

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

NOTICE OF ACCEPTANCE (NOA)

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

CGI Windows & Doors, Inc. 3780 W. 103rd Street Hialeah, FL 33018

SCOPE:

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

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

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

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

APPROVAL DOCUMENT: Drawing No. **450FD2-NOA Rev A** (former **W12-22 Rev C**), titled "Series 450 Outswing Door & Sidelites", sheets 1 thru 17 of 17, prepared by manufacture, dated 06/12/20, signed and sealed by Lynn Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact

Limitations:

- 1. Lock **10D** or **10E** is limited to max 38-9/16 W x 94-7/8 H door.
- 2. Sills (threshold) types SS-1 & SS-2 are not rated for water infiltration. See thresholds (sills) 9 & 12.
- 3. Narrow stile sidelites are limited to 18" or less.
- 4. The frame of alternate sizes 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 # 17-1011.14 and consists of this page 1 and evidence pages E-1, E-2, E-3 & E-4, as well as approval document mentioned above.

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



Ishaq I. Chands

NOA No. 20-0619.06 Expiration Date: October 25, 2022 Approval Date: November 05, 2020 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S

A. DRAWINGS

- 1. Manufacturer's die drawings and sections (Submitted under files below).
- 2. Drawing No.**W12-22 Rev B**, titled "Series 450 Outswing Doors & Sidelites", sheets 1, 1.1, 1.2, 1.3, 2, 2.1, 2.2, 2.3, 3, 3.1, 4, 5, 6, 7 7.1 and 7.2 of 7, prepared by Al-Farooq Corporation, dated 05-22-12 and last revised on SEP 02, 2015, signed and sealed by Javad Ahmad, P.E.
- B. TESTS (Submitted under files #12-0706.02)
 - 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 out swing / Inswing door w/wo sidelites, by Hurricane Testing Laboratory, Inc., Test Report No. **HTL-0080-0304-11** dated 11/28/2011 and **HTL-0080-0902-11**, signed and sealed by Vinu J. Abraham, P.E.

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

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

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

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

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

Ishaq I. Chanda, P.E. Product Control Unit Supervisor NOA No. 20-0619.06 Expiration Date: October 25, 2022

Approval Date: November 05, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (continued):

3. Reference Certified Testing Laboratories test report # CTLA **3056WA**, issued to CGI Windows & Door, 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

- 1. Anchor verification calculations and structural analysis, complying with FBC-2014(5th Edition), prepared by Al Farooq Corporation, dated 10/27/14 and last revised on AUG 27, 2015, signed and sealed by Javad Ahmad, P.E.
- 2. Additional intermediate horizontal mull calculations, prepared by Al Farooq Corporation, dated JUN 29, 2012, signed and sealed by Javad Ahmad, P.E. (Submitted under file # 11-1025.02)

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None

F. STATEMENTS

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

G. OTHER

- 1. This NOA revises # 12-0706.02, 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.

2. EVIDENCE SUBMITTED under previous NOA(s)

A. DRAWINGS

1. Drawing No.**W12-22 Rev C**, titled "Series 450 Outswing Doors & Sidelites", sheets 1, 1.1, 1.2, 1.3, 2, 2.1, 2.2, 2.3, 3, 3.1, 4, 5, 6, 7 7.1 and 7.2 of 7, prepared by Al-Farooq Corporation, dated 05/22/17 and last revised on 09/21/17, signed and sealed by Javad Ahmad, P.E.

Ishaq I. Chandes

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 20-0619.06
Expiration Date: October 25, 2022
Approval Date: November 05, 2020

CGI Windows & Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS

1 None.

C. CALCULATIONS

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

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

None.

F. STATEMENTS

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

G. OTHERS

1. This NOA revises and renews NOA # 17-1011.14, expiring on 10/25/22.

3. New Evidence submitted

A. DRAWINGS

1. Drawing No. **450FD2-NOA Rev A** (former **W12-22 Rev C**), titled "Series 450 Outswing Doors & Sidelites", sheets 1 thru 17 of 17, prepared by manufacture, 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 CGI Windows and Doors, Inc. and PGT Industries, Inc., representative units listed below and tested to qualify **Dowsil 791** and **Dowsil 983** silicones, per Proposal #19-1155TP, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.:

Ishaq I. Chands

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 20-0619.06
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B. TESTS (continue)

CGI Windows and Doors Inc. test specimens:

FTL-20-2108.1, CGI SH360 Aluminum Single Hung Window (unit 1 in proposal) FTL-20-2108.2, CGI CA238 Alum. Outswing Casement Window (unit 2 in proposal) FTL-20-2108.3, CGI SGD560 Aluminum Sliding Glass Door (unit 3 in proposal) FTL-20-2108.4, CGI PW410 Aluminum Fixed Window (unit 4 in proposal) and FTL-20-2108.5, CGI SH360 Aluminum Single Hung Window (unit 5 in proposal) all dated 08/24/20 and signed and sealed by Idalmis Ortega, P.E.

PGT Industries, Inc. test specimens:

FTL-7897, PGT PW5520 PVC Fixed Window (unit 6 in proposal), dated 09/03/14 FTL-20-2107.1, PGT SGD780 Aluminum Sliding Glass Door (unit 7 in proposal) FTL-20-2107.2, PGT CA740 Alum. Outswing Casement Window (unit 8 in proposal) FTL-20-2107.3, PGT PW7620A Aluminum Fixed Window (unit 9 in proposal) and FTL-20-2107.4, PGT PW7620A Aluminum Fixed Window (unit 10 in proposal) all dated 07/13/20 and signed and sealed by Idalmis Ortega, P.E.

C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with **FBC 2020**, **7**th **Edition**, prepared by manufacturer, dated 04/20/20, signed and sealed by A. Lynn Miller, P. E.
- 2. Glazing complies with ASTM E1300–04, -09, -12 and-16.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. 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 06/12/20, signed and sealed by A. Lynn Miller, P.E.

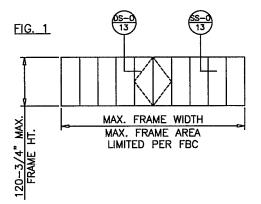
G. OTHER

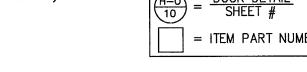
- 1. This NOA revises # 17-1011.13 and updates to FBC 2020, expiring 10/25/22.
- 2. RER Test proposals #19-1155 dated 01/10/20 approved by Ishaq I. Chanda, P.E.

Ishaq I. Chands

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

- 1) THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION)/2020 (7TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2) 1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.
- 3) ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- 4) A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
- 5) ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.
- 6) MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017/2020 FLORIDA BUILDING CODE & ADOPTED STANDARDS.
- 7) THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, I.E. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.
- 8) EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL. FRAME HEIGHT = PANEL HEIGHT + 1-7/8" (STD. THRESHOLD) FRAME HEIGHT = PANEL HEIGHT + 1-5/8" (ADA THRESHOLD) FRAME WIDTH = PANEL WIDTH + 2-13/16"

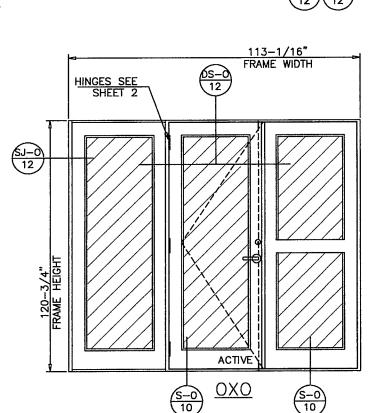


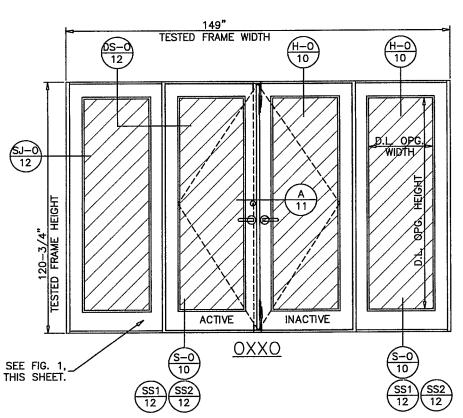


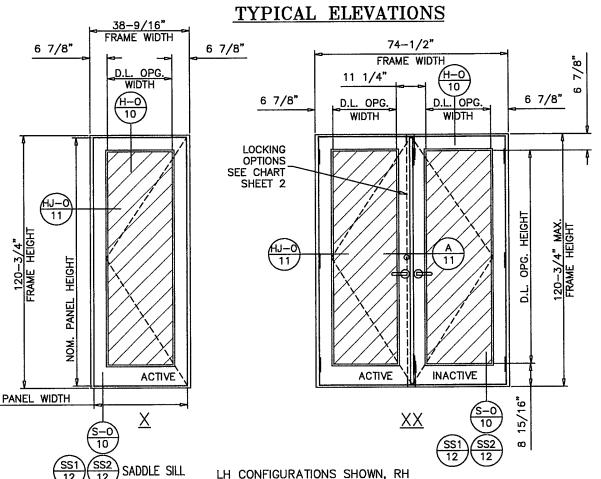
LEGEND

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

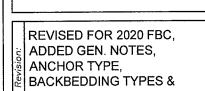
DOOR DETAIL = ITEM PART NUMBER







SIMILAR (SEE SHEET 2 FOR SIZES)



