

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)

BOARD AND CODE ADMINISTRATION DIVISION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

PRODUCT CONTROL SECTION

www.miamidade.gov/economy

MIAMI-DADE COUNTY

NOTICE OF ACCEPTANCE (NOA)

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 Inswing Opaque Doors w/wo Sidelites - Impact

APPROVAL DOCUMENT: Drawing No. 450FD4-NOA Rev A (former 18-108D), titled "Series 450 Inswing Doors & Sidelites", sheets 1 through 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 Revision stamp with the Notice of Acceptance number and expiration date b the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Limitations:

- Lock <u>10D</u> or <u>10E</u> is limited to max 38-9/16 W x 94-7/8 H door. 1.
- For mulled units lower Design pressure of doors or mullion shall control for entire assembly. 2.
- Sills (threshold) types SS-1 & SS-2 are not rated for water infiltration. See thresholds (sills). 3.
- Narrow stile sidelites are limited to 18" or less.
- 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 # 18-0926.07 (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.



Ishay 1. Chande

NOA No. 20-0619.09 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.**W12-23 Rev B**, 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 AUG 27, 2015, 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 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.
- G. OTHER
 - 1. This NOA revises # 14-1103.06, 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.**W12-23 Rev B**, 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 AUG 27, 2015, signed and sealed by Javad Ahmad, P.E.
- B. TESTS (Submitted under files #12-0706.01)
 - 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 & 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.

Ishay 1. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 20-0619.09
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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 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.

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

- 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)

B. QUALITY ASSURANCE

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

C. MATERIAL CERTIFICATIONS

1. None

D. STATEMENTS

- 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 # 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, P.E.
Product Control Examiner
NOA No 20-0619.09
Expiration Date: October 25, 2022
Approval Date: November 19, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted under previous approval.

A. DRAWINGS

1. Drawing No.18-108D, titled "Series 450 Inswing Doors & Sidelites", sheets 1, 1.1, 1.2, 2, 2.1, 2.2, 3, 3.1, 4, 5, 6, 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 (Submitted under files #14-1103.08)

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 # 17-1011.13(PLA), expiring on November 09, 2021.
- 2. Private Label Agreement (PLA) between CGI Windows and Doors, Inc. and Windoor Inc., signed by Dean M. Ruark, P.E., Vice President on behalf of both companies.
- 3. Reference CGI NOA # 17-1011.13 (#14-1103.06), expiring 11/09/21.

4. New Evidence submitted

A. DRAWINGS

1. Drawing No. **450FD4-NOA** Rev **A** (former **18-108D**), titled "Series 450 Inswing Doors & Sidelites", sheets 1 through 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 Haring Pallar (unit 14)

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Ishaq I. Chanda, P.E.
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WinDoor, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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. 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 18-0926.07 (PLA), updates to FBC 2020, expiring 10/25/22.
- 2. Additional associated reference file #20-0610.10 (LMI).
- 3. RER Test proposals #19-1155 dated 01/10/20 approved by Ishaq I. Chanda, P.E.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 20-0619.09

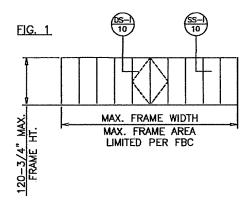
Expiration Date: October 25, 2022 Approval Date: November 19, 2020

SERIES 450 ALUM. INSWING 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.É. 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.

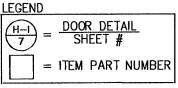
FT. TESTED FRAME AREA

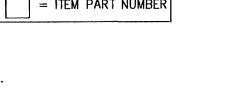
8) EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL. FRAME HEIGHT = PANEL HEIGHT + 1-7/8" (STD. THRESHOLD) FRAME HEIGHT = PANEL HEIGHT + 1-5/8" (ADA THRESHOLD) FRAME WIDTH = PANEL WIDTH + 2-13/16"

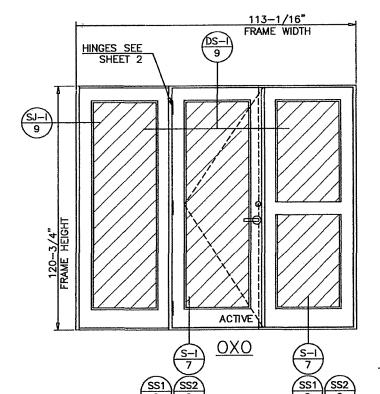


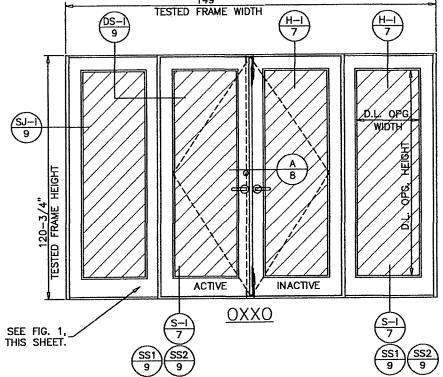
MULTIPLE SIDELITES W/ DOORS WITHIN TESTED FRAME AREA ARE AVAILABLE (SEE SHEET 11) 125 SQ.

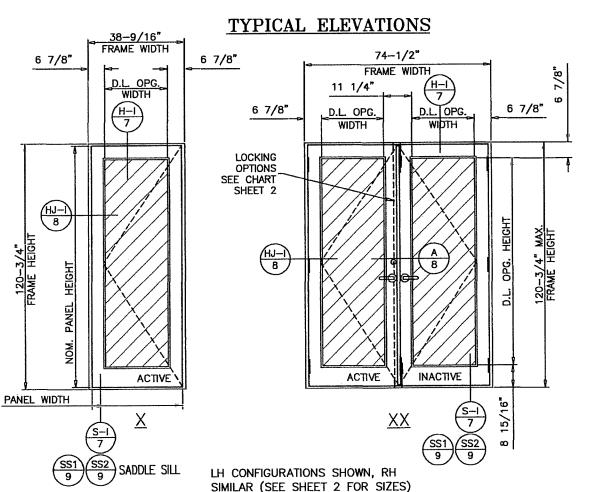








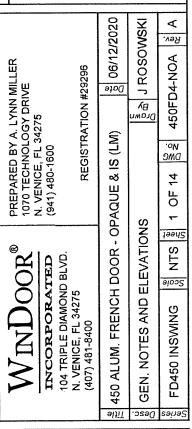


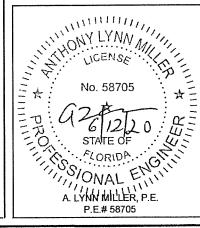


PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0619.09 Expiration Date 10/25/2022

Ishay 1. Chanle Miami-Dade Product Control

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

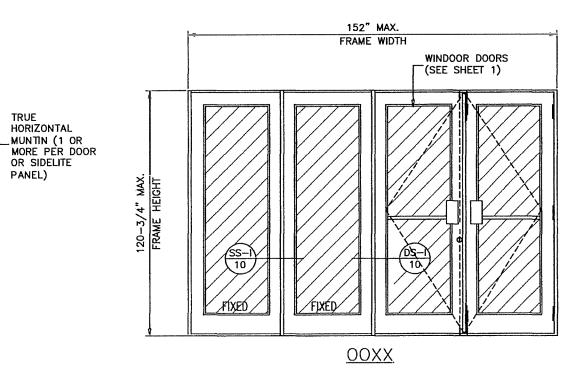




STEPS TO USE CHARTS:

- 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.

