAZED & IS (LM)

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

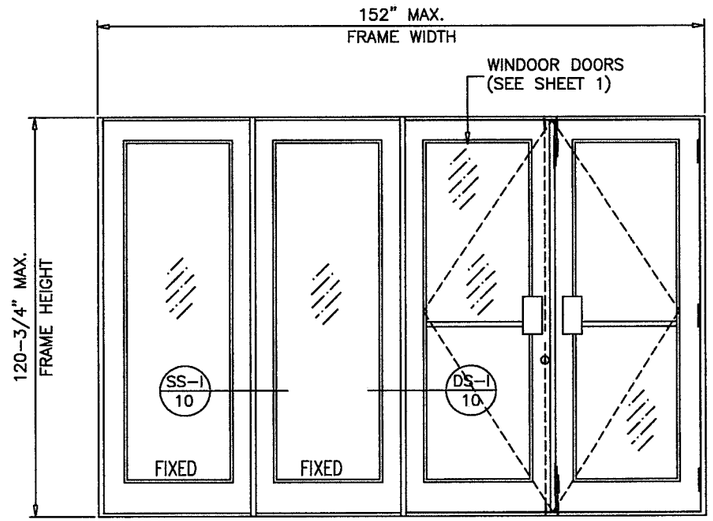
ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
6/12/20

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

HARDWARE DESCRIPTION, TYPICAL ELEVATIONS



X OR O



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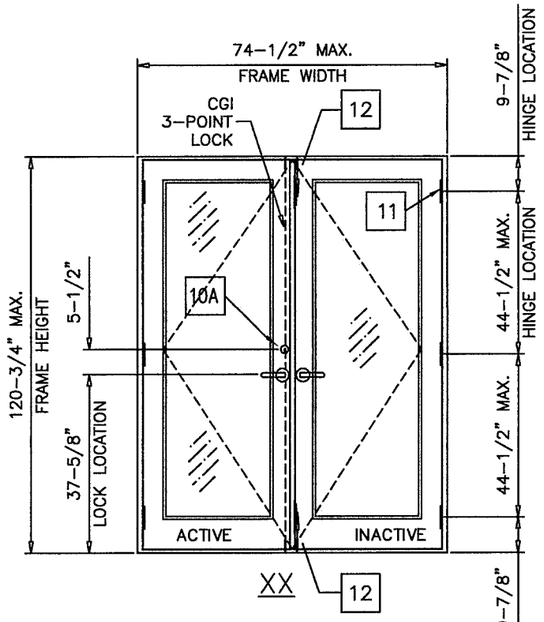
HINGE LOCATIONS		
MAX. FRAME HEIGHT	NO. REQD.	MAX. SPACING
UP TO 90–3/4"	3	35 1/2"
ABOVE 90–3/4" UPTO 120–3/4"	4	44 1/2"

DOORS WITH 3 HINGES LIMITED TO 100 PSF



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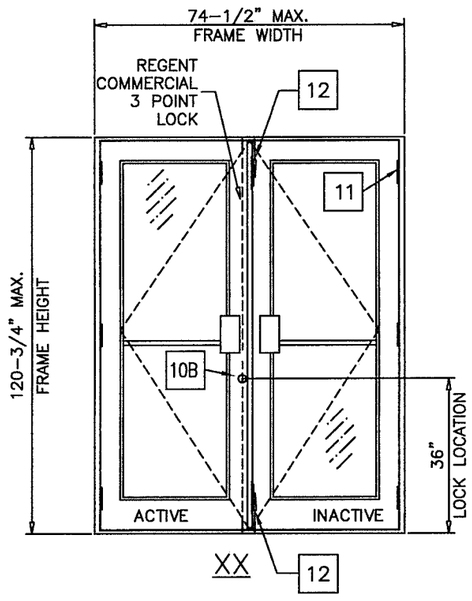
RESIDENTIAL HARDWARE



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COMMERCIAL HARDWARE

LOCK OPTIONS AND CAPACITY

	10A		10AA		10B		10C & 10CC		10 F	
FRAME HEIGHT	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	100.0	110.0
96–3/4"	90.0	90.0	100.0	110.0	100.0	110.0	65.0	65.0	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
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"

LEGEND

(H–I / 7) = DOOR DETAIL / SHEET #

□ = ITEM PART NUMBER

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

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 RENEWED
as complying with the Florida Building Code
NOA–No. 21–0917.05
Expiration Date 11/09/2026
By Ishaq I. Chanda
Miami–Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 20–0619.07
Expiration Date 11/09/2021
By Ishaq 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

Title	Desc.	Series
450 ALUM. FRENCH DOOR - GLAZED & IS (LM)	DESIGN PRESSURES AND ELEVATIONS	FD450 INSWING

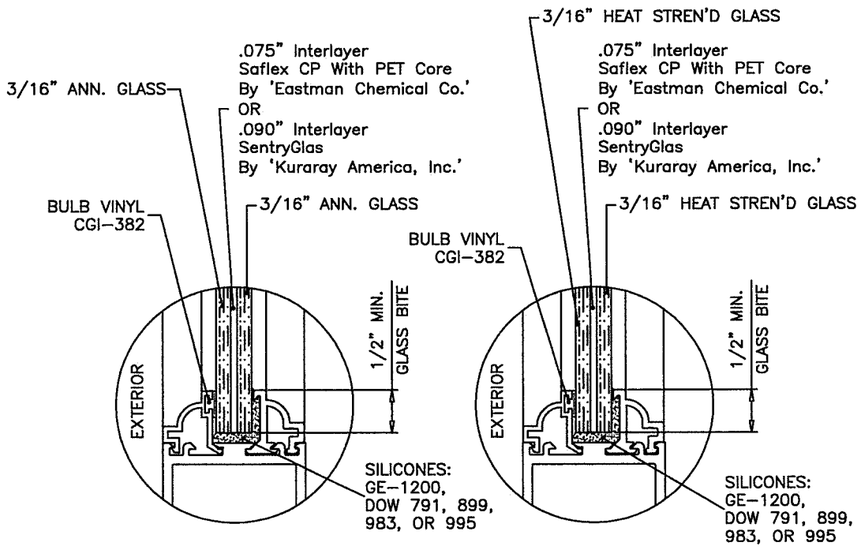
Date	Drawn By	Rev.
06/12/2020	J ROSOWSKI	A

DWG No.	Sheet	Scale
450FD3-NOA	2 OF 14	NTS

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

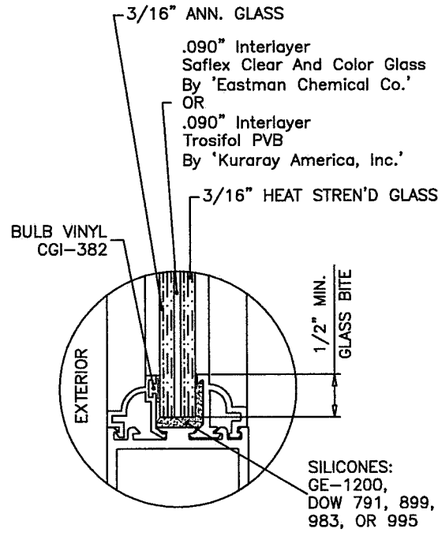
A. LYNN MILLER, P.E.
P.E.# 58705

GLAZING OPTIONS



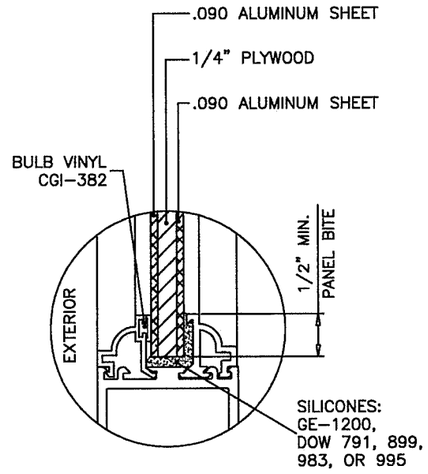
GLASS TYPE 'A'

7/16" OVERALL LAM. GLASS



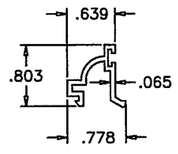
GLASS TYPE 'B'