PRODUCT REVISED

Ishag 1. Chands

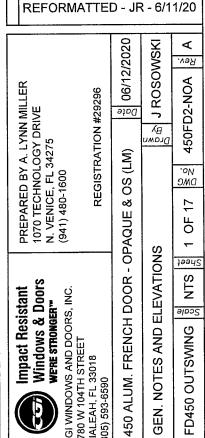
NOA-No.

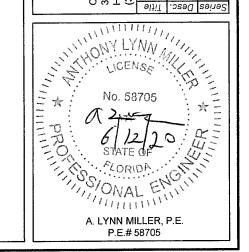
as complying with the Florida Building Code

Expiration Date 10/25/2022

Miami-Dade Product Control

20-0619.06





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

HARDWARE DESCRIPTION, TYPICAL ELEVATIONS

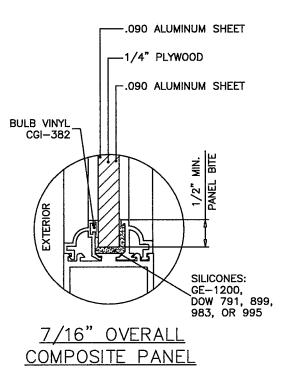
FRAME HEIGHT	DOOR/SIDELITE PANEL * HEIGHT	D.L. OPG HEIGHT
82-3/4"	80-7/8"	67-3/8"
84-3/4*	82-7/8"	69-3/8
90-3/4"	88-7/8"	75-3/8
96-3/4"	94-7/8"	81-3/8"
102-3/4"	100-7/8"	87-3/8
108-3/4"	106-7/8"	93-3/8"
114-3/4"	112-7/8"	99-3/8
120-3/4"	118-7/8*	105-3/8

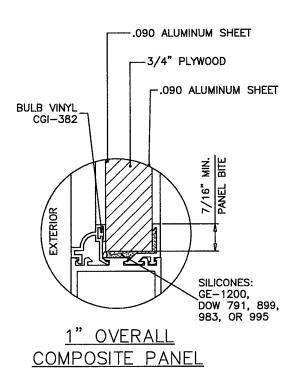
^{*} HEIGHTS FOR STD. THRESHOLD

RAME	HEIGHT =	PANEL	HEIGHT	+	1-7/8"	(STD.	THRESHOLD))
RAME	HEIGHT =	PANEL	HEIGHT	+	1-5/8"	(ADA)	THRESHOLD)	j
	WIDTH - I					•	·	

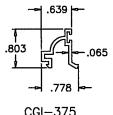
HARDWARD DESC	CHILITON, TITIONE EMETATIONS			
TRUE HORIZONTAL MORE PER DOR SIDELLITE PANEL)	(SEI	DOORS E SHEET 1) MAX. FRAME		296 06/12/2020 ROSOWSKI NOA
X OR O 74-1/2" MAX. FRAME WIDTH CGI 3-POINT LOCK 111 X NO	OOXX 74-1/2" MAX. FRAME WIDTH REGENT COMMERCIAL 3 POINT LOCK FR	UP TO 90- ABOVE 90-3/4" UP	10C & 10CC 10D & 10E 10 F EXT.(+) INT.(-) EXT.(+) INT.(-) EXT.(+) INT.(-) 65.0 65.0 65.0 70.0 70.0 90.0 90.0	PREPARED BY A. LYNN MIL 1070 TECHNOLOGY DRIVE
TOOL 3/4" MAX. FRAME HEIGHT 37–5/8" 5–1/2" AAL 1/2" MAX. 44–1/2" MAX. HINGE LOCATION	120-3/4" MAX. FRAME HEIGHT ACLIDANI SG. LOCK LOCATION		FRAME WIDTH (XX) 26-9/16" 50-1/2" 23-3/4" 12-3/4" 32-9/16" 62-1/2" 29-3/4" 18-3/4" 38-9/16" 74-1/2" 35-3/4" 24-3/4" 44-9/16" 86-1/2" 41-3/4" 30-3/4" FRAME HEIGHT DOOR/SIDELITE PANEL * HEIGHT	Mindows & Doors Windows & Doors Were Stronger Were Stronge
ESIDENTIAL HARDWARE RESIDENTIAL HARDWARE LH CONFIGURATIONS SHOWN, RH SIMILAR (SEE SHEET 2 FOR SIZES)	COMMERCIAL HARDWARE COMMERCIAL HARDWARE 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"	= ITEM PART NUMBER	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	No. 58705 A 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

GLAZING OPTIONS

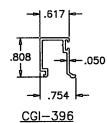


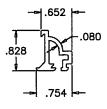


GLAZING STOP **OPTIONS**



CGI-375

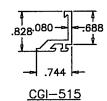


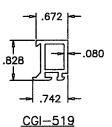


PRODUCT REVISED as complying with the Florida Building Code 20-0619.06 NOA-No.

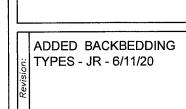
Expiration Date 10/25/2022

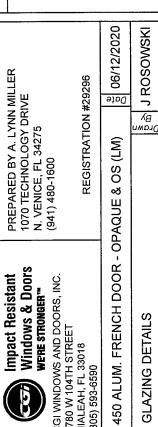
Ishaq 1. Chank Miami-Dade Product Control





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





450FD2-NOA RE

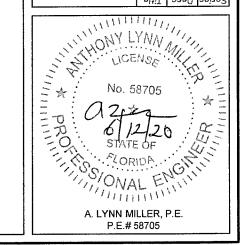
DWG

OF 17

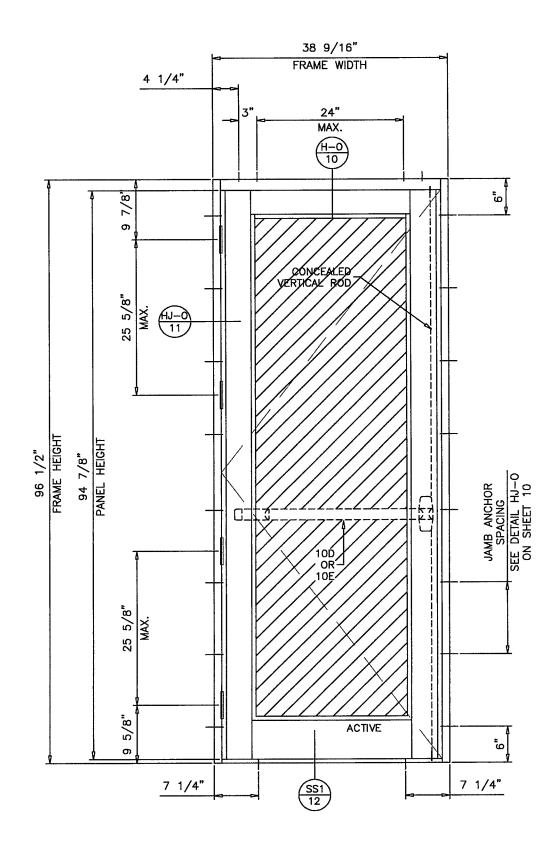
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N N Sheet