HARDWARE DESCRIPTION, TYPICAL ELEVATIONS



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

DOORS WITH 3 HINGES LIMITED TO 100 PSF

10B

110.0

110.0

110.0

70.0

FRAME HEIGHT EXT.(+) INT.(-) EXT.(+) INT.(-) EXT.(+) INT.(-) EXT.(+) INT.(-) EXT.(+) INT.(-)

110.0

110.0

110.0

70.0

100.0

100.0

100.0

70.0

LOCK OPTIONS AND CAPACITY

90.0

90.0

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

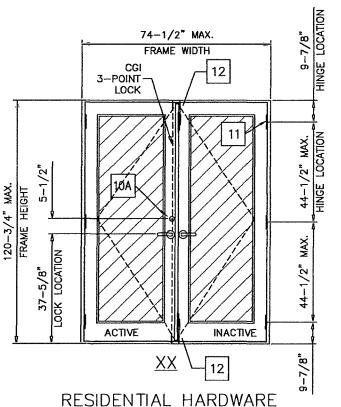
10AA

100.0

100.0

100.0

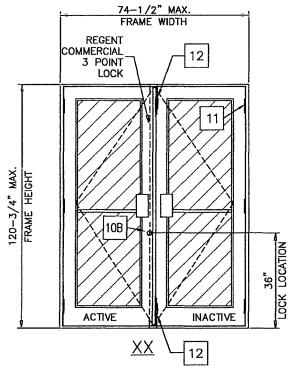
70.0



38-9/16" MAX.

FRAME WIDTH

X OR O



1-	
<u> </u>	
36" LOCK LOCATION	
80	
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ΙŌ	
1	

LEGEND	
$\frac{H-I}{7} =$	DOOR DETAIL SHEET #
=	ITEM PART NUMBER

84-3/4"

96-3/4"

108-3/4"

120-3/4"

90.0

90.0

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"

10C & 10CC

65.0

65.0

65.0

65.0

-

10 F

100.0 110.0

90.0 90.0

70.0

90.0

90.0

70.0

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

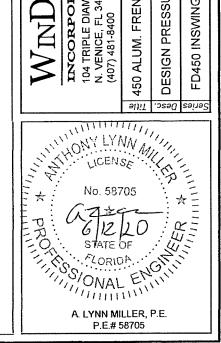
PRODUCT REVISED as complying with the Florida Building Code NOA–No. 20-0619.09

Expiration Date 10/25/2022

Ishay 1. Chands Miami-Dade Product Control

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Revision:				
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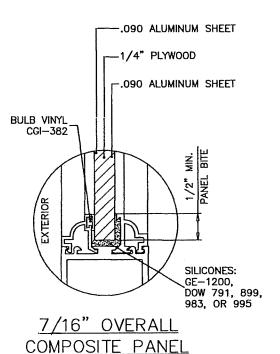
KED BY A. LYNN MILLEK ECHNOLOGY DRIVE ICE, FL 34275 30-1600 REGISTRATION #29296	(a) 06/12/2020	a J ROSOWSKI	
1070 TE (941) 48	OPAQUE & IS (LI	AND ELEVATIONS	
WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. N. VENICE, FL 34275 (407) 481-8400	450 ALUM. FRENCH DOOR - OPAQUE & IS (LM)	DESIGN PRESSURES AND ELEVATIONS	

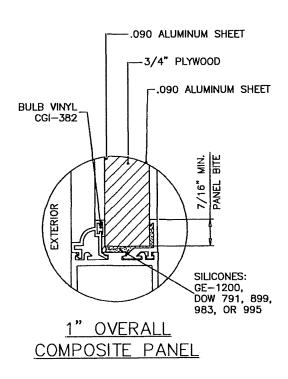


LH CONFIGURATIONS SHOWN, RH SIMILAR (SEE SHEET 2 FOR SIZES) FRAME HEIGHT = PANEL HEIGHT + 1-7/8" (STD. THRESHOLD) FRAME HEIGHT = PANEL HEIGHT + 1-5/8" (ADA THRESHOLD) FRAME WIDTH = PANEL WIDTH + 2-13/16"

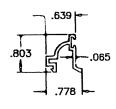
COMMERCIAL HARDWARE

GLAZING OPTIONS

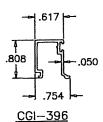


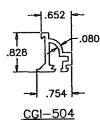


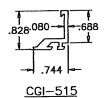
GLAZING STOP OPTIONS

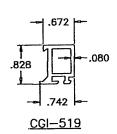


CGI-375







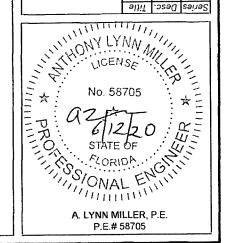


DOORS AND SIDELITES CAN BE GLAZED USING SQUARE OR OGEE GLAZING BEADS/ADAPTERS PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0619.09

Expiration Date 10/25/2022

By Shep I China
Miami-Dade Product Control

ADDED BACKBEDDING TYPES - JR - 6/11/20



BILL OF MATERIALS ITEM DESCRIPTION #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) DOUBLE 9/32" DIA. JAMB INSTLL. HOLES AT 4 6" FROM ENDS & 24" O.C. MAX. 9/32" DIA. HEAD & SILL INSTLL. HOLES AT 5 6" FROM ENDS, 3 @ CENTER OF PAIRS SPACED 6" O.C. & 24" O.C. MAX. #10 X 1" PH-PH-SS TEKS SCREW, @ 3" & 7" 6 FROM ENDS & 19-3/8" O.C. MAX. #14 X 3/4" HEX HEAD S/S TEKS SCREW AT 7 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) CGI CUSTOM 3 POINT LOCK 4503PL, CONSISTING OF (2) CGI CUSTOM END BOLTS (TOP & BOTTOM), ATTACHED WITH #10 X 3/4" PH SMS, (1) CGI CUSTOM INTERIOR LINKAGE MECHANISM, (1) DEADBOLT BY COPPER CREEK SERIES E MODEL D82410. 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. 108 regent commercial 2222 three point lock mechanism with mortise lock. 100 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.

Material	Min. F _y	Min. F
Material #14 Steel Screw, Gr 5	Min. F _y	1
		105 ksi
#14 Steel Screw, Gr 5	81 ksi	105 ksi 177 ksi
#14 Steel Screw, Gr 5 1/4" Elco UltraCon	81 ksi 155 ksi	105 ksi 177 ksi 164 ksi
#14 Steel Screw, Gr 5 1/4" Elco UltraCon 1/4" DeWalt UltraCon+	81 ksi 155 ksi 148 ksi	Min. F _u 105 ksi 177 ksi 164 ksi 177 ksi 177 ksi
#14 Steel Screw, Gr 5 1/4" Elco UltraCon 1/4" DeWalt UltraCon+ 5/16" Elco UltraCon	81 ksi 155 ksi 148 ksi 155 ksi	105 ksi 177 ksi 164 ksi 177 ksi
#14 Steel Screw, Gr 5 1/4" Elco UltraCon 1/4" DeWalt UltraCon+ 5/16" Elco UltraCon 5/16" DeWalt UltraCon+	81 ksi 155 ksi 148 ksi 155 ksi	105 ksi 177 ksi 164 ksi 177 ksi 177 ksi

HAGER 4 1/2" X 4" HINGE IN SOLID BRASS OR STAINLESS STEEL

CGI FLUSHBOLT AT TOP & BOTTOM OF INACTIVE LEAF, HOUSING ATTACHED

TO PANEL STILE WITH #10 X 3/4" PH SMS, ACTIVATOR ATTACHED WITH

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,

CGI 4-1/2" X 4" HINGE IN ALUMINUM

(3 PER PANEL UP TO 7'-6 3/4" HIGH)

(4 PER PANEL OVER 7'-6 3/4")

13 SEE SHEET 3 FOR GLAZING OPTIONS

TAPE WITH ONE SIDE ADHESIVE

#8 X 1/2" PH SMS.