7/16" OVERALL LAM. GLASS

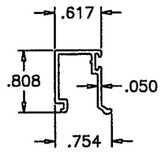


7/16" OVERALL COMPOSITE PANEL

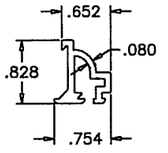
GLAZING STOP OPTIONS



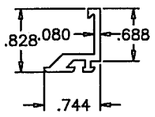
CGI–375



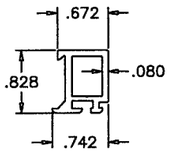
CGI–396



CGI–504

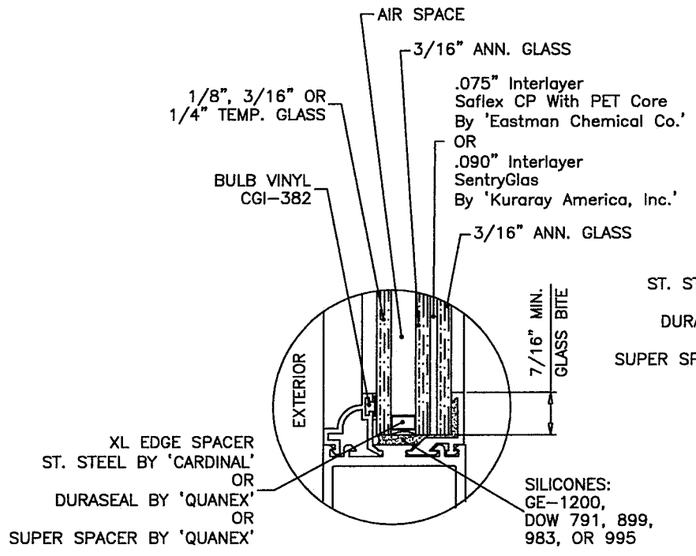


CGI–515



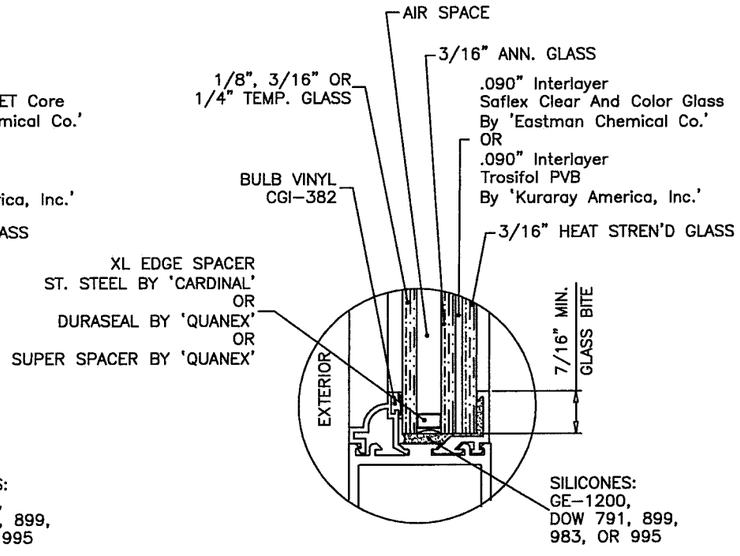
CGI–519

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



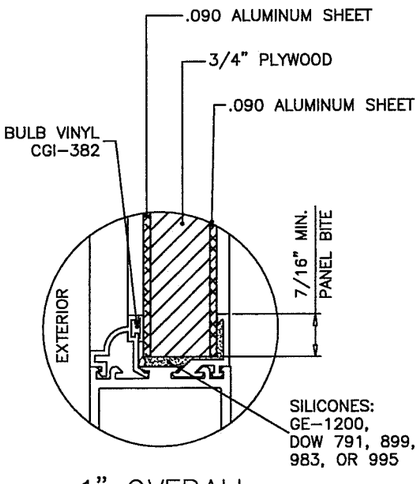
GLASS TYPE 'A1'

1" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'B1'

1" OVERALL INSUL. LAM. GLASS



1" OVERALL COMPOSITE PANEL

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PRODUCT REVISED
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NOA–No. 20-0619.07
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Miami–Dade Product Control

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

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

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

Series	Title	Desc.	Scale	Sheet	DWG No.	Rev.
FD450 INSWING	450 ALUM. FRENCH DOOR - GLAZED & IS (LM)	GLAZING DETAILS	NTS	3 OF 14	450FD3-NOA	A

Drawn By: J ROSOWSKI
Date: 06/12/2020

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

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

BILL OF MATERIALS

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

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

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

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
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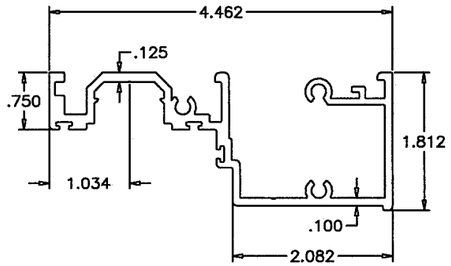
REGISTRATION #29296

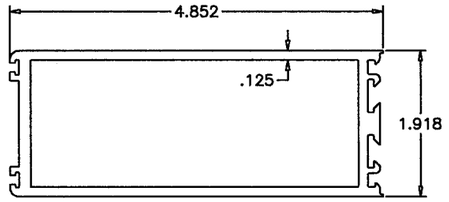
Date 06/12/2020
Drawn By J ROSOWSKI
Rev. A
DWG No. 450FD3-NOA
Sheet 4 OF 14
Scale NTS
Series FD450 INSWING
Desc. BILL OF MATERIALS
Title 450 ALUM. FRENCH DOOR - GLAZED & IS (LM)

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

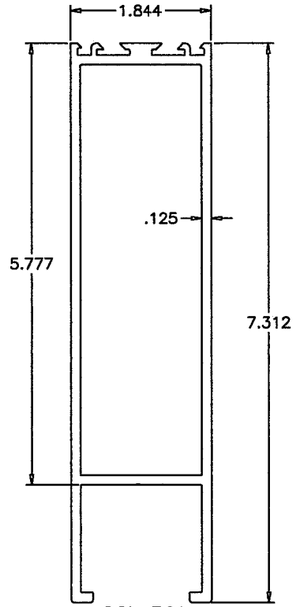
ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
6/12/20
A. LYNN MILLER, P.E.
P.E.# 58705



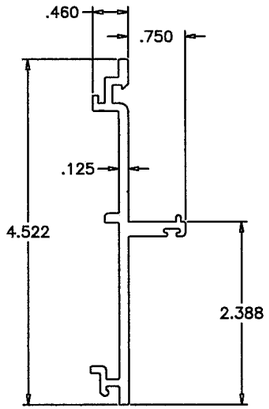
CGI–507
DOOR FRAME HEAD/SILL



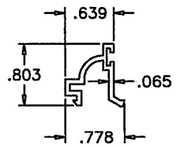
CGI–502
JAMB/LOCK/SIDELITE STILE



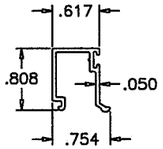
CGI–501
BOTTOM RAIL



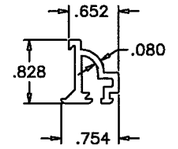
CGI–510
SIDELITE MULLION



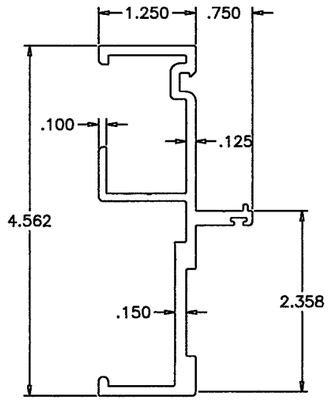
CGI–375



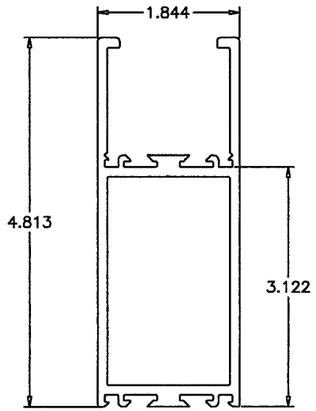
CGI–396



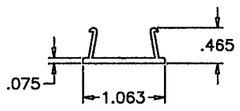
CGI–504



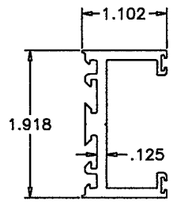
CGI–509
FRAME JAMB/MULLION



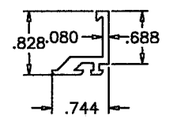
CGI–500A
TOP RAIL



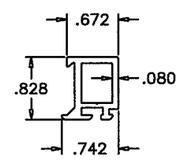
CGI–508
FRAME COVER



CGI–503
NARROW SIDELITE STILE

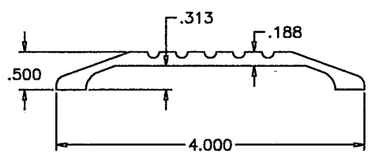


CGI–515

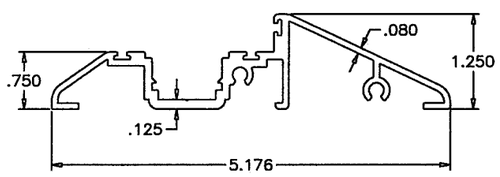


CGI–519

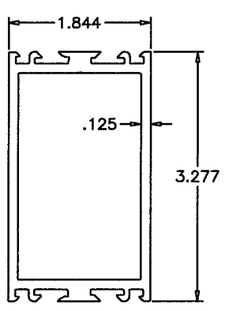
GLAZING STOP OPTIONS



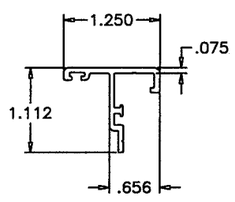
CGI–540
COM. SADDLE/ADA THRESHOLD



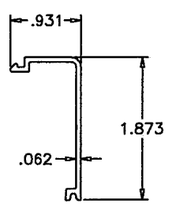
CGI–539
RES. SADDLE THRESHOLDS



CGI–514
HORIZONTAL MUNTIN



CGI–505
ASTRAGAL



CGI–511
JAMB COVER

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Title	Desc.	Series
450 ALUM. FRENCH DOOR - GLAZED & IS (LM)	EXTRUSIONS	FD450 INSWING

Date	Drawn By	Rev.	Sheet	Scale	DWG No.
06/12/2020	J ROSOWSKI	A	5 OF 14	NTS	450FD3-NOA

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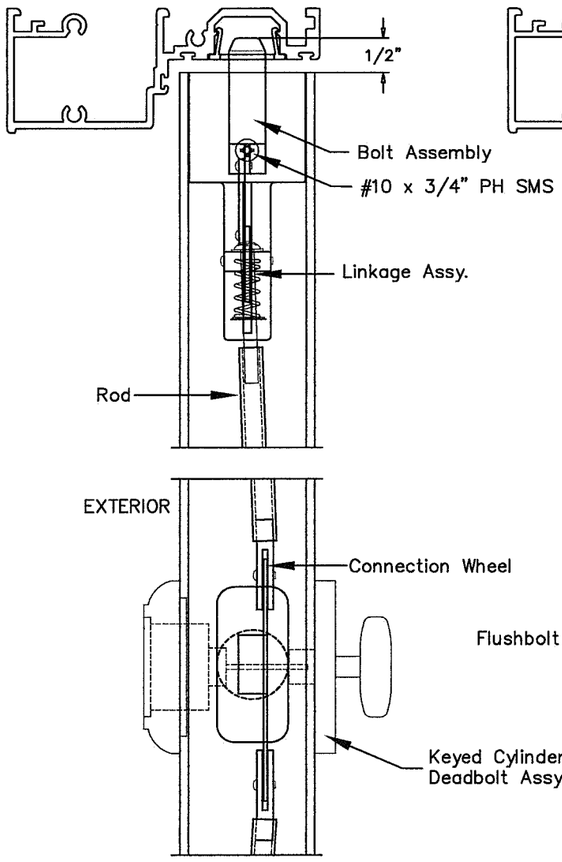
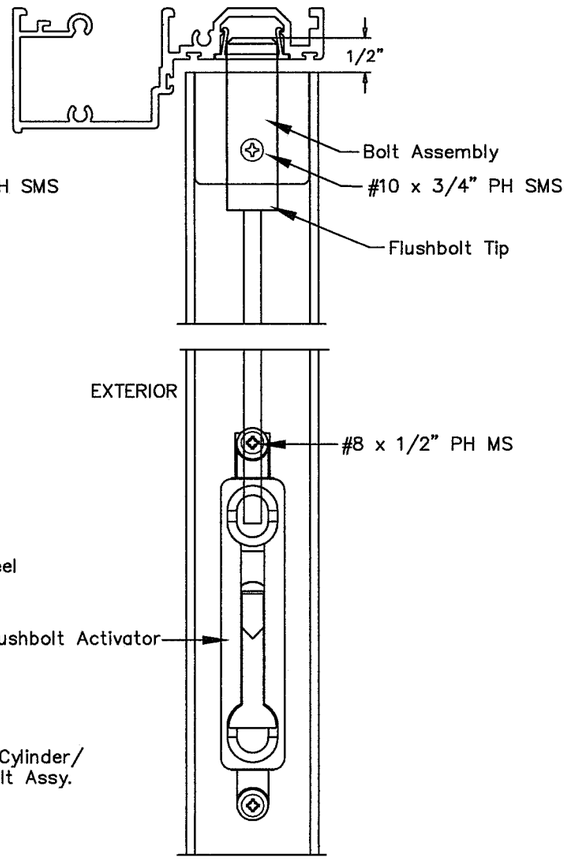
PROFESSIONAL ENGINEER
6/12/20