FD450 OUTSWING



CVR PANIC HARDWARE



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0619.06

Expiration Date <u>10/25/2022</u>

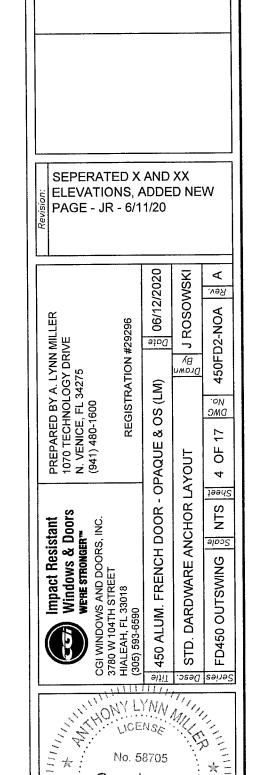
By | Shap | . Zhanka Miami-Dade Product Control

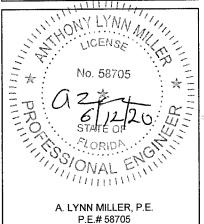
APPROVED PANIC HARDWARE FOR DOORS

DOR-O-MATIC SERIES 1690 TOUCHBAR EXIT DEVICE

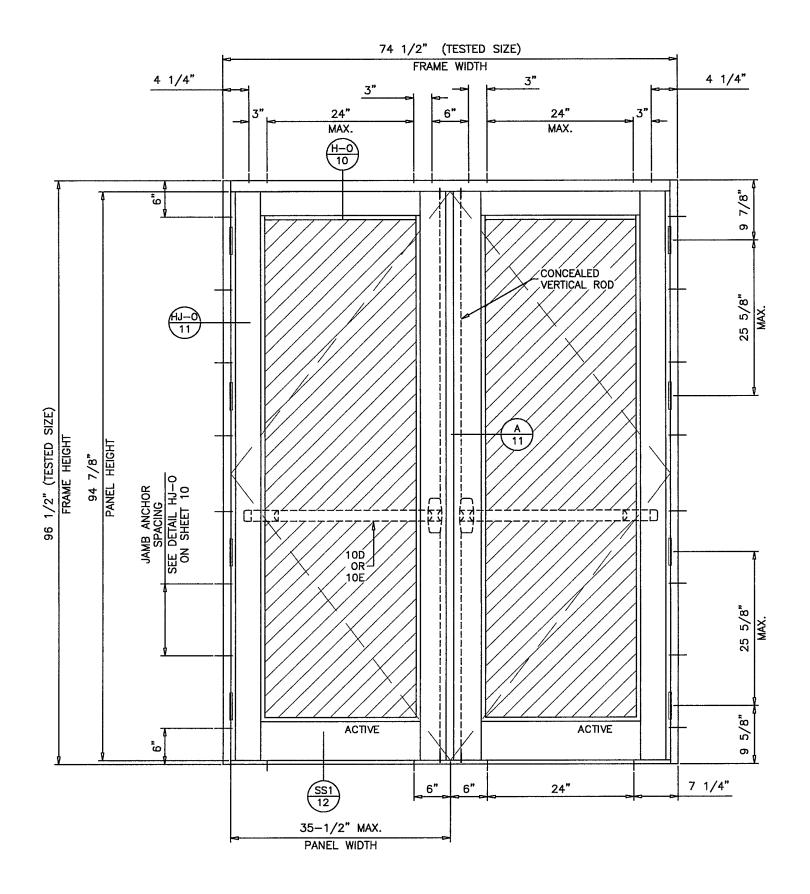
JACKSON SERIES 2085/2086 CONCEALED VERTICAL

ROD EXIT DEVICE





CVR PANIC HARDWARE



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0619.06

Expiration Date <u>10/25/2022</u>

By Ishag I. Chank
Miami-Dade Product Control

APPROVED PANIC HARDWARE FOR DOORS

DOR-O-MATIC SERIES 1690 TOUCHBAR EXIT DEVICE

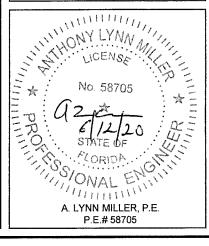
JACKSON SERIES 2085/2086 CONCEALED VERTICAL
ROD EXIT DEVICE

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

DOOR NOT RATED FOR WATER INFILTRATION RESISTANCE.

LOCK OPTIONS 10D AND 10E

Revision:				
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	PAQUE & OS (LM) (2) 06/12/2020	AYOUT كا J ROSOWSKI	NTS STREET 5 OF 17 WG 450FD2-NOA Rev. A
Impact Resistant Windows & Doors Were stronger CGI WINDOWS AND DOORS, INC. 3780 W 104TH STREET	HIALEAH, FL 33018 (305) 593-6590	450 ALUM. FRENCH DOOR - OPAQUE & OS (LM)	PANIC HARDWARE ANCHOR LAYOUT	FD450 OUTSWING OF STREET



ITEM	DESCRIPTION BILL OF MATER	RIALS
1	#12 X 1 1/4" HEX HEAD S/S SMS (3 PER CORNER CONNECTION)	НА
2A	3/8-16 FULLY THREADED CONTINUOUS ROD	CGI 11 SEC
2B	3/8-16 HEX NUT	(3 (4
2C	1 1/2" X 1 1/2" X 3/16"THK. ALUMINUM PLATE	12 TO
3	SHEAR CLIP (EXT. NO. 506)	#8
4	DOUBLE 9/32" DIA. JAMB INSTLL. HOLES AT 6" FROM ENDS & 24" O.C. MAX.	13 SEE
5	9/32" DIA. HEAD & SILL INSTLL. HOLES AT 6" FROM ENDS, 3 @ CENTER OF PAIRS SPACED 6" O.C. & 24" O.C. MAX.	17 1/1 17 TAI
6	#10 X 1" PH-PH-SS TEKS SCREW, @ 3" & 7" FROM ENDS & 19-3/8" O.C. MAX.	19 7/8
7	#14 X 3/4" HEX HEAD S/S TEKS SCREW AT 6" FROM ENDS & 24 3/16" O.C. MAX.	EXTRUS
8	.320 HIGH WOOL PILE WITH CENTER FIN (ULTRAFAB # 3032)	515, 51 375, 39
9	.350 HIGH FOAM-TITE WEATHERSEAL (AMESBURY # 32011)	
10	ACTIVE PANEL LOCK OPTIONS (SEE SHEET 1.1 FOR LIMITS)	
10	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.	
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 BALDWIN SERIES 8200, KWIKSET 780.	
10	B REGENT COMMERCIAL 2222 THREE POINT LOCK MECHANISM WITH MORTISE LOCK	•
10	SINGLE POINT LOCK (1) DEADBOLT BY BALDWIN SERIES 8200.	
L	SINGLE POINT LOCK (1) DEADBOLT BY COPPER CREEK SERIES D82410.	
<u> </u>	DOR-O-MATIC SERIES 1690 TOUCHBAR PANIC EXIT DEVICE WITH CONCEALED VERTICAL ROD SEE SHEET 5.	
	JACKSON 20 SERIES PANIC EXIT WITH 2085/2086 CONCEALED VERTICAL ROD EXIT DEVICE SEE SHEET 5.	
10	CGI CUSTOM SURFACE MOUNTED SLIDE BOLTS WITH CGI END BOLTS AT ACTIVE (AT TOP & BOTTOM) WITH BALDWIN SERIES 8200 DEAD BOLT.	LEAF

AGER 4 1/2" X 4" HINGE IN SOLID BRASS OR STAINLESS STEEL GI 4-1/2" X 4" HINGE IN ALUMINUM

- 11 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")
- CGI FLUSHBOLT AT TOP & BOTTOM OF INACTIVE LEAF, HOUSING ATTACHED TO PANEL STILE WITH #10 X 3/4" PH SMS, ACTIVATOR ATTACHED WITH #8 X 1/2" PH SMS.
- 13 SEE SHEET 3 FOR GLAZING OPTIONS
- 14 SILICONES: GE-1200, DOW 791, 899, 983, OR 995
- 17 1/2" X 1/2" CONTINUOUS CLOSED CELL FOAM TAPE WITH ONE SIDE ADHESIVE
- 18 PLASTIC WEEP BAFFLE
- 19 7/8" X 5" X 1/8" THK. CONTINUOUS ALUMINUM SILL ANGLE ADAPTER

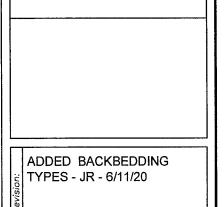
EXTRUSION LIST: 500A, 501, 502, 503, 504, 507, 509, 510, 514, 515, 519, 539, & 540 ALL EXTRUSIONS ARE 6063–T6. 375, 396, 505, 508, 511 EXTRUSIONS ARE 6063–T5.