PLASTIC WEEP BAFFLE

SECURED WITH (8) #12-24 X 1/2" F.H. M.S.

14 | SILICONES: GE-1200, DOW 791, 899, 983, OR 995

1/2" X 1/2" CONTINUOUS CLOSED CELL FOAM

515, 519, 539, & 540 ALL EXTRUSIONS ARE 6063-T6.

375, 396, 505, 508, 511 EXTRUSIONS ARE 6063-T5.

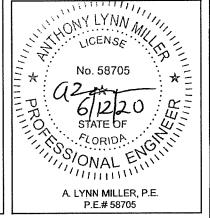
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0619.09

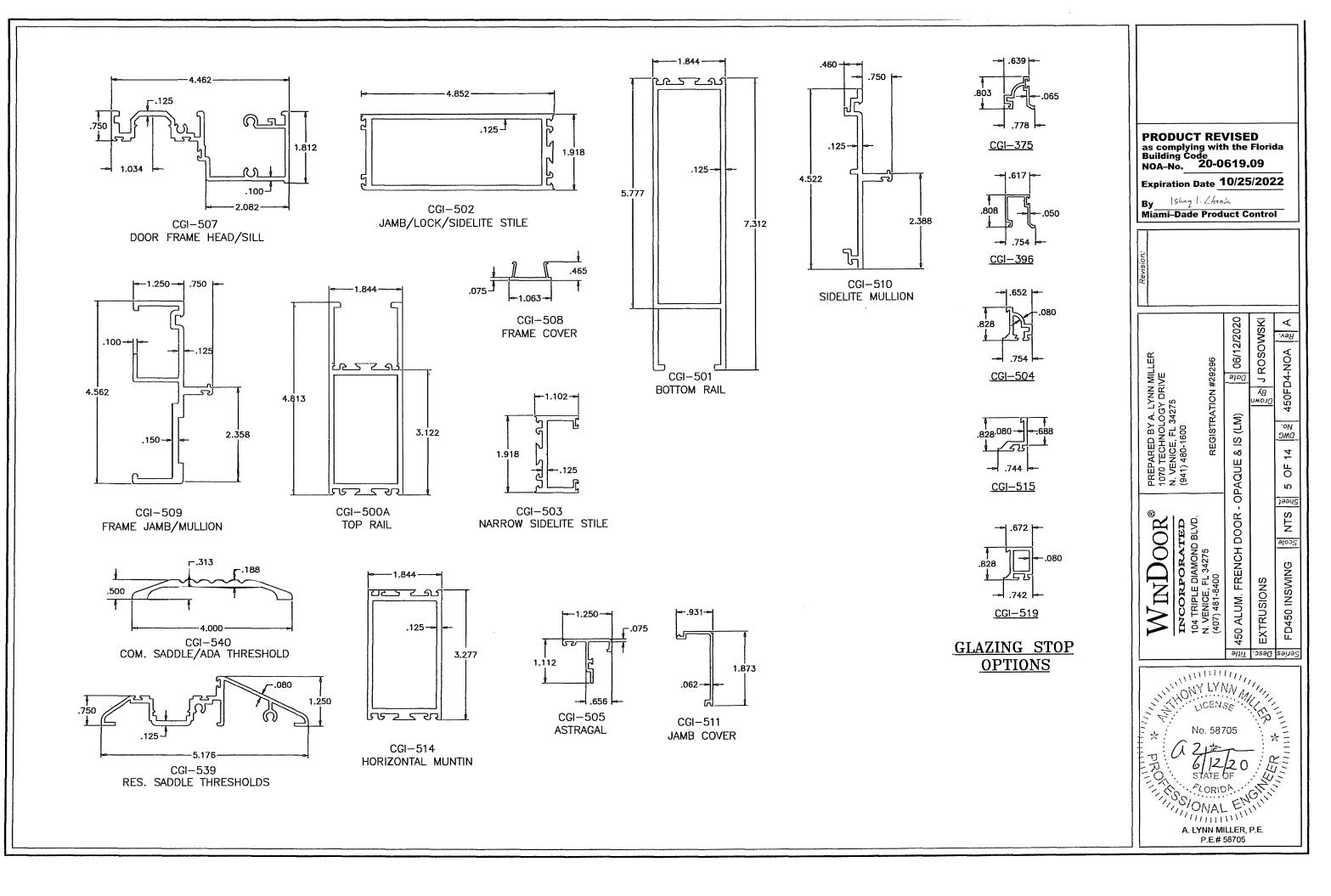
Expiration Date 10/25/2022

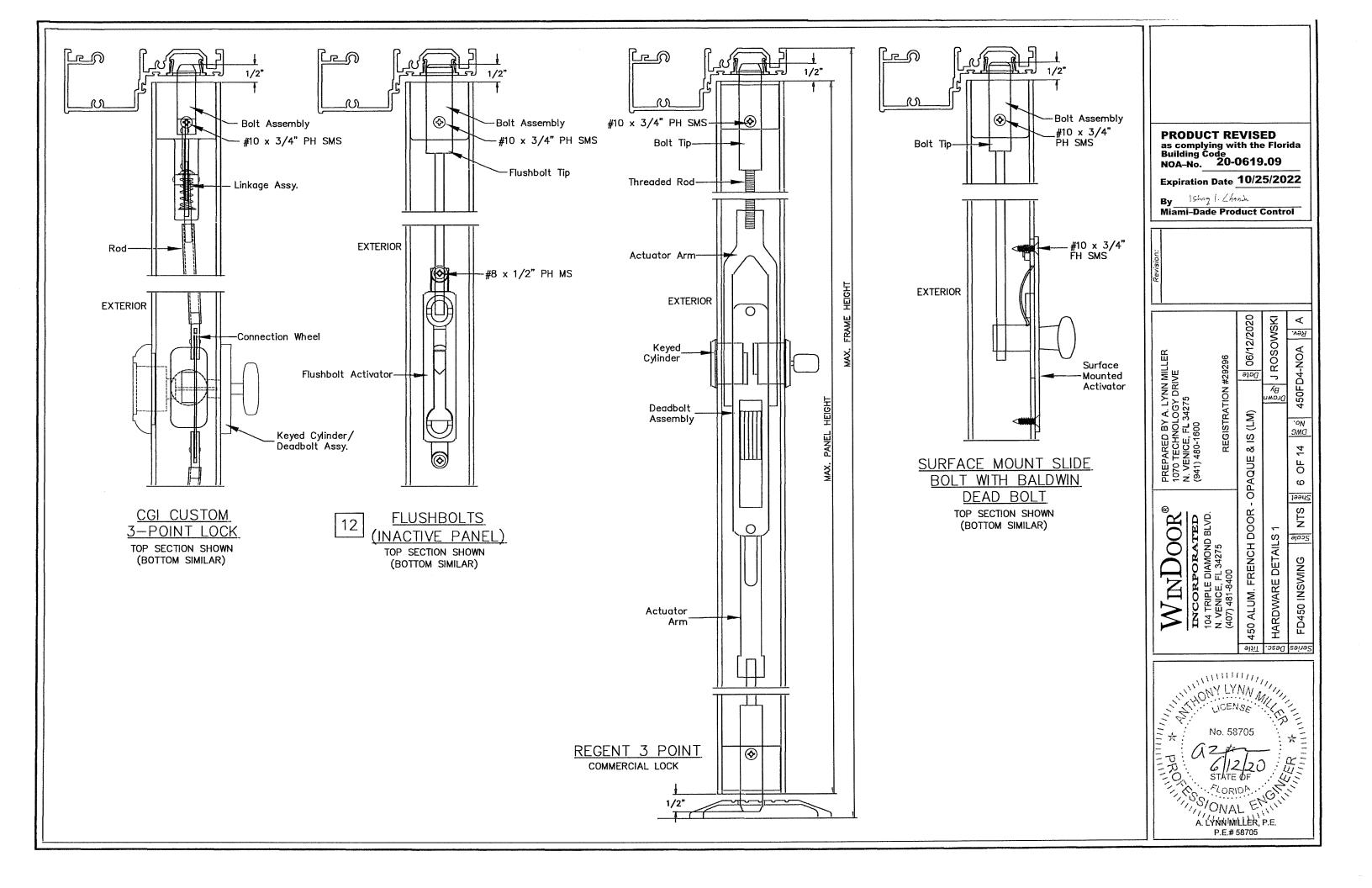
By | Shang | Chank
Miami-Dade Product Control