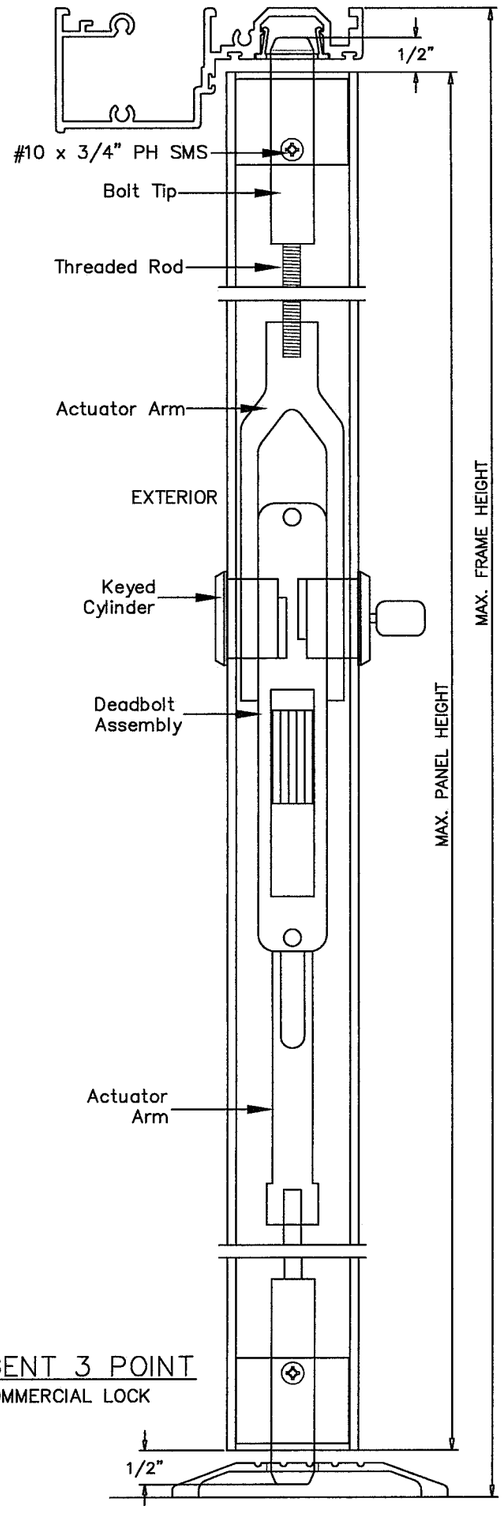
A. LYNN MILLER, P.E.
P.E.# 58705



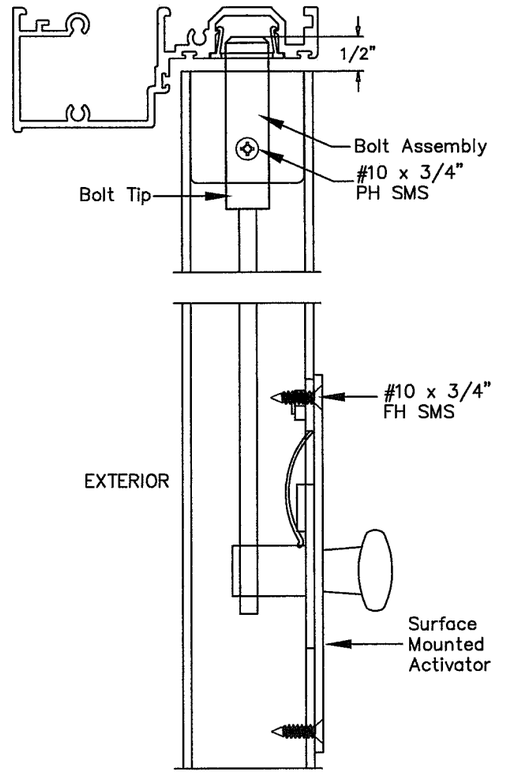
CGI CUSTOM
3–POINT LOCK
TOP SECTION SHOWN
(BOTTOM SIMILAR)



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



REGENT 3 POINT
COMMERCIAL LOCK



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

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Expiration Date 11/09/2021
By Ishaq I. Chanda
Miami–Dade Product Control

Revision:

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

REGISTRATION #29296

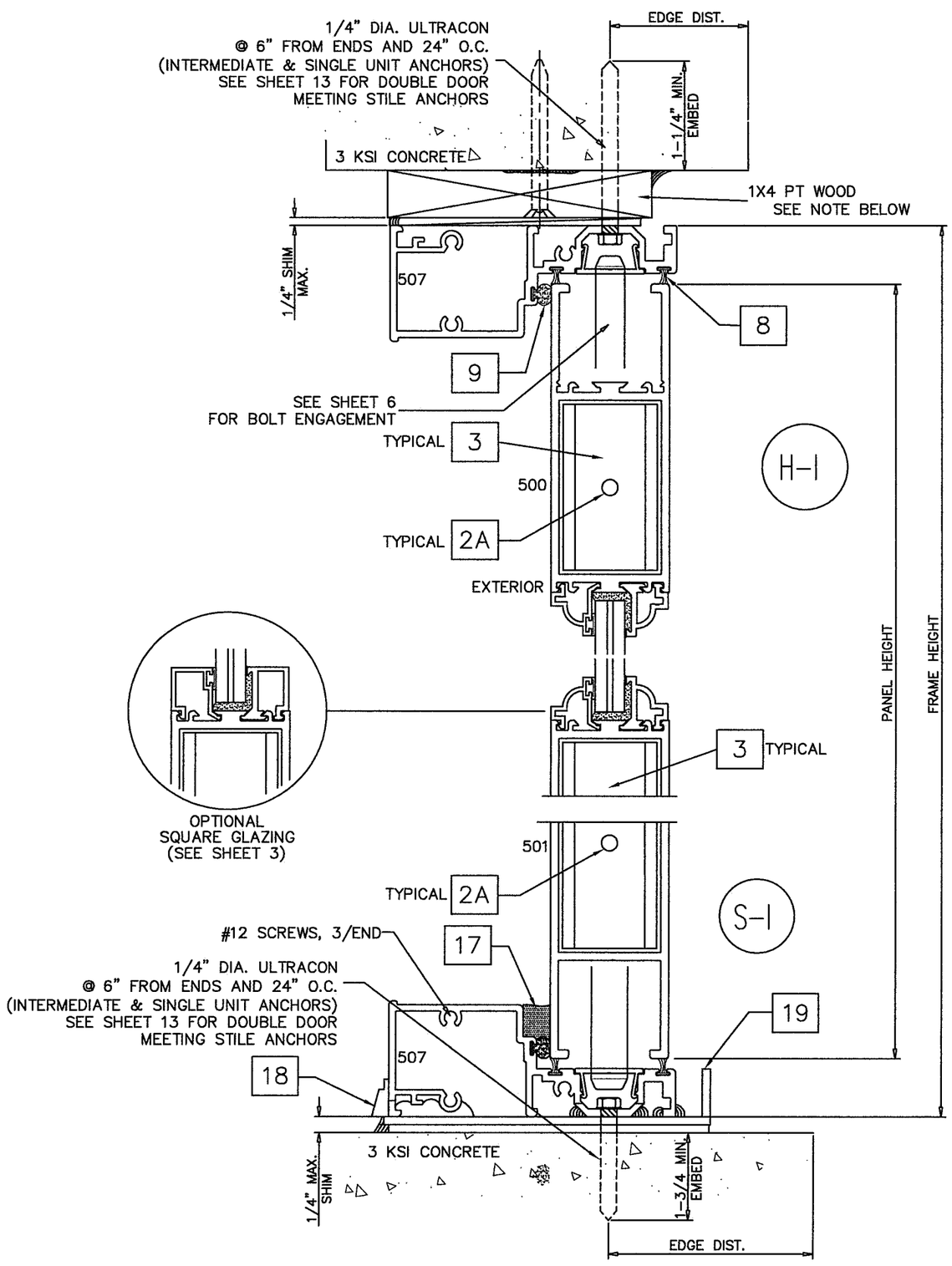
WINDOOR® INCORPORATED
104 TRIPLE DIAMOND BLVD.
N. VENICE, FL 34275
(407) 481-8400