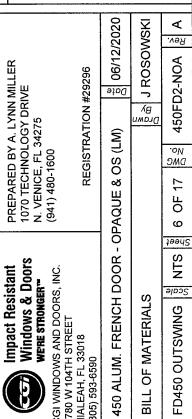
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0619.06

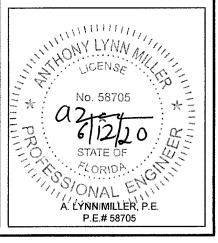
Expiration Date 10/25/2022

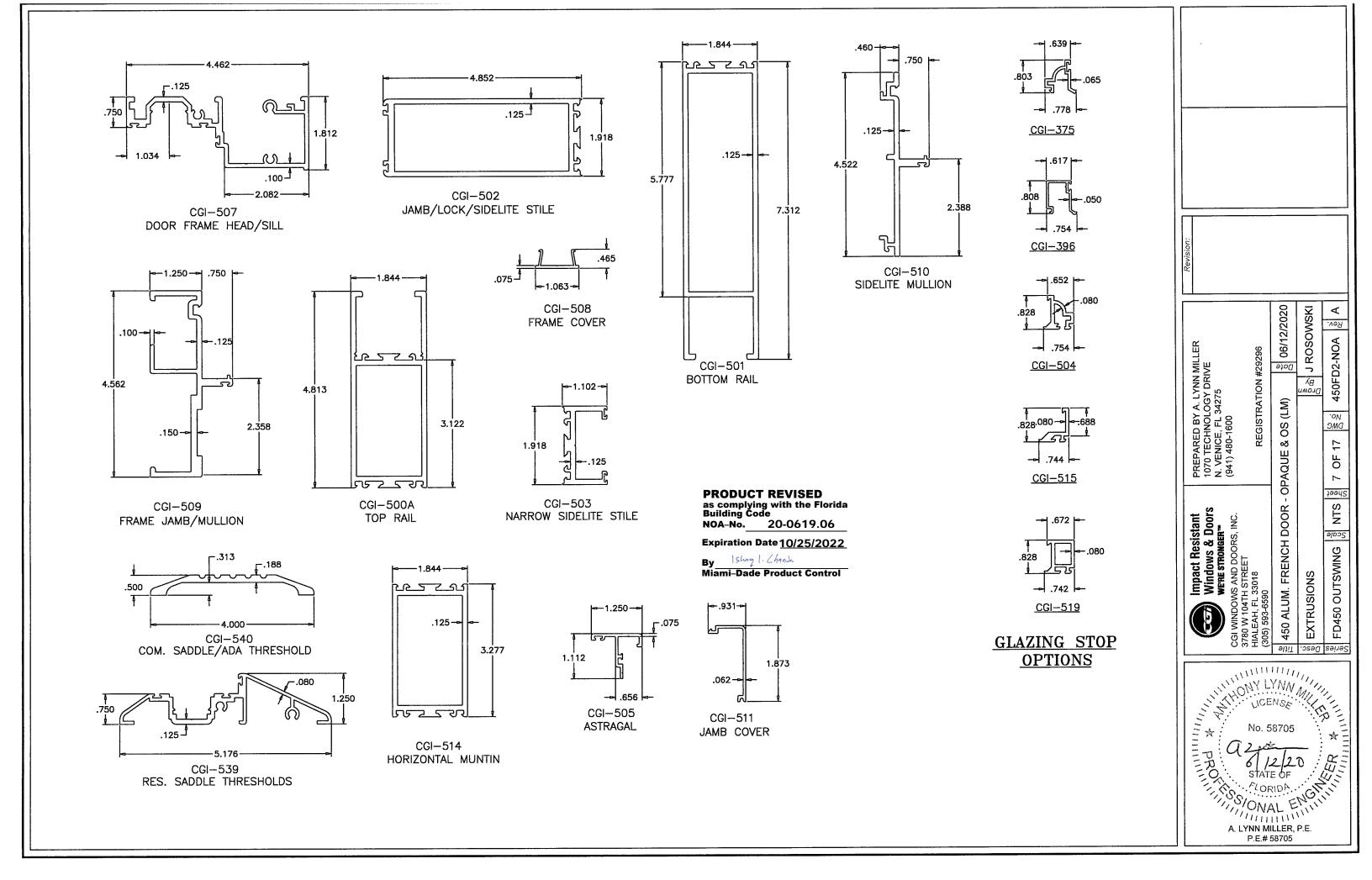
By Ishaq I. Chank
Miami-Dade Product Control

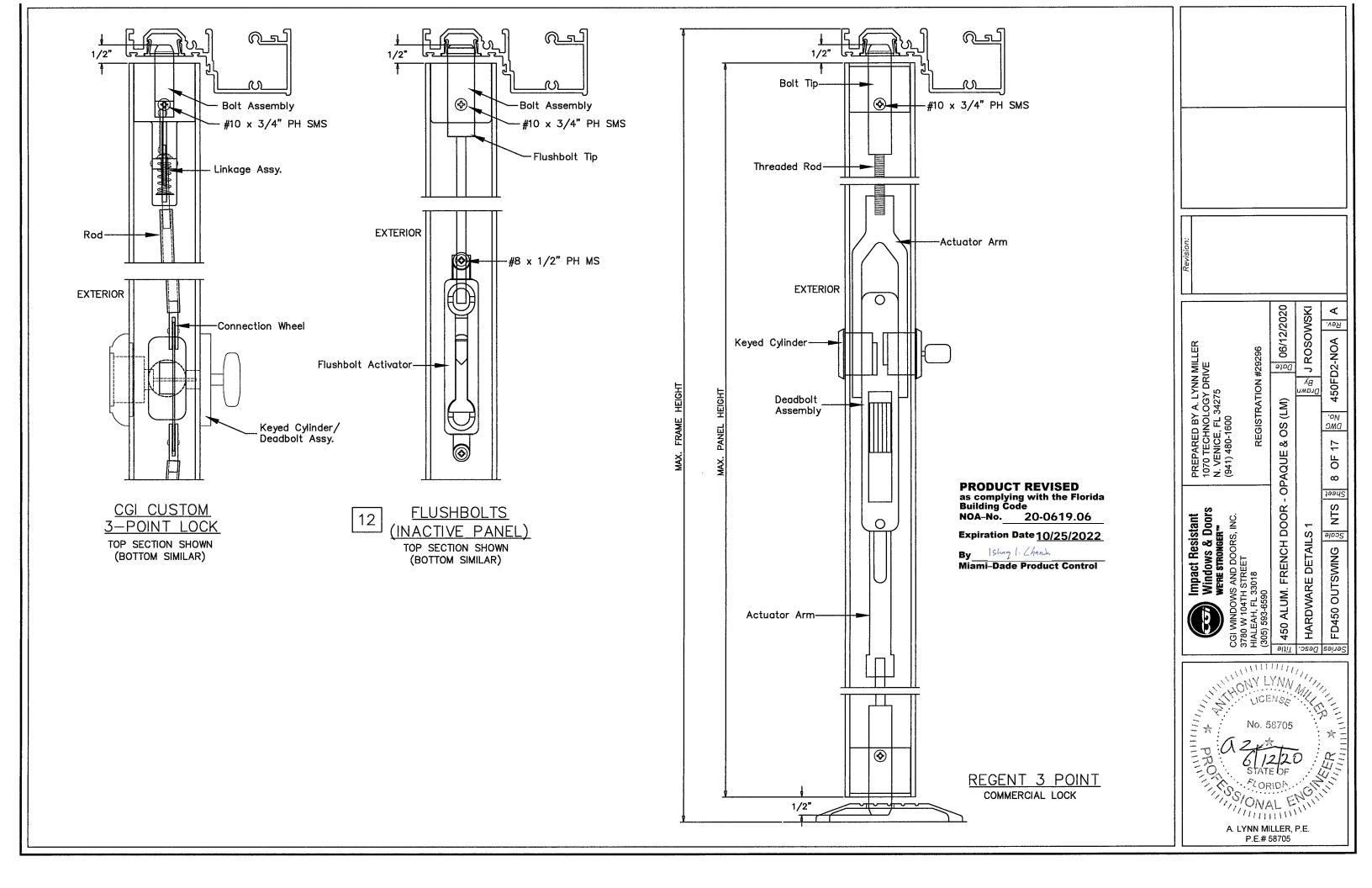
Material	Min. F _y	Min. F _u
#14 Steel Screw, Gr 5	81 ksi	105 ksi
1/4" Elco UltraCon	155 ksi	177 ksi
1/4" DeWalt UltraCon+	148 ksi	164 ksi
5/16" Elco UltraCon	155 ksi	177 ksi
5/16" DeWalt UltraCon+	155 ksi	177 ksi
6063-T5 Aluminum	16 ksi	22 ksi
A36 Steel	36 ksi	58 ksi
Gr. 33 Steel Stud	33 ksi	45 ksi