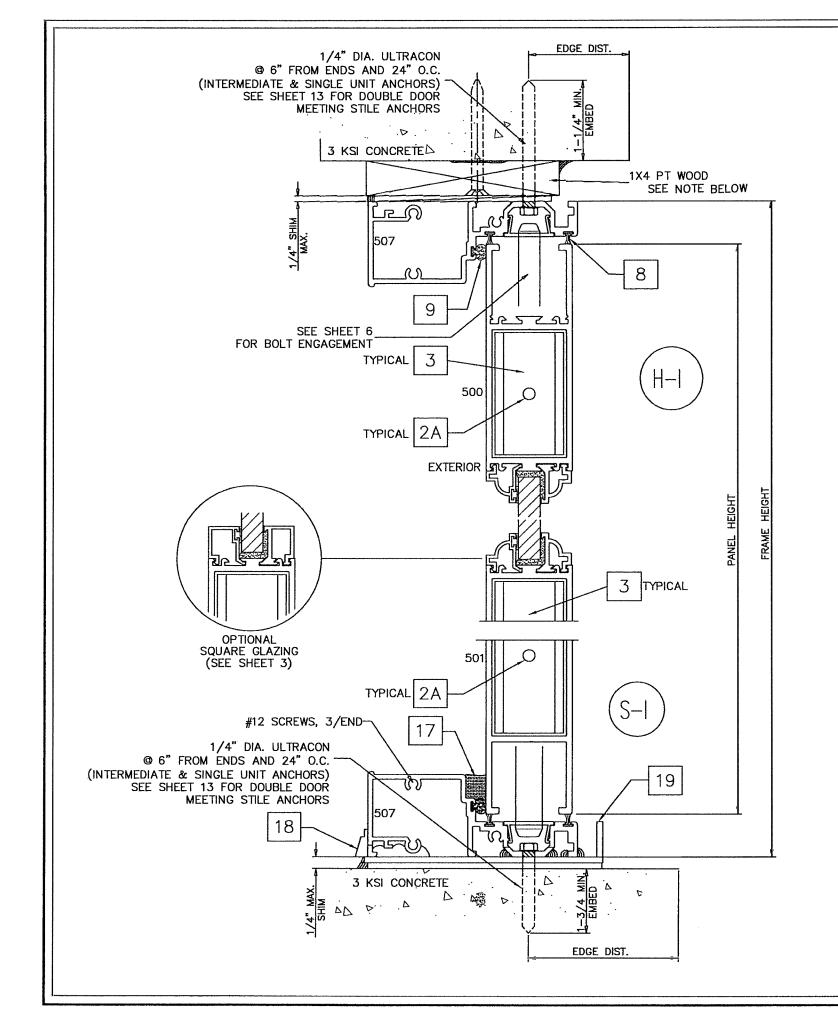
TYPES - JR - 6/11/20

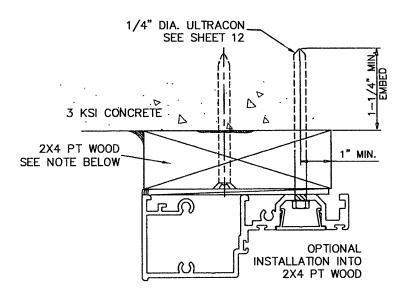
JROSOWSKI Rev. 450FD4-NOA PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296 Date Drawn Ву IS (LM) DMC OPAQUE P 450 ALUM, FRENCH DOOR -Scole FD450 INSWING BILL Series Desc. Title

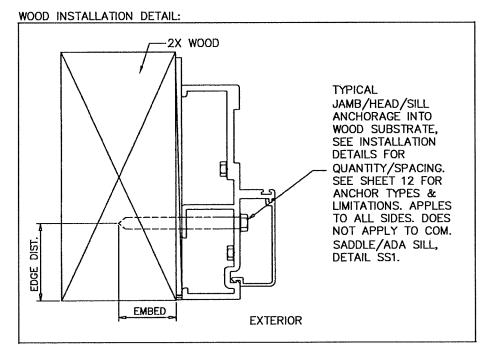












OPTIONAL INSTALLATION DIRECTLY INTO 2X WOOD

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.

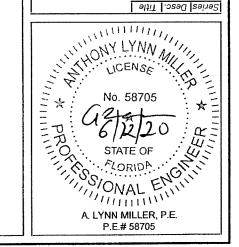
PRODUCT REVISED
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NOA-No. 20-0619.09