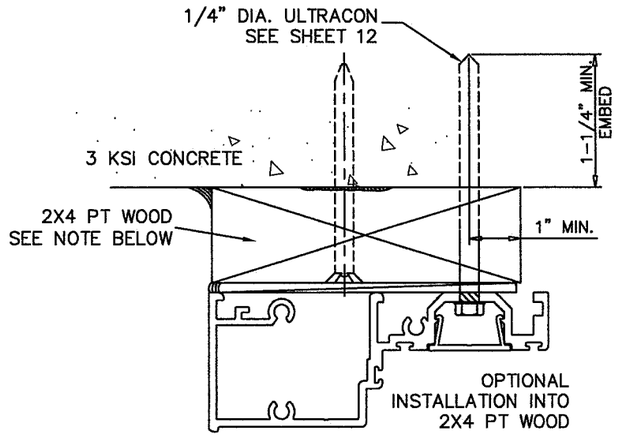
Title	Desc.	Series
450 ALUM. FRENCH DOOR - GLAZED & IS (LM)	HARDWARE DETAILS 1	FD450 INSWING

Date	Drawn By	Rev.	DWG No.	Sheet	Scale
06/12/2020	J ROSOWSKI	A	450FD3-NOA	6 OF 14	NTS

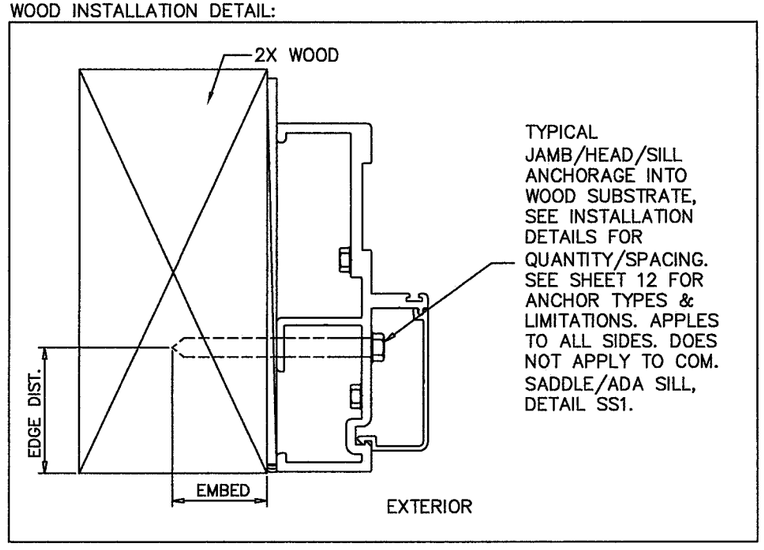
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
6/12/20

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





WOOD INSTALLATION DETAIL:



OPTIONAL INSTALLATION
DIRECTLY INTO 2X WOOD

NOTES:

1) ALL JAMB ANCHOR CONDITIONS SHOWN ON SHEETS 7, 9 AND 10 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 RENEWED
as complying with the Florida Building Code
NOA-No. 21-0917.05
Expiration Date 11/09/2026
By Ishaq I. Chanda
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0619.07
Expiration Date 11/09/2021
By Ishaq I. Chanda
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Revision: ADDED WOOD INSTALLATION DETAIL - JR - 6/11/20

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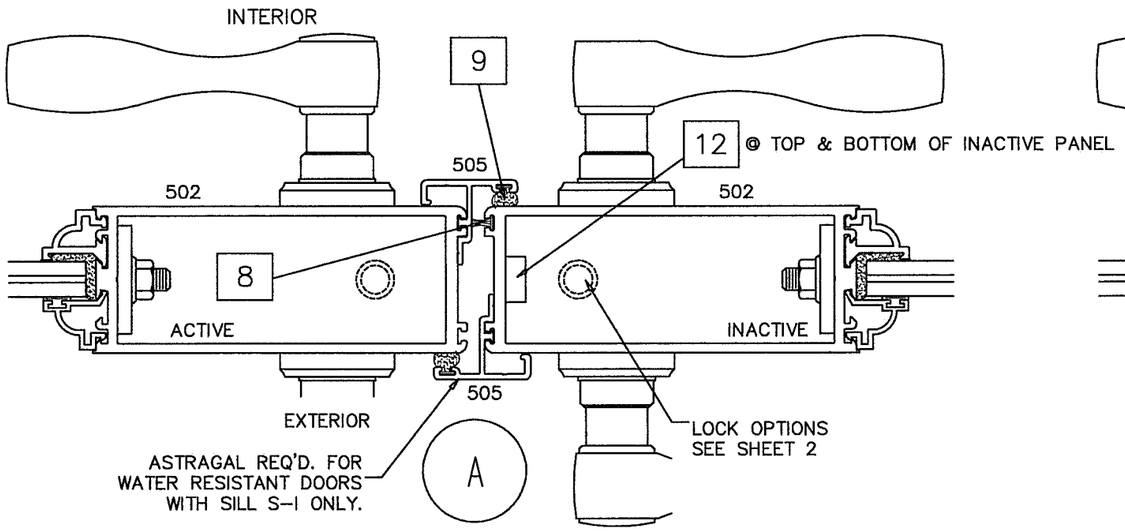
Title	Desc.	Series	Sheet	Scale	DWG No.	Rev.
450 ALUM. FRENCH DOOR - GLAZED & IS (LM)	INSTALLATION DETAILS 1	FD450 INSWING	7 OF 14	NTS	450FD3-NOA	A

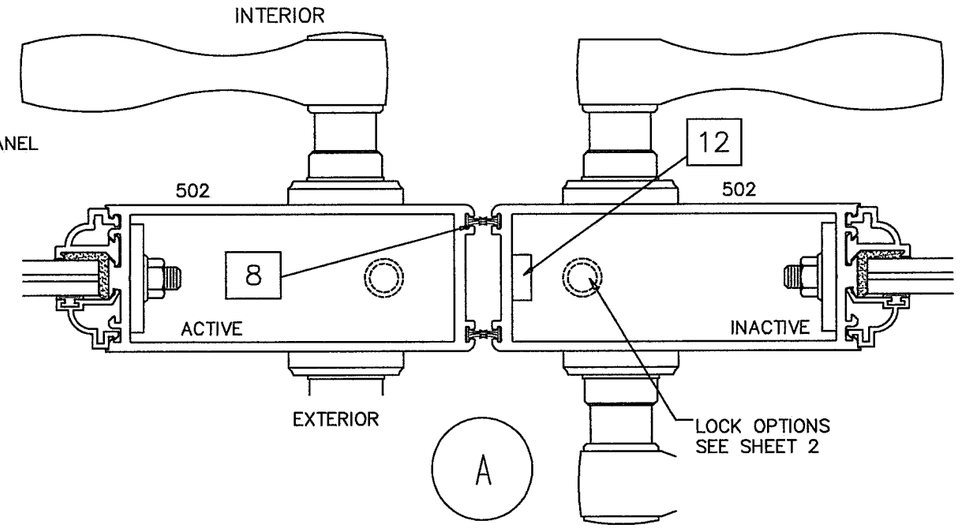
Drawn By: J ROSOWSKI
Date: 06/12/2020

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

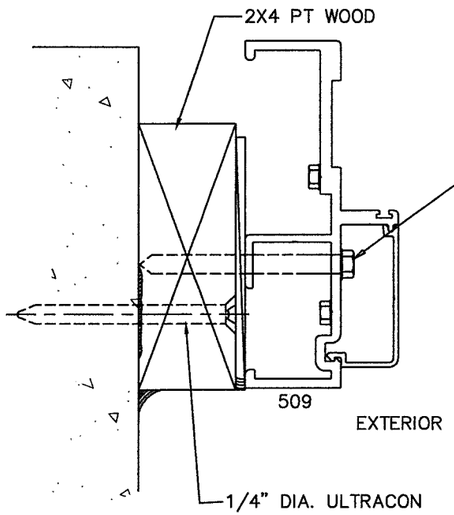
A. LYNN MILLER, P.E.
P.E.# 58705



LOCK STILES WITH WATER RESISTANCE

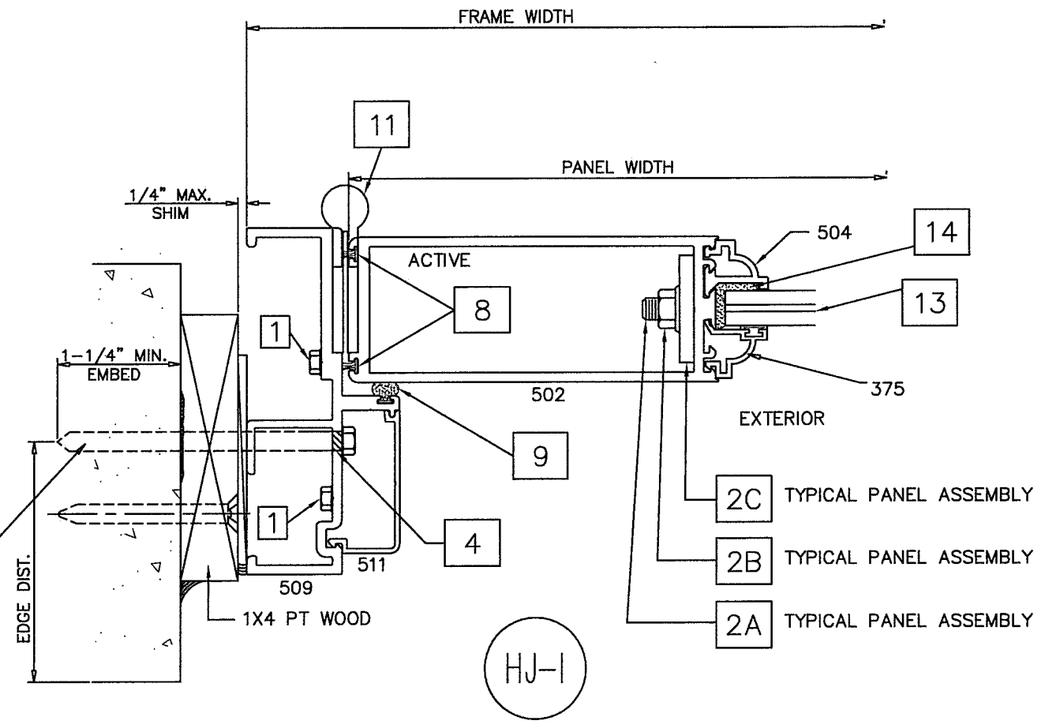


LOCK STILES WITHOUT WATER RESISTANCE



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"

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 UPTO 110 PSF
12" O.C. FOR LOADS ABOVE 110 PSF
(SEE SHEET 12)
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.