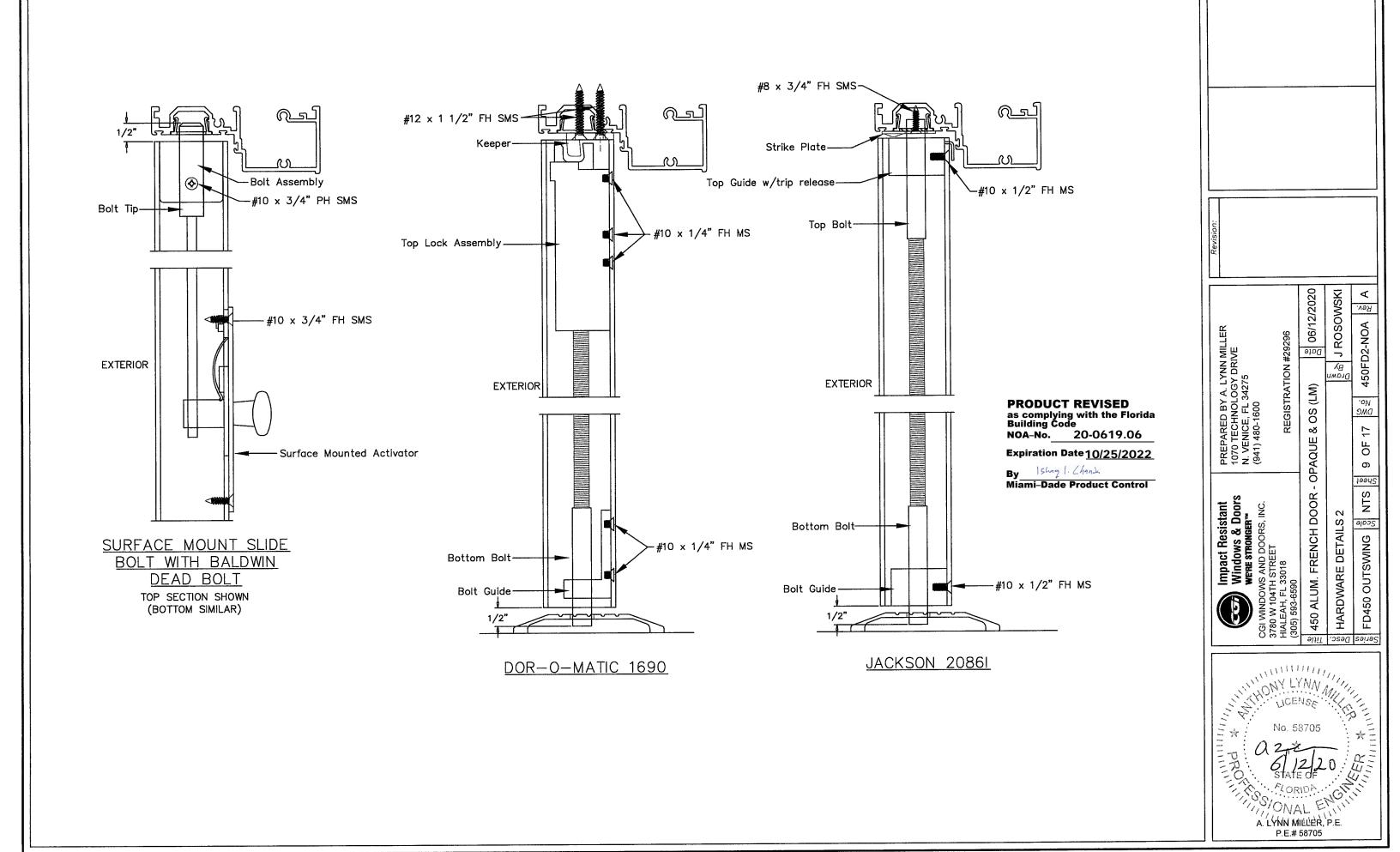


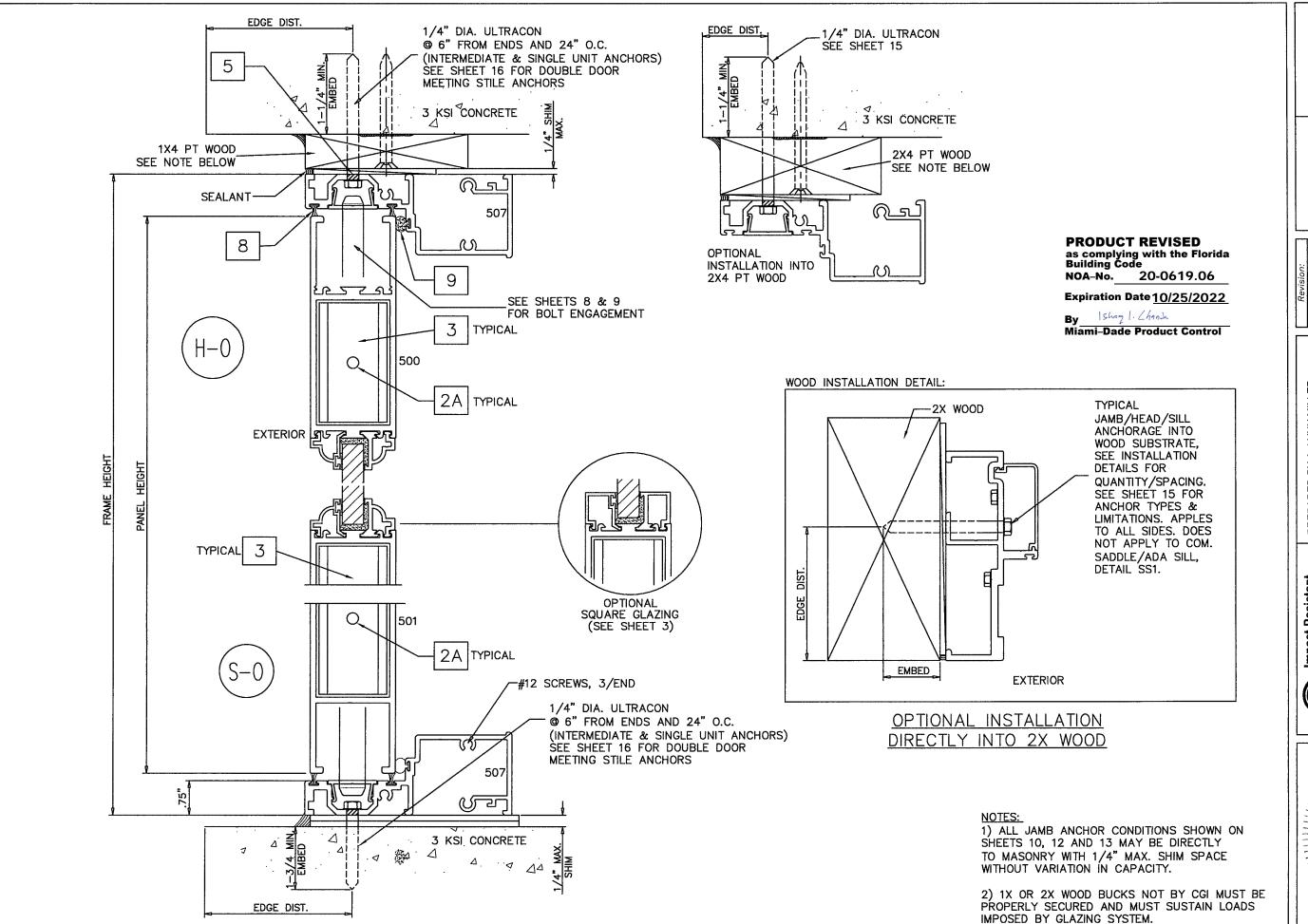












ADDED WOOD INSTALLATION DETAIL - JR -6/11/20

g 06/12/2020

J ROSOWSKI

Drawn By

450FD2-NOA

No.