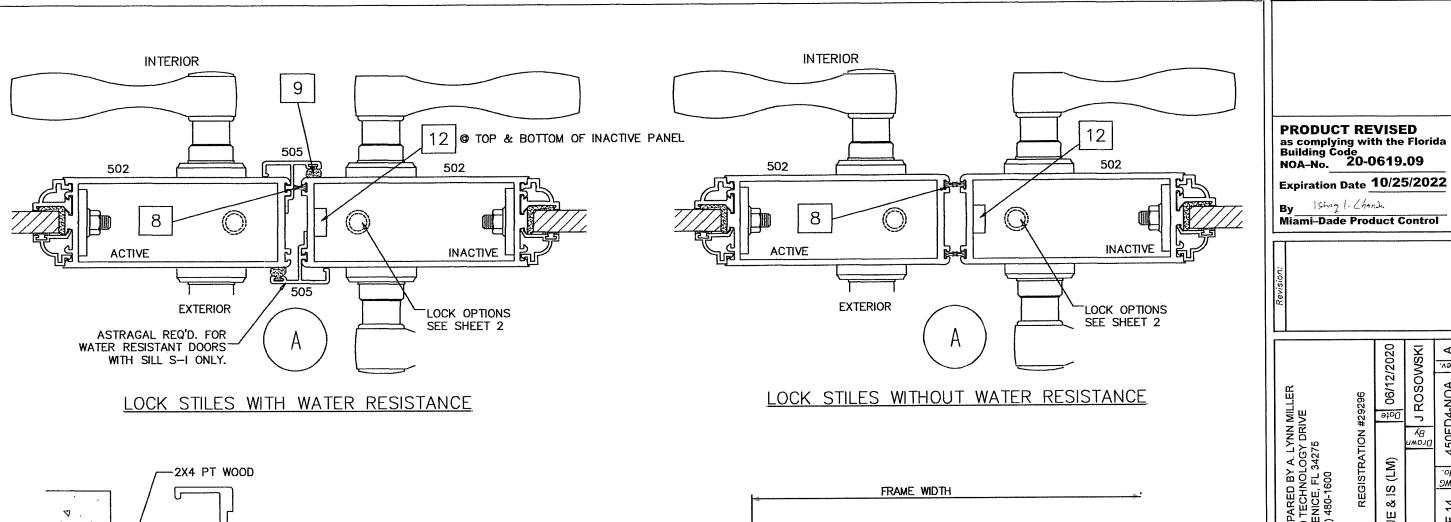
Expiration Date 10/25/2022

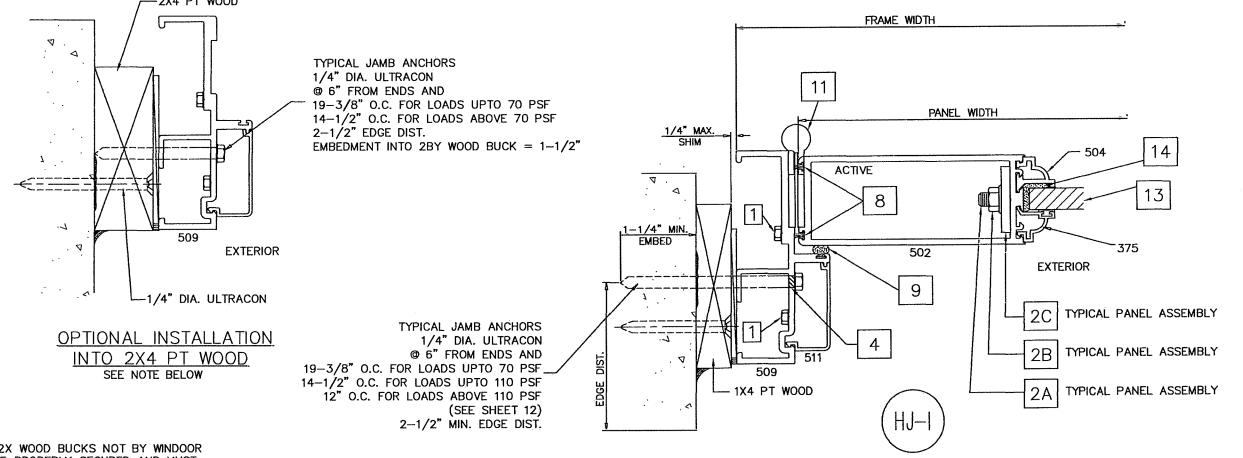
By Ishay I. Chanka
Miami-Dade Product Control

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

06/12/2020 J ROSOWSKI Rev. PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 450FD4-NOA REGISTRATION #29296 Date ŔΒ (LM)DMC <u>&</u> OPAQUE PF / Sheet NTS INCORPORATED
104 TRIPLE DIAMOND BLVD.
N. VENICE, FL 34275
(407) 481-8400 450 ALUM. FRENCH DOOR INSTALLATION DETAILS 1 Scale FD450 INSWING Series Desc. Title