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By Ishaq I. Chanda
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Revision:

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1070 TECHNOLOGY DRIVE
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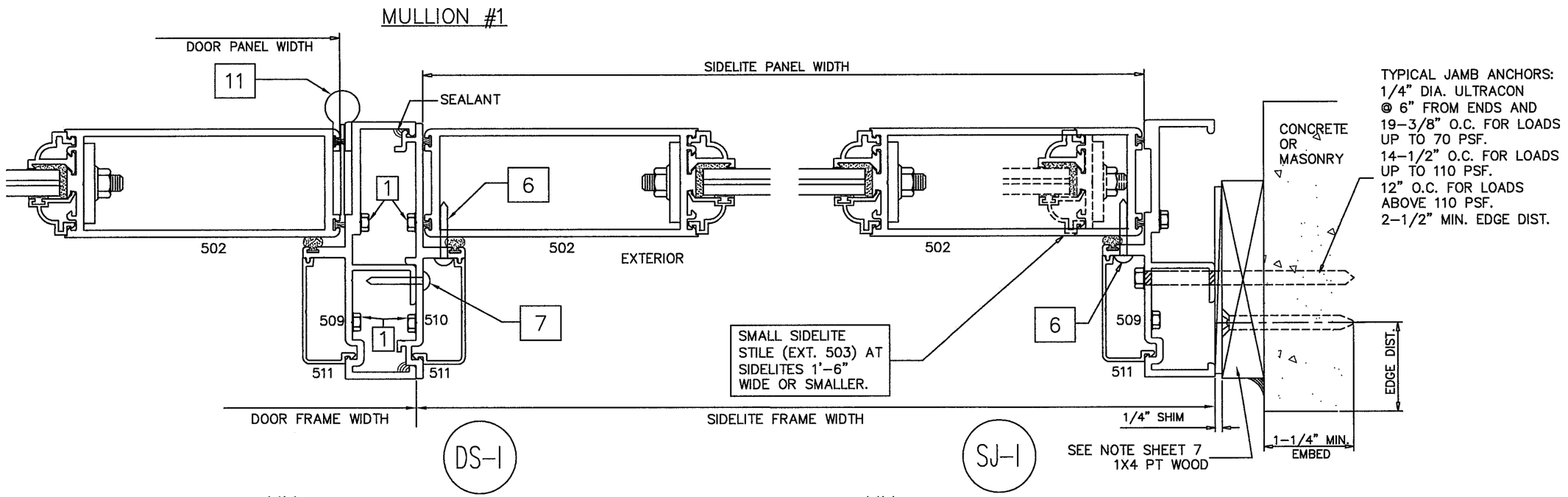
WINDOOR® INCORPORATED
104 TRIPLE DIAMOND BLVD.
N. VENICE, FL 34275
(407) 481-8400

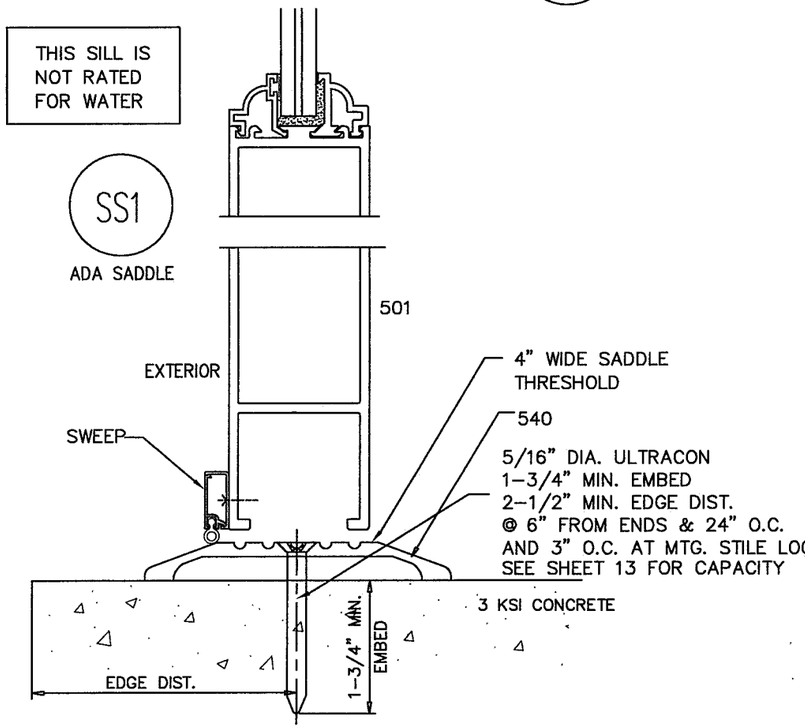
Series	Desc.	Title	Date	Drawn By	Rev.
450	ALUM. FRENCH DOOR - GLAZED & IS (LM)	INSTALLATION DETAILS 2	06/12/2020	J ROSOWSKI	A

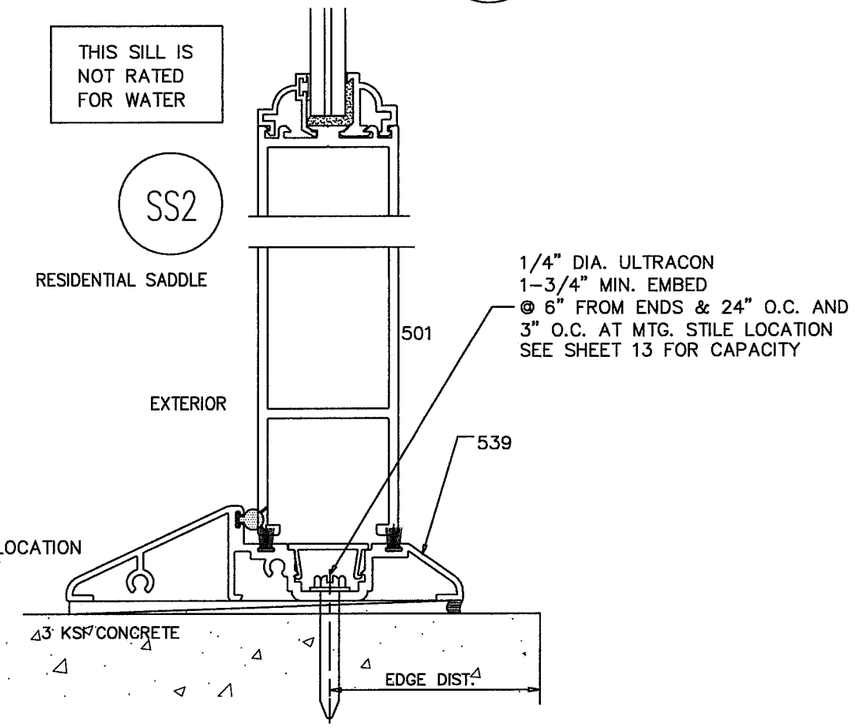
Scale	Sheet	DWG No.
NTS	8 OF 14	450FD3-NOA

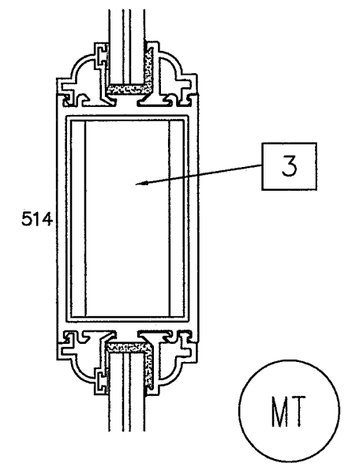
FD450 INSWING

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









REFER TO SHEET 4 OF 14 FOR TYPICAL BILL OF MATERIALS

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Title	Desc.	Series	Scale	Sheet	DWG No.	Rev.
450 ALUM. FRENCH DOOR - GLAZED & IS (LM)	INSTALLATION DETAILS 3	FD450 INSWING	NTS	9 OF 14	450FD3-NOA	A

Drawn By: J ROSOWSKI
Date: 06/12/2020

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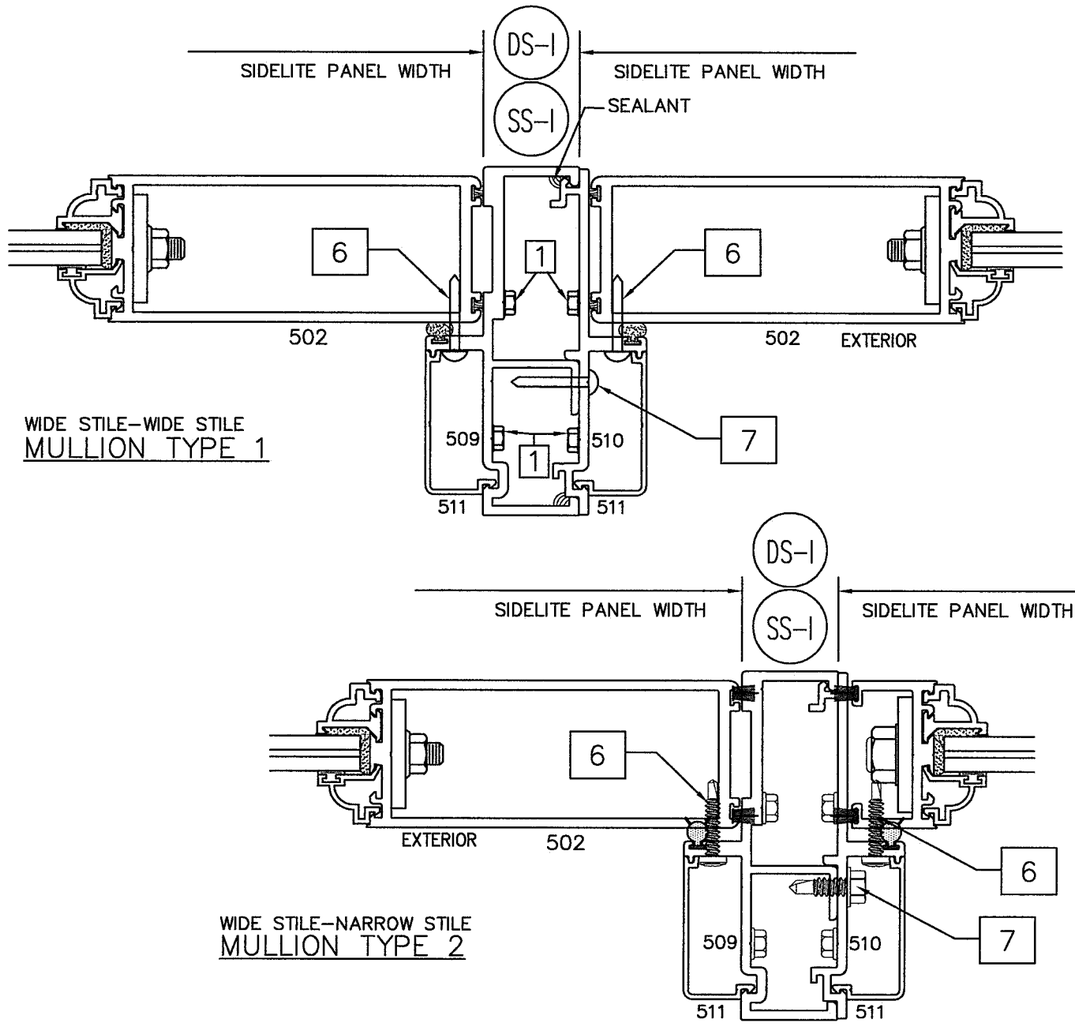
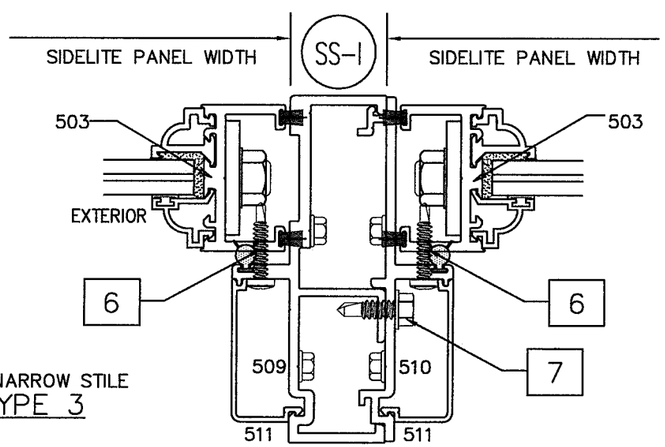