17

OF

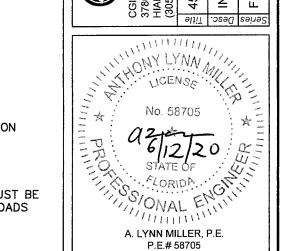
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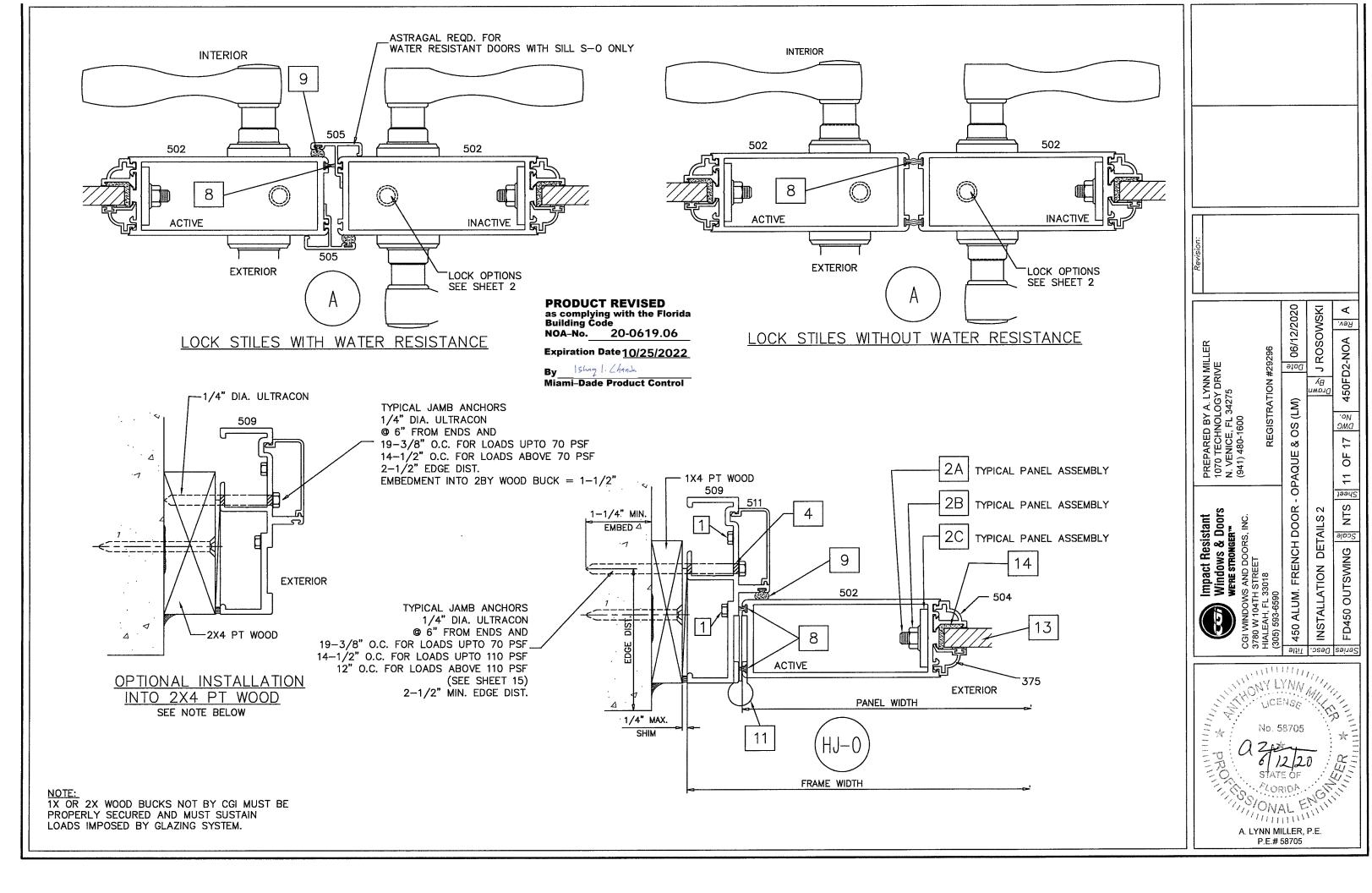
Sheet