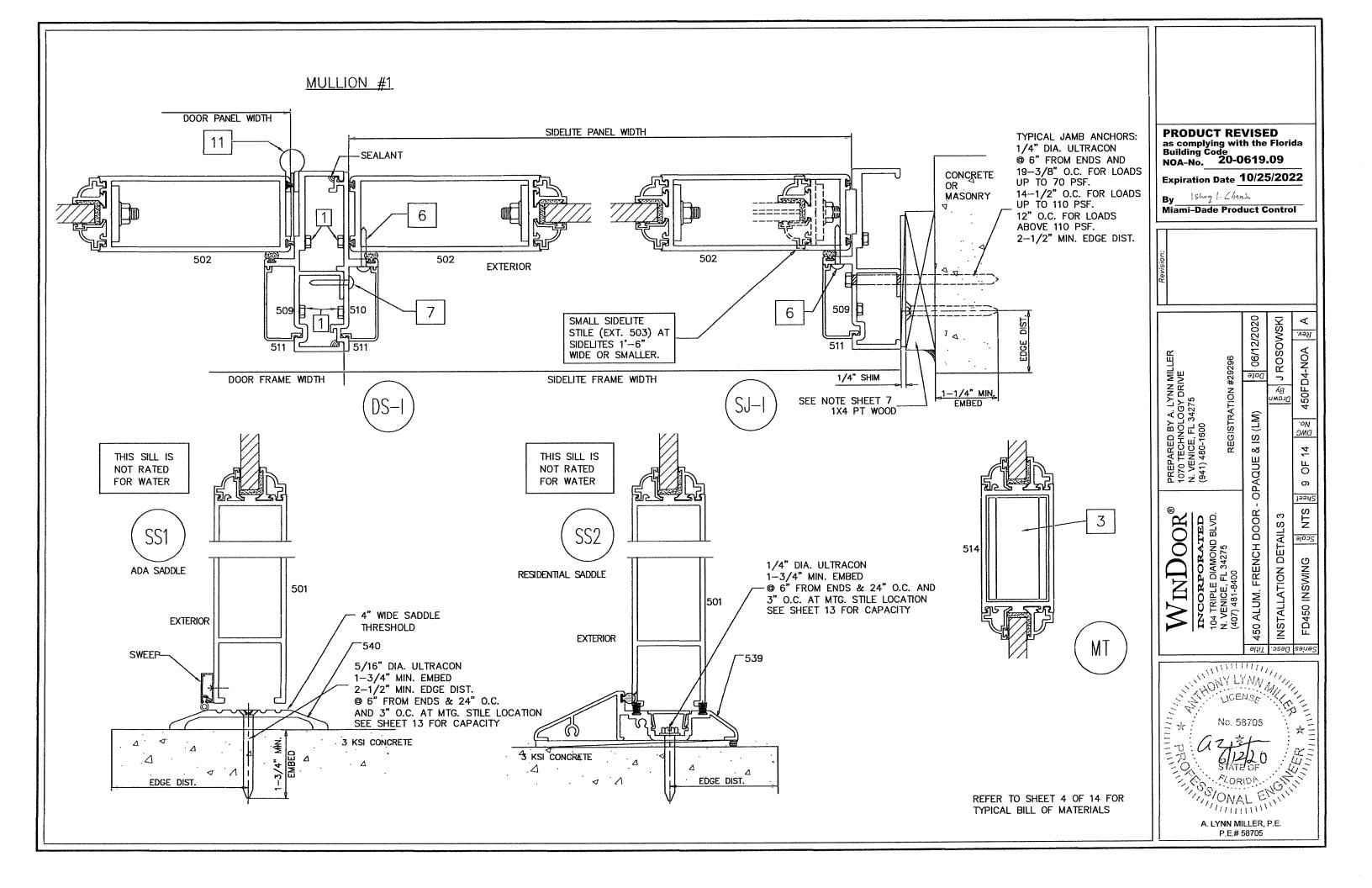


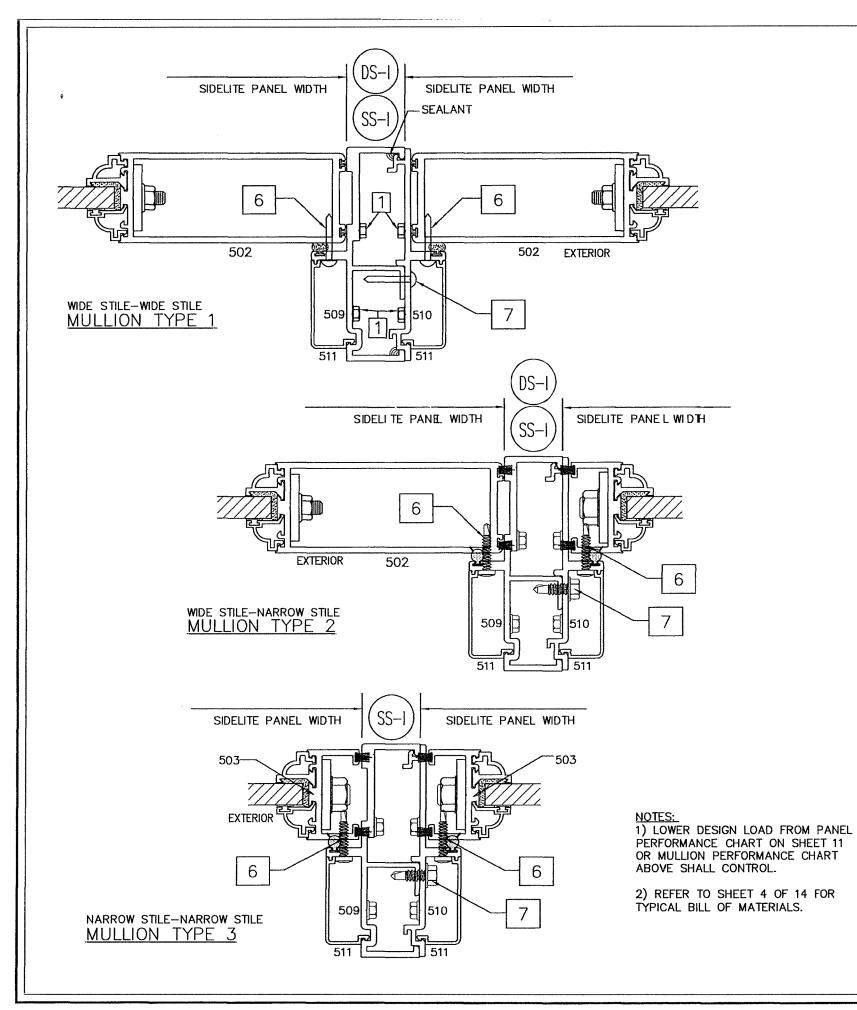


Ishay 1. Chande Miami-Dade Product Control 06/12/2020 J ROSOWSKI 450FD4-NOA 👸 A PREPARED BY A. LYNN MILLE 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 Oate Огамп Ву & IS (LM) DWG No. 14 OPAQUE P ω Sheet 450 ALUM, FRENCH DOOR -NTS INSTALLATION DETAILS 2 albos FD450 INSWING Series Desc. Title SONAL ETIMES ON A STANDARD OF THE STANDARD OF A. LYNN MILLER, P.E. P.E.# 58705

NOTE:

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





MULLION PERFORMANCE CHART DESIGN LOAD CAPACITY — PSF							
NOMIN	AL DIMS.	MULL	TYPE 1	MULL	TYPE 2	MULL '	TYPE 3
WIDTH (W)	Frame Height	EXT.(+)	INT.()	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
1/6		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	82-3/4"	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		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	84-3/4*	100.0	110.0	100.0	110.0		-
3/0		100.0	110.0	100.0	110.0	-	
3/6	1	94.2	94.2	-		-	-
1/6		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	90-3/4"	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		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	96-3/4"	100.0	110.0	100.0	110.0	_	_
3/0		100.0	110.0	-	-	_	-
3/6		59.9	59.9	_	-	-	-
1/6		100.0	110.0	100.0	110.0	100.0	110.0
2/0		100.0	110.0	100.0	110.0		_
2/6	102-3/4"	100.0	110.0	100.0	100.4	-	-
3/0		98.9	98.9	-	-	_	
3/6		59.9	59.9			_	
1/6		100.0	110.0	100.0	110.0	100.0	110.0
2/0	108-3/4"	100.0	110.0	100.0	104.1	_	
2/6	100-3/4	98.1	98.1	70.0	70.0	_	-
3/0		82.9	82.9		_	-	_
1/6		70.0	70.0	70.0	70.0	100.0	110.0
2/0	114 3/4"	70.0	70.0	70.0	70.0	-	_
2/6	114-3/4"	70.0	70.0	_		_	_
3/0		70.0	70.0	_		-	-
1/6		70.0	70.0	70.0	70.0	70.0	70.0
2/0	120. 3/4*	70.0	70.0	70.0	70.0	_	_
2/6	120-3/4"	70.0	70.0	_	-		_
3/0		59.9	59.9	-	J -	-	_

WIDTH (W) = $\frac{\text{DOOR PANEL} + \text{FIXED PANEL}}{2} + 1.25$

HEGH HIDTH PANEL WIDTH PANEL WIDTH PANEL WIDTH 1.250 1.250

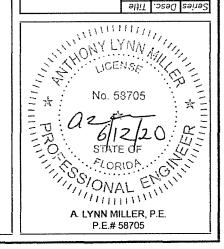
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0619.09

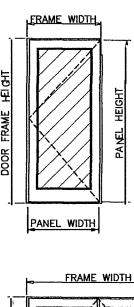
Expiration Date 10/25/2022

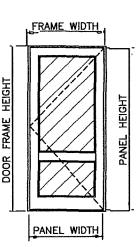
By Shang I. Chande Miami-Dade Product Control

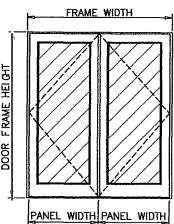
TOTAL TOTAL

MILLER VE 29296	g 06/12/2020	ab J ROSOWSKI	450FD4-NOA ½ A
RED BY A. LYNN MILLEI ECHNOLOGY DRIVE ICE, FL 34275 30-1600 REGISTRATION #29296		Огамп Ву	
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	PAQUE & IS (I	G	10 OF 14 WG
OOR TEED IND BLVD.	зн роов - о	ION AND DP	Scale
WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. N. VENICE, FL 34275 (407) 481-8400	450 ALUM. FRENCH DOOR - OPAQUE & IS (LM)	MULLION X-SECTION AND DPS	FD450 INSWING 10 OF 14 10 S 10
	217/1	Desc.	Sallac









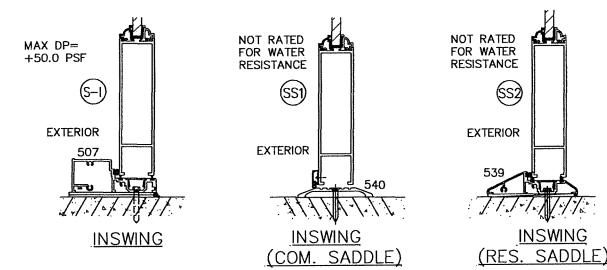
NOTES

- 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.