WIDE STILE–WIDE STILE
MULLION TYPE 1

WIDE STILE–NARROW STILE
MULLION TYPE 2



NARROW STILE–NARROW STILE
MULLION TYPE 3

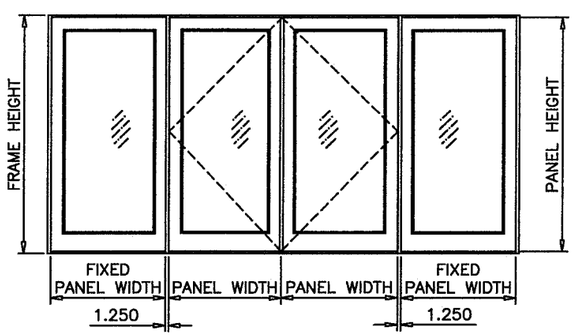
NOTES:
1) LOWER DESIGN LOAD FROM PANEL PERFORMANCE CHART ON SHEET 11 OR MULLION PERFORMANCE CHART ABOVE SHALL CONTROL.

2) REFER TO SHEET 4 OF 14 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	–	–	–	–

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



PRODUCT RENEWED
as complying with the Florida Building Code
NOA–No. 21-0917.05
Expiration Date 11/09/2026
By Ishaq I. Chanda
Miami–Dade Product Control

PRODUCT REVISED
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Revision:

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1070 TECHNOLOGY DRIVE
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WINDOOR® INCORPORATED
104 TRIPLE DIAMOND BLVD.
N. VENICE, FL 34275
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Title	Date	Rev.
450 ALUM. FRENCH DOOR - GLAZED & IS (LM)	06/12/2020	A
Series	Drawn By	DWG No.
MULLION X-SECTION AND DPS	J ROSOWSKI	450FD3-NOA
Desc.	Scale	Sheet
FD450 INSWING	NTS	10 OF 14

ANTHONY LYNN MILLER
LICENSE
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6/12/20

A. LYNN MILLER, P.E.
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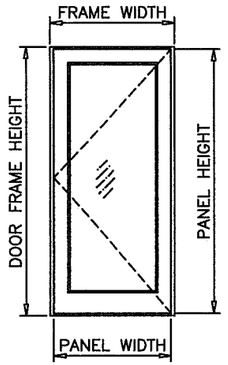
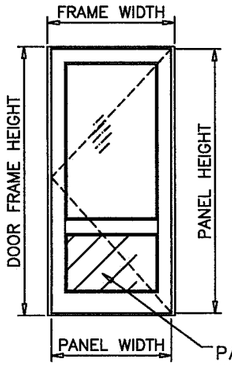
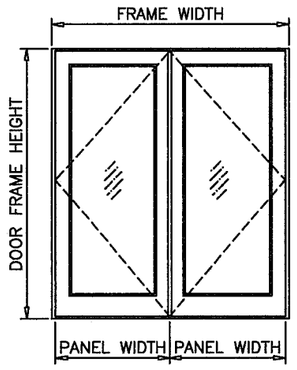




PARTIAL COMPOSITE PANEL OR GLASS APPLICABLE TO DOOR/SIDELITE



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 10 FOR MULLION TYPES AND DESIGN LOAD CAPACITY.

5) SEE CHART ON SHEET 12 FOR MULLION ANCHORS CAPACITY.

6) SEE CHART ON SHEET 13 FOR MTG. STILE ANCHORS AT DOUBLE DOOR.

7) LOWEST VALUE FROM THESE CHARTS WILL APPLY TO ENTIRE ASSEMBLY.

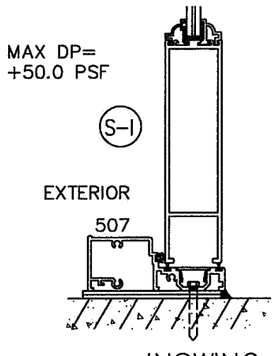
8) GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT.

PANEL PERFORMANCE CHART FOR SINGLE & DOUBLE DOORS & SINGLE SIDELITES
(NARROW STILE SIDELITES LIMITED TO 18" OR LESS)
DESIGN LOAD CAPACITY – PSF

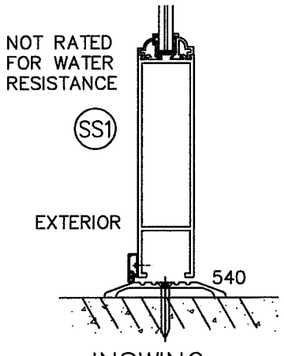
NOMINAL DIMS.			GLASS TYPE 'A' 7/16" COMPOSITE PANELS 1" COMPOSITE PANELS		GLASS TYPE 'A1'		GLASS TYPES 'B' & 'B1'	
FRAME WIDTH (X)	FRAME WIDTH (XX)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
26-9/16"	50-1/2"	82-3/4"	100.0	110.0	70.0	70.0	90.0	90.0
32-9/16"	62-1/2"		100.0	110.0	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 *	–	–
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 *	–	–
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 *	–	–

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

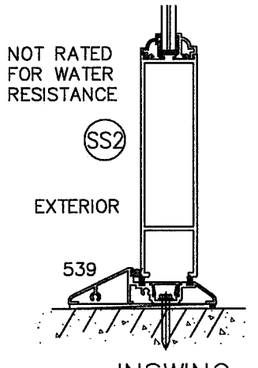
* GLASS LIMITED TO 8/0 DAYLITE OPENING. PANEL SIZES ABOVE 8/0 REQUIRE TRUE MUNTIN.



INSWING



INSWING
(COM. SADDLE)



INSWING
(RES. SADDLE)

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REGISTRATION #29296

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

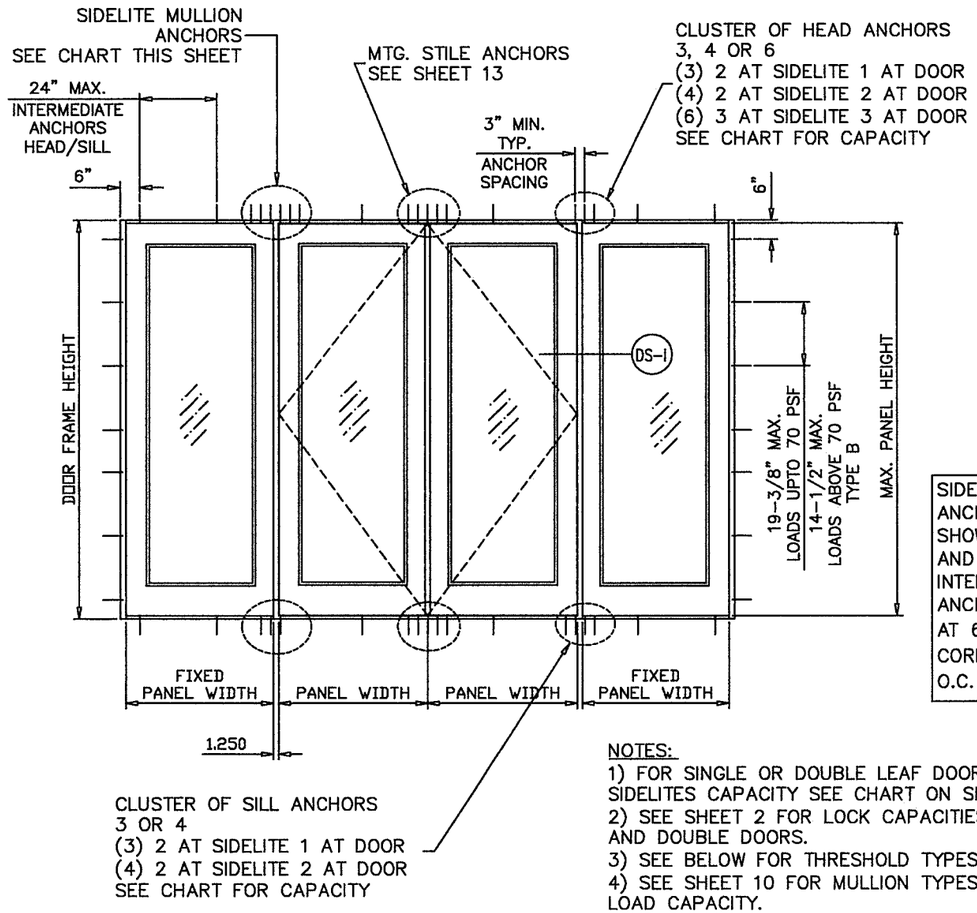
Title	Desc.	Series
450 ALUM. FRENCH DOOR - GLAZED & IS (LM)	PANEL DP	FD450 INSWING

Date	Drawn By	DWG No.	Rev.
06/12/2020	J ROSOWSKI	450FD3-NOA	A

Scale: NTS
Sheet: 11 OF 14

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

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



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 11.
2) SEE SHEET 2 FOR LOCK CAPACITIES FOR SINGLE AND DOUBLE DOORS.
3) SEE BELOW FOR THRESHOLD TYPES.
4) SEE SHEET 10 FOR MULLION TYPES AND DESIGN LOAD CAPACITY.
5) SEE CHART ON THIS SHEET FOR MULLION ANCHORS CAPACITY.
6) SEE CHART ON SHEET 13 FOR MTG. STILE ANCHORS AT DOUBLE DOOR.
7) LOWEST VALUE FROM THESE CHARTS WILL APPLY TO ENTIRE ASSEMBLY.