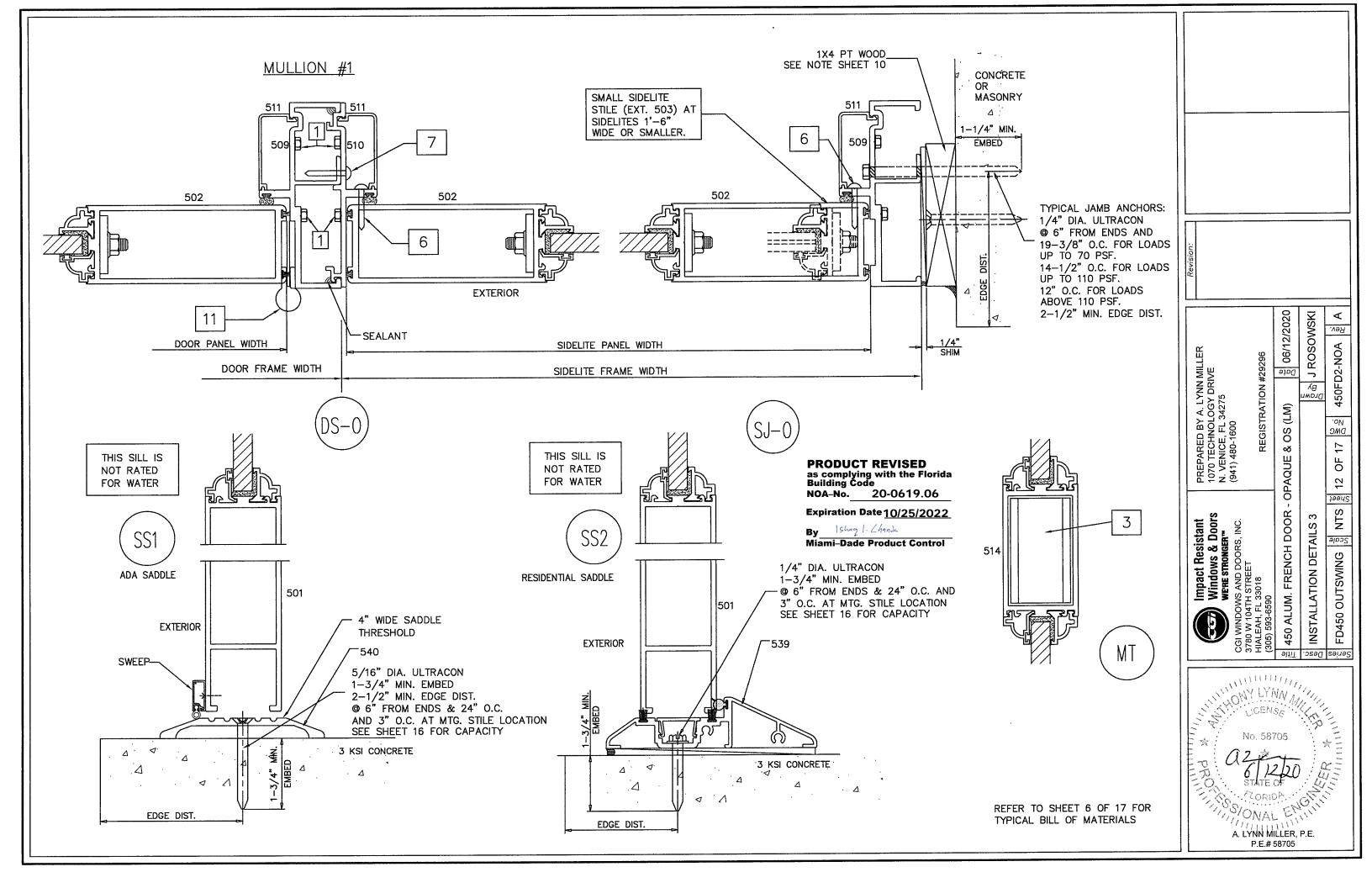
NTS

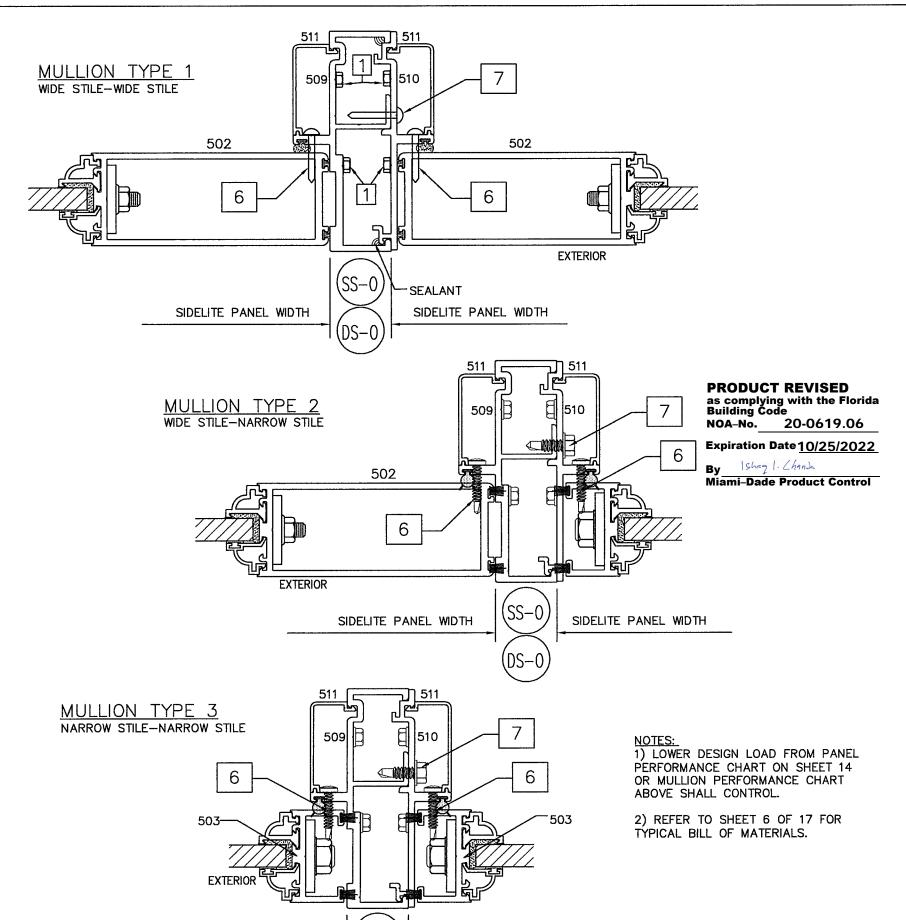
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 Windows & Doors
Windows & Boors
WERE STRONGER™
INDOWS AND DOORS, INC.

450 ALUM. FRENCH DOOR - OPAQUE & OS (LM) **INSTALLATION DETAILS 1** FD450 OUTSWING Scale









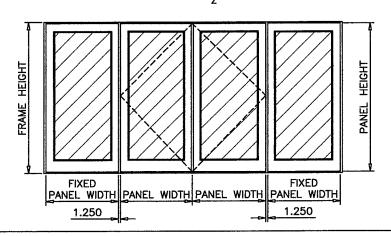
SIDELITE PANEL WIDTH

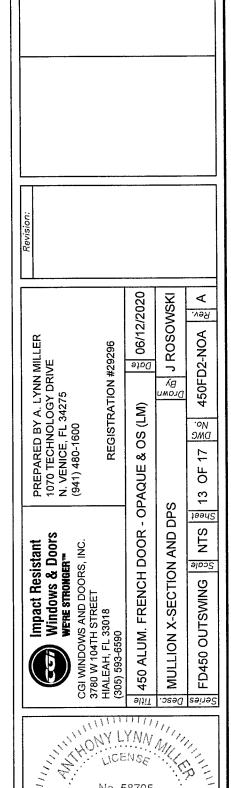
SIDELITE PANEL WIDTH

NOMINAL 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		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	1	100.0	110.0	100.0	110.0	100.0	110.0	
2/0	100 7/4"	100.0	110.0	100.0	104.1	-	T -	
2/6	108-3/4"	98.1	98.1	70.0	70.0	-	T -	
3/0		82.9	82.9	-	-	_	-	
1/6		70.0	70.0	70.0	70.0	100.0	110.0	
2/0	114 7/4"	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	100 7/4"	70.0	70.0	70.0	70.0	_	_	
2/6	120-3/4"	70.0	70.0	-	-	_	_	
3/0		59.9	59.9	_	-	_	-	

MULLION PERFORMANCE CHART

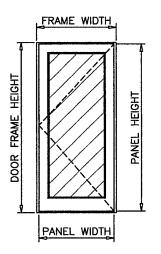
WIDTH (W) = $\frac{\text{DOOR PANEL} + \text{FIXED PANEL}}{2}$ + 1.250

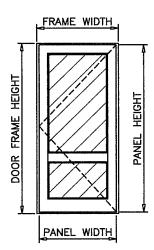


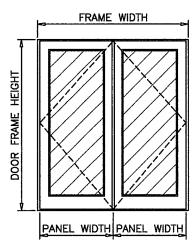


A. LYNN MILLER, P.E.

P.E.# 58705







product revised
as complying with the Florida
Building Code
NOA-No. 20-0619.06

Expiration Date 10/25/2022

By | Shan | Chank
Miami-Dade Product Control

NOTES:

1) FOR SINGLE OR DOUBLE LEAF DOORS AND SINGLE SIDELITES CAPACITY SEE CHART ON THIS SHEET.

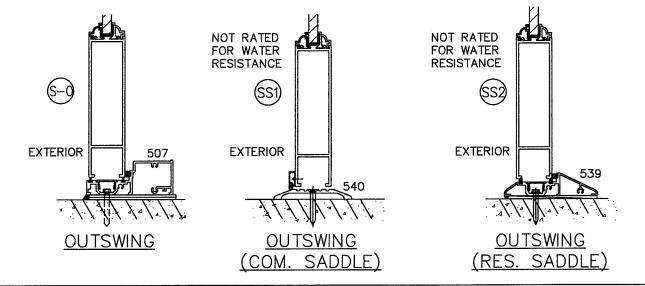
- 2) SEE BELOW FOR THRESHOLD TYPES.
- 3) SEE SHEET 2 FOR LOCK CAPACITIES FOR SINGLE AND DOUBLE DOORS.
- 4) SEE SHEET 13 FOR MULLION TYPES AND DESIGN LOAD CAPACITY.
- 5) SEE CHART ON SHEET 15 FOR MULLION ANCHORS CAPACITY.
- 6) SEE CHART ON SHEET 16 FOR MTG. STILE ANCHORS AT DOUBLE DOOR.
- 7) LOWEST VALUE FROM THESE CHARTS WILL APPLY TO ENTIRE ASSEMBLY.

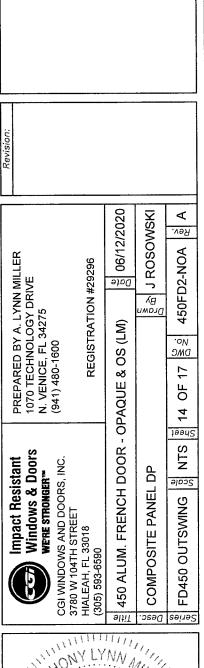
PANEL PERFORMANCE CHART FOR SINGLE & DOUBLE DOORS & SINGLE SIDELITES (NARROW STILE SIDELITES LIMITED TO 18" OR LESS)