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

N	OMINAL DIMS		•	OSITE PANELS SITE PANELS
	FRAME WIDTH	FRAME		
(X)	CXXX	HEIGHT	EXT. (+)	INT, (-)
26-9/16*	50-1/2 *		100.0	110.0
32-9/16*	62-1/2"	82-3/4"	100.0	110.0
38-9/16*	74-1/2"	82-3/4	100.0	110,0
44-9/16*	86-1/2*		94,2	94,2
26-9/16*	50-1/2"		100.0	110.0
32-9/16*	62-1/2"	04-2/4	100.0	110.0
38-9/16*	74-1/2*	84-3/4*	100,0	110.0
44-9/16"	86-1/2"		94,2	94.2
26-9/16*	50-1/2"		100.0	110.0
32-9/16"	62-1/2"	90-3/4*	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"		100.0	110.0
32-9/16"	62-1/2"	05.044	100.0	110.0
38-9/16*	74-1/2"	96-3/4*	100.0	110.0
44-9/16"	86-1/2"		59,9	59.9
26-9/16*	50-1/2"		100.Ò	110.0
32-9/16*	62-1/2*		100.0	110.0
38-9/16*	74-1/2"	102-3/4"	100.0	110.0
44-9/16*	86-1/2*		59.9	59.9
26-9/16"	50-1/2 "		100.0	110.0
32-9/16*	62-1/2"	108-3/4*	100.0	110.0
38-9/16*	74-1/2"	,	100.0	110,0
26-9/16*	50-1/2"		70.0	70.0
32-9/16*	62-1/2*	114-3/4"	70.0	70.0
38-9/16*	74-1/2"		70.0	70.0
26-9/16*	50-1/2"		70.0	70.0
32-9/16*	62-1/2*	120-3/4*	70.0	70.0
38-9/16*	74-1/2"	·	70.0	70.0

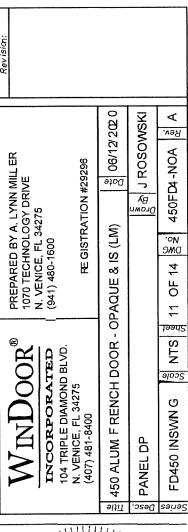
LOADS SHOWN ABOVE ARE FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED. LIMIT EXT.(+) LOADS TO 50.0 PSF FOR THRESHOLS S—I WHERE WATER INFILTRATION RESISTANCE IS REQUIRED. THRESHOLDS SS1 AND SS2 ARE NOT RATED FOR WATER INFILTRATION.

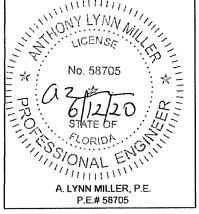


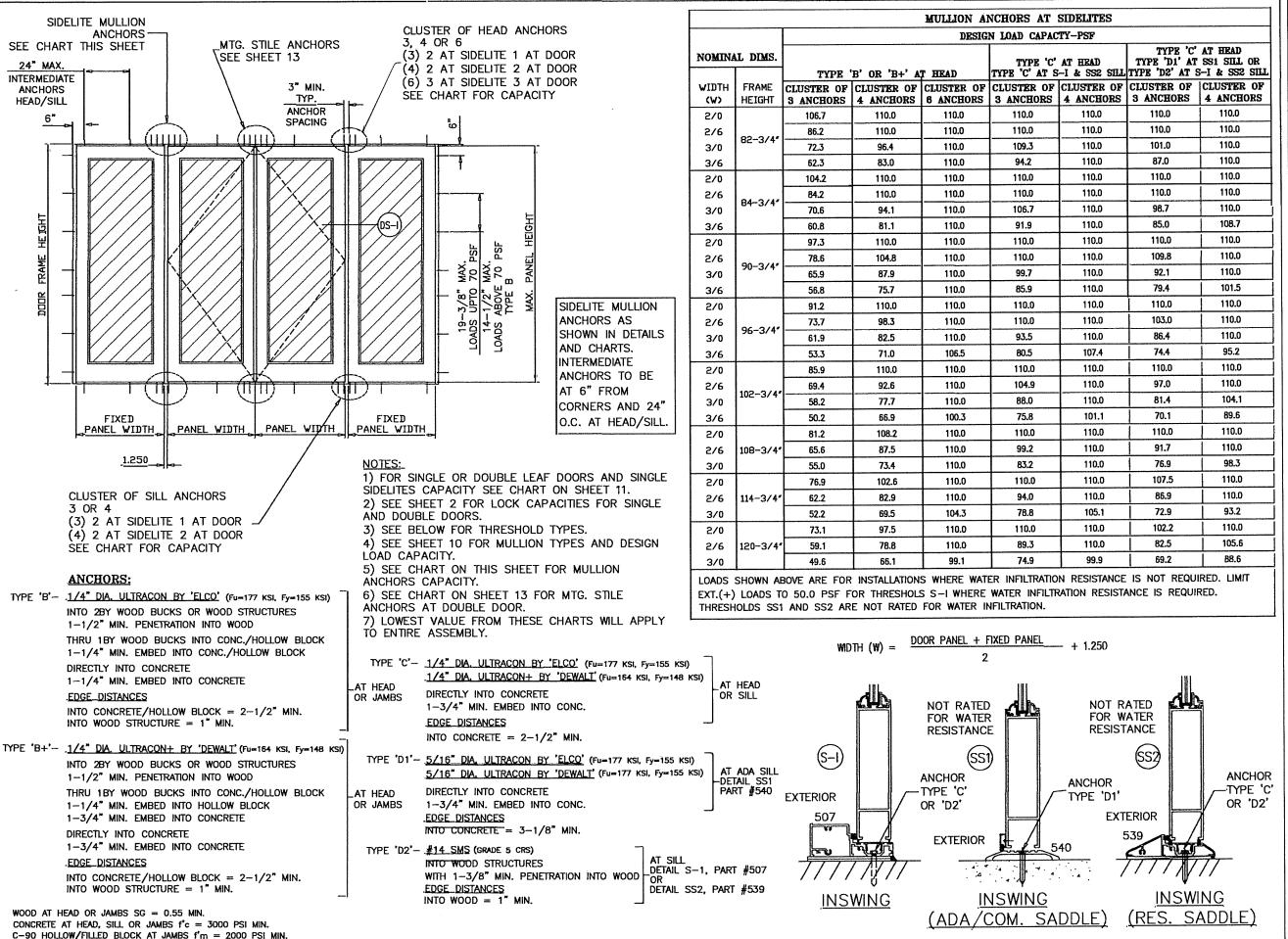
PRODUCT REVISED
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NOA-No. 20-0619.09

Expiration Date 10/25/2022

By Shang I. Chank
Miami-Dade Product Control







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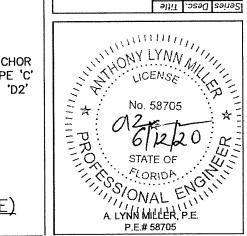
Expiration Date 10/25/2022

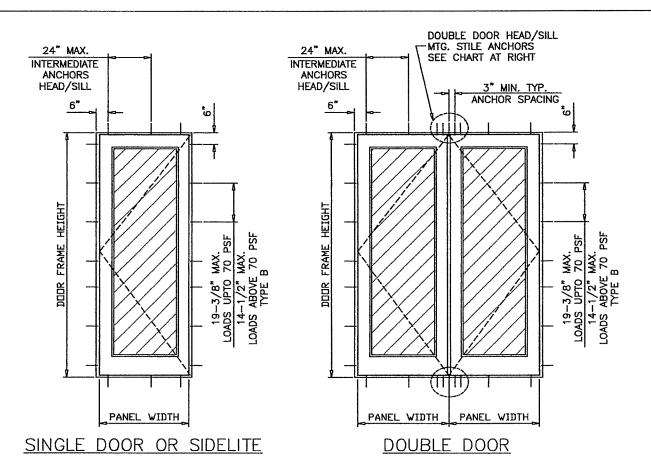
By Shap I. Chente

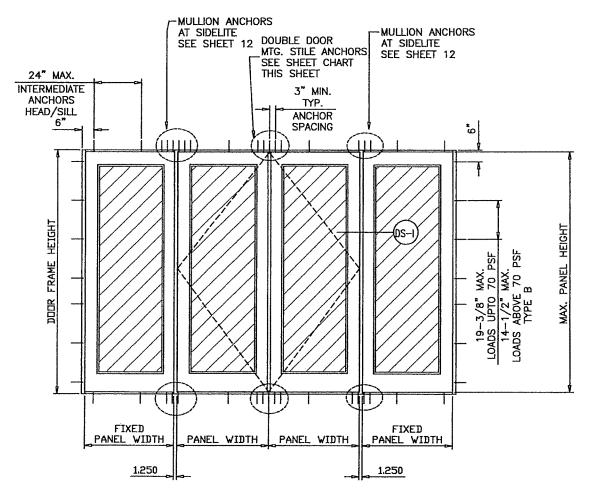
By 1944 7 1. 2 1960 Control

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

JROSOWSKI Rev. 450FD4-NOA 06/1 7 A. LYNN MILLE LOGY DRIVE 34275 Date VΒ 무수 나 있 .oN PREPARED E 1070 TECHNC N. VENICE, FI (941) 480-160 <u>DMC</u> $\overline{\mathbf{o}}$ 4 જ OPAQUE Я 7 Sheet NTS DOOR OOR TED BLVD. २००५ FRENCH F D450 I NSWING ALUM. ANCHOR 450, Series Desc. Title