MULLION ANCHORS AT SIDELITES

NOMINAL DIMS.		DESIGN LOAD CAPACTY–PSF						
		TYPE 'B' OR 'B+' AT HEAD			TYPE 'C' AT HEAD TYPE 'C' AT S–I & SS2 SILL		TYPE 'C' AT HEAD TYPE 'D1' AT SS1 SILL OR TYPE 'D2' AT S–I & SS2 SILL	
WIDTH (W)	FRAME HEIGHT	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
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
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
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

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

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.

AT HEAD OR JAMBS

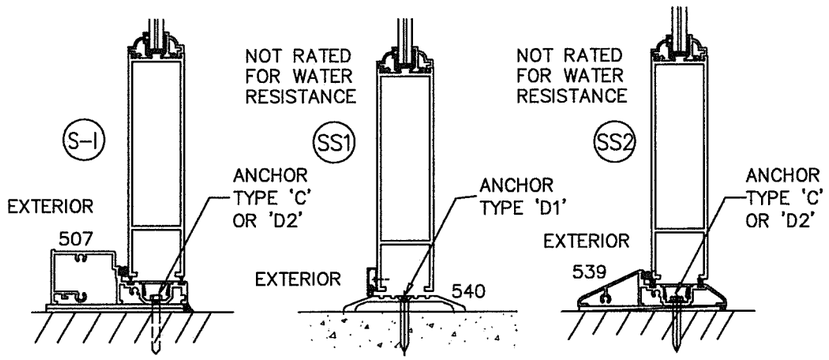
TYPE 'C'– 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
1–3/4" MIN. EMBED INTO CONC.
EDGE DISTANCES
INTO CONCRETE = 2–1/2" MIN.
— AT HEAD OR SILL

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)
DIRECTLY INTO CONCRETE
1–3/4" MIN. EMBED INTO CONC.
EDGE DISTANCES
INTO CONCRETE = 3–1/8" MIN.
— AT ADA SILL DETAIL SS1 PART #540

TYPE 'D2'– #14 SMS (GRADE 5 CRS)
INTO WOOD STRUCTURES
WITH 1–3/8" MIN. PENETRATION INTO WOOD
EDGE DISTANCES
INTO WOOD = 1" MIN.
— AT SILL DETAIL S–1, PART #507 OR DETAIL SS2, PART #539

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.

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



PRODUCT RENEWED
as complying with the Florida Building Code
NOA–No. 21–0917.05
Expiration Date 11/09/2026
By Ishaq I. Chanda
Miami–Dade Product Control

PRODUCT REVISED
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NOA–No. 20–0619.07
Expiration Date 11/09/2021
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Miami–Dade Product Control

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

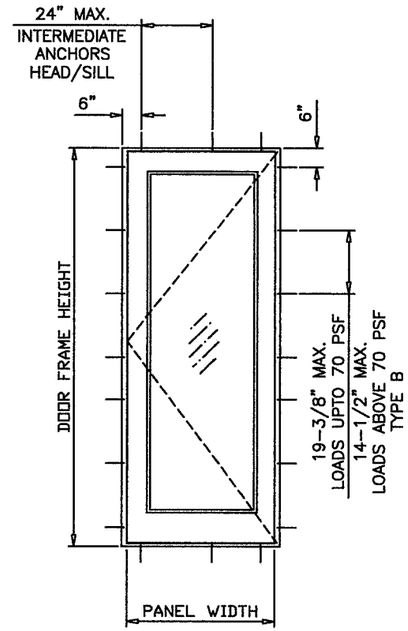
PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

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

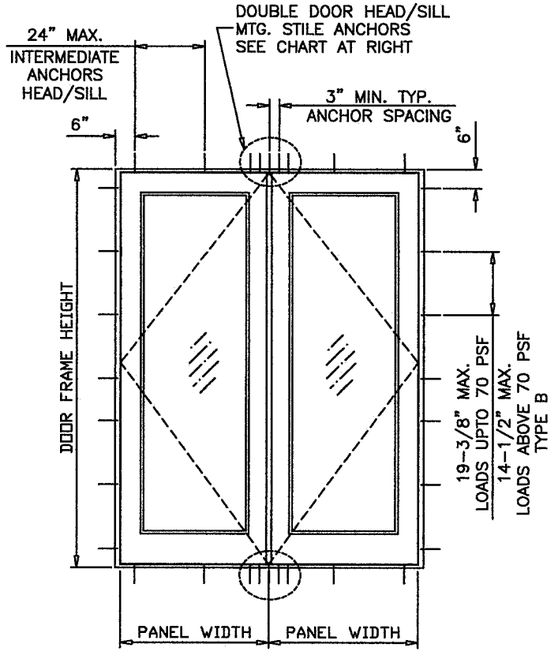
Series	Desc.	Title
FD450 INSWING	ANCHOR DP	450 ALUM. FRENCH DOOR - GLAZED & IS (LM)

Rev.	Date	Drawn By	DWG No.	Sheet	Scale
A	06/12/2020	J ROSOWSKI	450FD3-NOA	12 OF 14	NTS

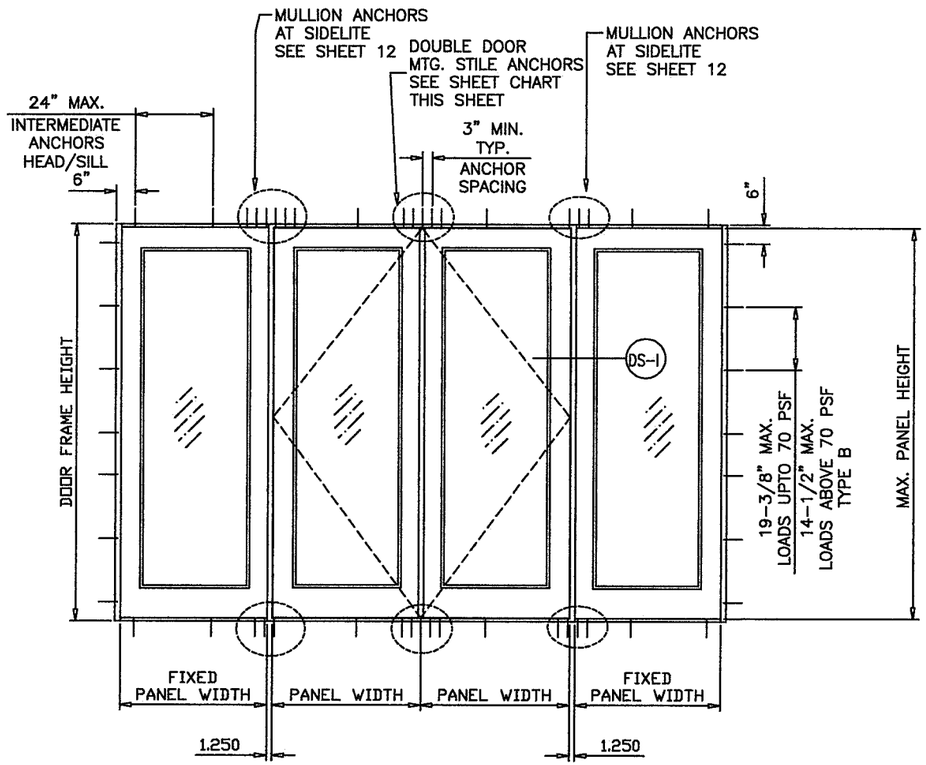
ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
9/6/12/20
A. LYNN MILLER, P.E.
P.E.# 58705



SINGLE DOOR OR SIDELITE



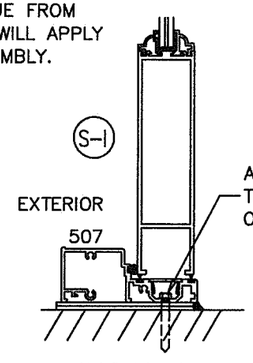
DOUBLE DOOR



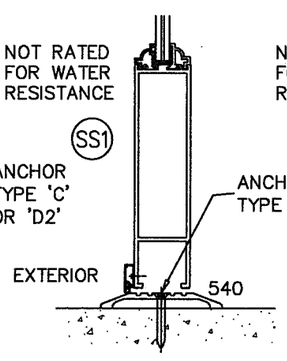
MTG. STILE ANCHORS AT DOUBLE DOORS								
NOMINAL DIMS.		DESIGN LOAD CAPACTY–PSF						
		TYPE 'B' OR 'B+' AT HEAD			TYPE 'C' AT HEAD TYPE 'C' AT S–I & SS2 SILL		TYPE 'C' AT HEAD TYPE 'D1' AT SS1 SILL OR TYPE 'D2' AT S–I & SS2 SILL	
FRAME WIDTH (XX)	FRAME HEIGHT	CLUSTER OF 3 ANCHORS	CLUSTER OF 4 ANCHORS	CLUSTER OF 5 ANCHORS	CLUSTER OF 3 ANCHORS	CLUSTER OF 4 ANCHORS	CLUSTER OF 3 ANCHORS	CLUSTER OF 4 ANCHORS
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 12 FOR ANCHORS DESCRIPTION AND SILL ANCHOR OPTIONS.
2) FOR SINGLE OR DOUBLE LEAF DOORS, SINGLE SIDELITES AND THRESHOLD CAPACITY SEE CHART ON SHEET 11.
3) SEE SHEET 2 FOR LOCK CAPACITIES FOR SINGLE AND DOUBLE DOORS.
4) SEE SHEET 10 FOR MULLION TYPES AND DESIGN LOAD CAPACITY.
5) SEE CHART ON SHEET 12 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.

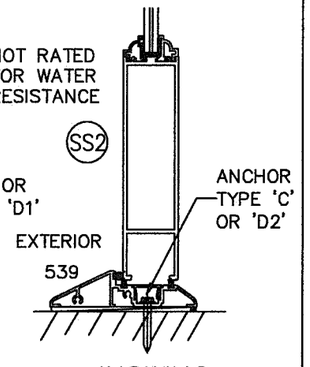
MEETING STILE ANCHORS AS SHOWN IN DETAILS AND CHARTS INTERMEDIATE ANCHORS TO BE AT 6" FROM CORNERS AND 24" O.C. AT HEAD/SILL.



INSWING



INSWING
(ADA/COM. SADDLE)



INSWING
(RES. SADDLE)

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Expiration Date 11/09/2026
By Ishaq I. Chanda
Miami–Dade Product Control

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Miami–Dade Product Control

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

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

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

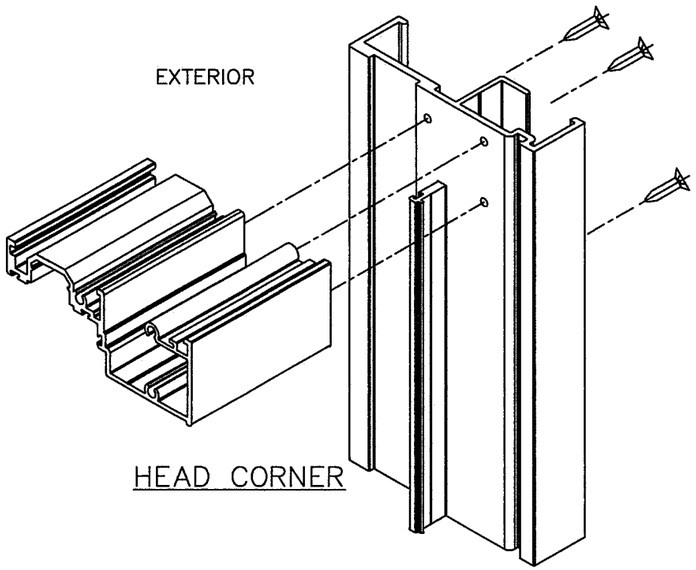
Title	Desc.	Series
450 ALUM. FRENCH DOOR - GLAZED & IS (LM)	ANCHOR DP	FD450 INSWING

Date	Drawn By	DWG No.	Rev.
06/12/2020	J ROSOWSKI	450FD3-NOA	A

Sheet 13 OF 14 | Scale NTS

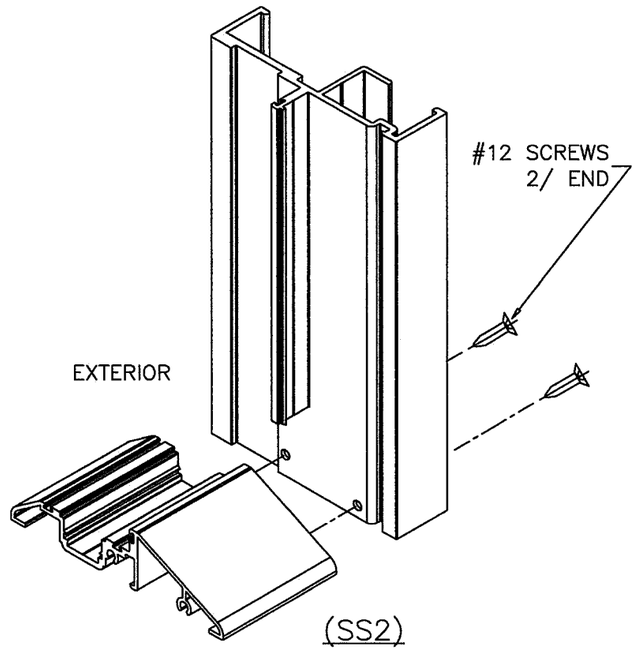
ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
6/12/20
A. LYNN MILLER, P.E.
P.E.# 58705

CORNER DETAILS

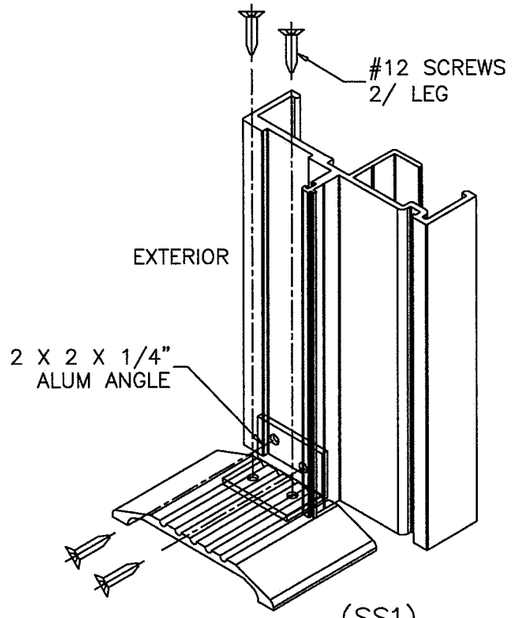


HEAD CORNER

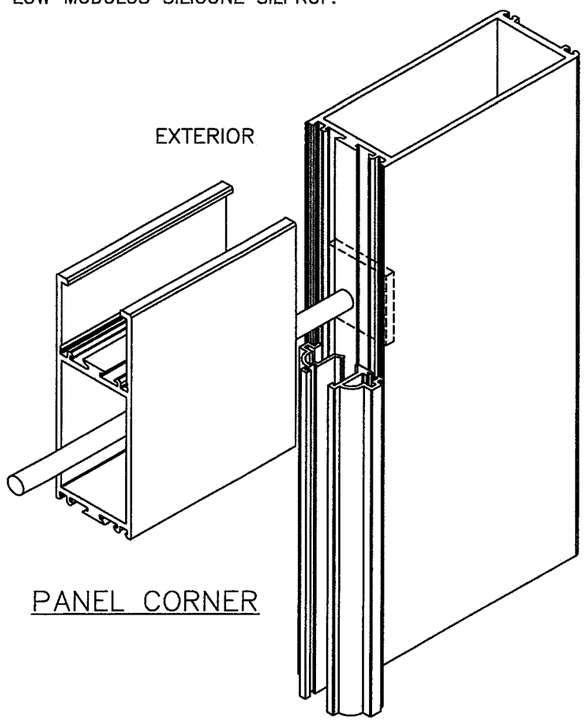
CORNERS TO BE SEALED WITH
LOW MODULUS SILICONE SILPRUF.



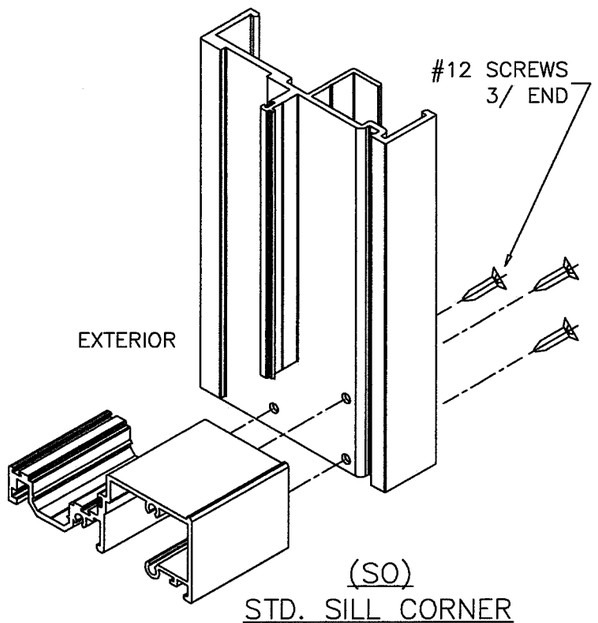
(SS2)
RESIDENTIAL SADDLE SILL



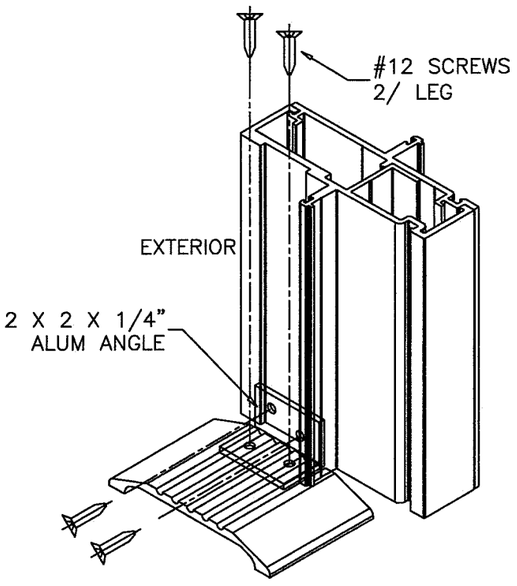
(SS1)
ADA SILL CORNER



PANEL CORNER



(SO)
STD. SILL CORNER



ADA SILL @ MULLION

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Miami-Dade Product Control

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Revision:

PREPARED BY A. LYNN MILLER
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REGISTRATION #29296

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

Title	Desc.	Series
450 ALUM. FRENCH DOOR - GLAZED & IS (LM)	CORNER DETAILS	FD450 INSWING

Date	Drawn By	DWG No.	Rev.
06/12/2020	J ROSOWSKI	450FD3-NOA	A

Scale	Sheet
NTS	14 OF 14

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

A. LYNN MILLER, P.E.
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