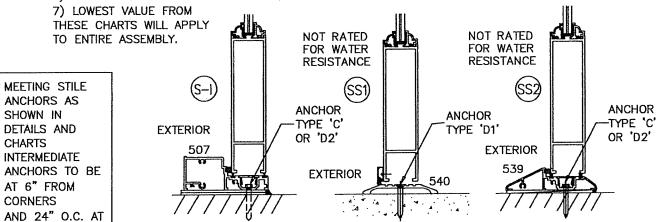
MTG. STILE ANCHORS AT DOUBLE DOORS								
				DESIG	N LOAD CAPAC	TY-PSF		
	L DIMS.	murnin 1	B' OR 'B+' A	m maan		AT HEAD	TYPE 'D1' AT	AT HEAD SS1 SILL OR S-I & SS2 SILL
FRAME WIDTH	FRAME	CLUSTER OF	CLUSTER OF	CLUSTER OF		CLUSTER OF		CLUSTER OF
CXX	HEIGHT	3 ANCHORS	4 ANCHORS	5 ANCHORS	3 ANCHORS	4 ANCHORS	3 ANCHORS	4 ANCHORS
50-1/2*		106.7	110.0	110.0	110.0	110.0	110.0	110.0
62-1/2*	02.2744	86.2	110.0	110.0	110.0	110.0	100.7	110.0
74-1/2*	82-3/4"	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*		104.2	110.0	110.0	110.0	110.0	110.0	110.0
62-1/2*	04-274	84.2	110.0	110.0	110.0	110.0	98.4	110.0
74-1/2*	84-3/4*	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*		97.3	110.0	110.0	110.0	110.0	110.0	110.0
62-1/2*	00 044	78.6	104.8	110.0	110.0	110.0	91.9	110.0
74-1/2"	90-3/4*	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"		91.2	110.0	110.0	110.0	110.0	106.6	110.0
62-1/2"	25 244	73.7	98.3	110.0	110.0	110.0	86.2	110.0
74-1/2"	96-3/4"	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*		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"	102-3/4*	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*		81.2	108.2	110.0	110.0	110.0	94.9	110.0
62-1/2*	108-3/4"	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*		76.9	102.6	110.0	110.0	110.0	89.9	110.0
62-1/2*	114-3/4"	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*	<u> </u>	73.1	97.5	110.0	110.0	110.0	85.4	110.0
	120-3/4*	59.1	78.8	98.5	B9.3	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.

INSWING

HEAD/SILL.

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



INSWING

(ADA/COM. SADDLE)

<u>INSWING</u>

(RES. SADDLE)

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0619.09

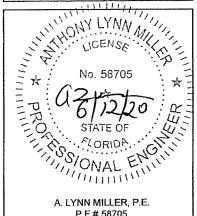
Expiration Date 10/25/2022

By Ishay I. Chanda

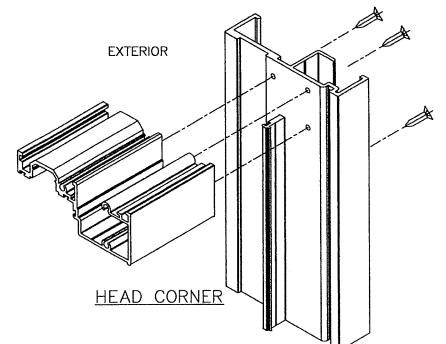
Miami-Dade Product Control

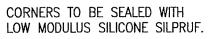
ADDED ANCHOR TYPE, & REFORMATTED - JR - 6/11/20

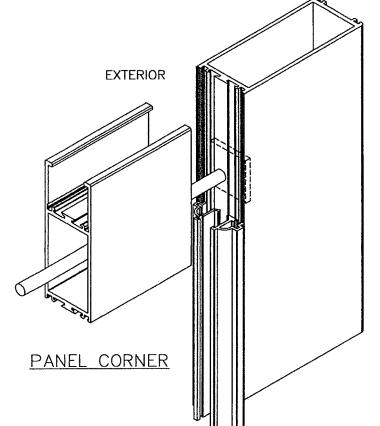
06/12/2020 J ROSOWSKI Rev. PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 450FD4-NOA Date Λg DWG <u>8</u> 4 OPAQUE PF 13 Sheet DOOR. NTS Scale 450 ALUM. FRENCH FD450 INSWING ANCHOR DP Series Desc. Title

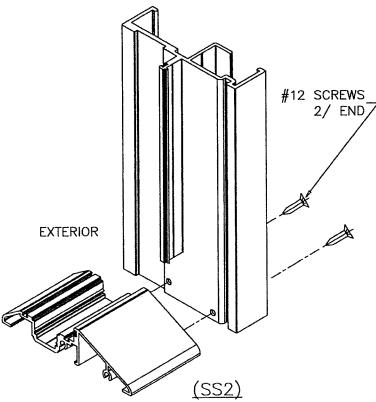


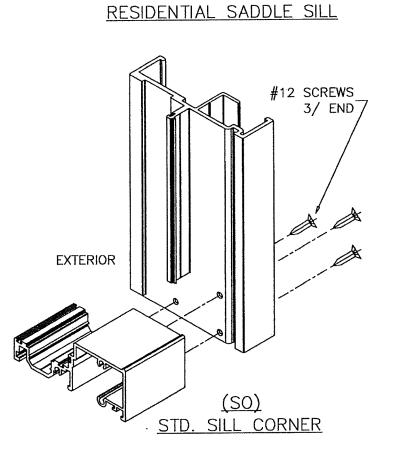
CORNER DETAILS

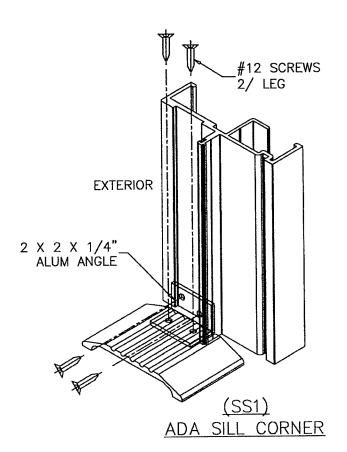


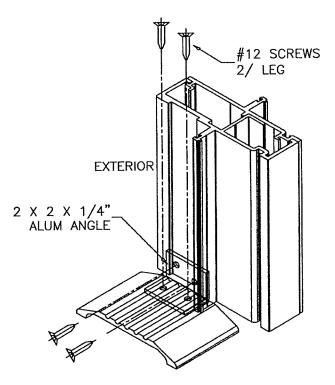












ADA SILL @ MULLION

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0619.09

Expiration Date 10/25/2022

By Istag I. Chinda Miami-Dade Product Control

450 ALUM. FRENCH DOOR - OPAQUE & IS (LM) DWG No. 4 OF NTS FD450 INSWING