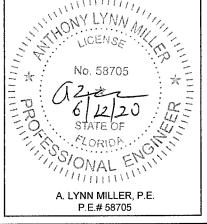
DESIGN LOAD CAPACITY - PSF

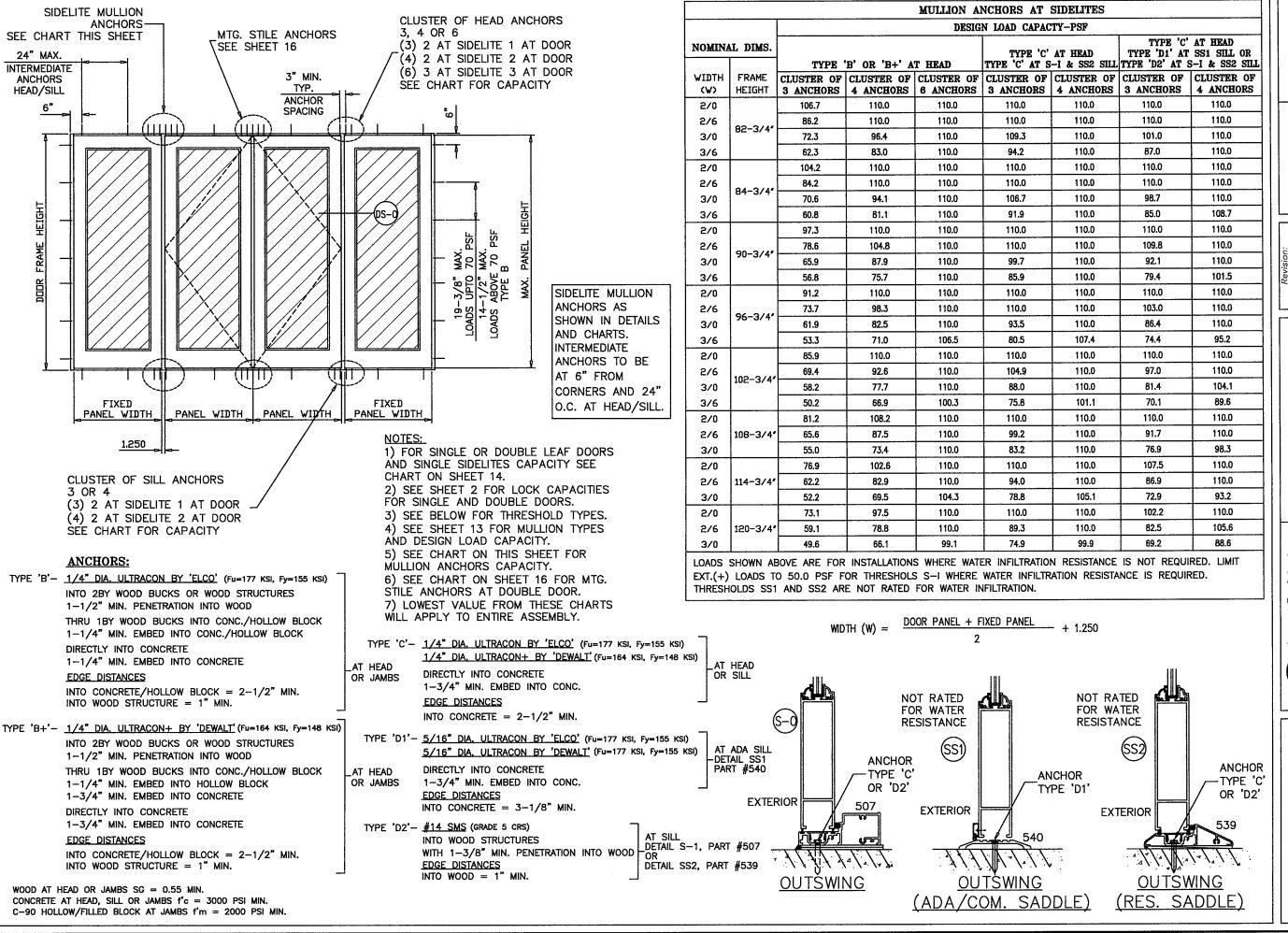
NOMINAL DIMS.		7/16" COMPOSITE PANELS 1" COMPOSITE PANELS		
	ME WIDTH FRAME WIDTH FRAME			
(X)	(XX)	HEIGHT	EXT. (+)	INT. (-)
26-9/16*	50-1/2"	}	100.0	110.0
32-9/16*	62-1/2"	82-3/4"	100.0	110.0
38-9/16"	74-1/2"		100.0	110.0
44-9/16"	86-1/2"		94,2	94,2
26-9/16*	50-1/2 *		100,0	110.0
32-9/16*	62-1/2"	84-3/4"	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 "	90-3/4*	100.0	110.0
32-9/16*	62-1/2"		100,0	110.0
38-9/16*	74-1/2*		100.0	110.0
44-9/16*	86-1/2*		94,2	94.2
26-9/16*	50-1/2*	96-3/4*	100.0	110.0
32-9/16*	62-1/2"		100.0	110.0
38-9/16*	74-1/2"		100.0	110.0
44-9/16"	86-1/2 *		59.9	59.9
26-9/16*	50-1/2 "		100.0	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 DOORS USING THRESHOLDS S-O IN ANY CONDITION AND SS1 & SS2 WHERE WATER INFILTRATION REQUIREMENTS ARE NOT APPLICABLE.









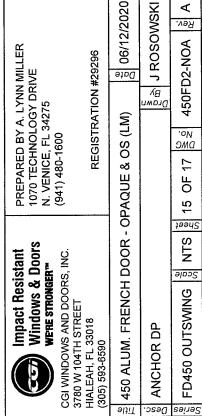
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0619.06

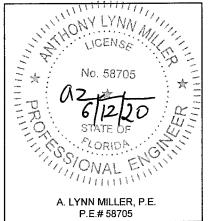
Expiration Date 10/25/2022

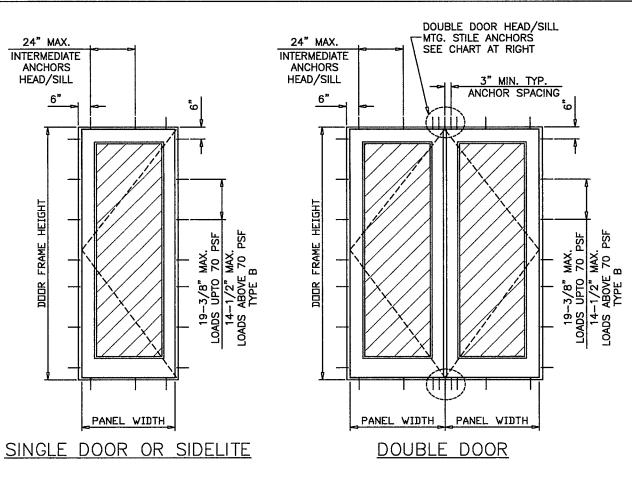
By Ishaq I. Chank

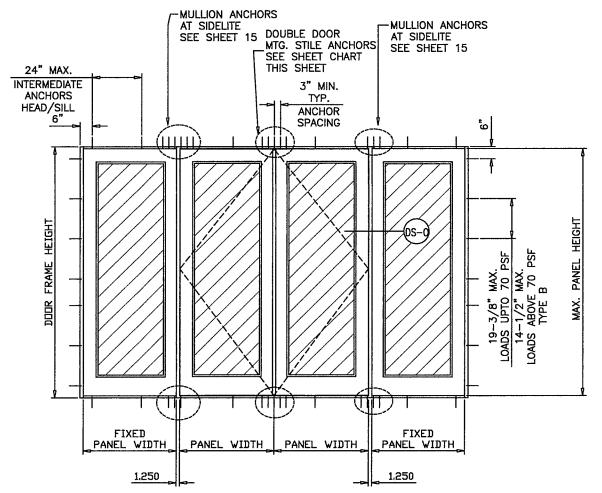
Miami-Dade Product Control

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



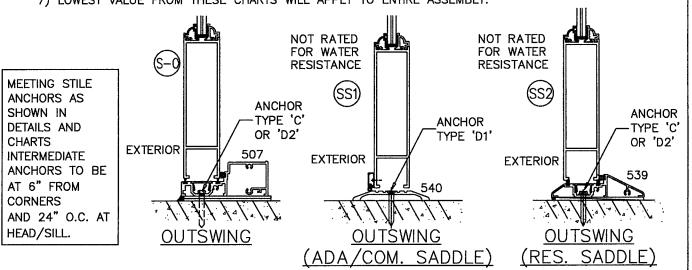






MTG. STILE ANCHORS AT DOUBLE DOORS									
		DESIGN LOAD CAPACTY-PSF							
	L DIMS.	TYPE 'B' OR 'B+' AT HEAD				AT HEAD	TYPE 'C' AT HEAD TYPE 'D1' AT SS1 SILL OR TYPE 'D2' AT S-I & SS2 SILL		
FRAME WIDTH (XX)	FRAME HEIGHT	CLUSTER OF 3 ANCHORS	CLUSTER OF 4 ANCHORS			CLUSTER OF 4 ANCHORS		CLUSTER OF 4 ANCHORS	
50-1/2 *		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"	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*		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*		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*		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*		73.1	97.5	110.0	110.0	110.0	85.4	110.0	
62-1/2"	120-3/4*	59.1	78.8	98.5	89.3	110.0	69.0	92.0	
74-1/2*		49.6	66.1	82.6	74.9	99.9	57.9	77.2	

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



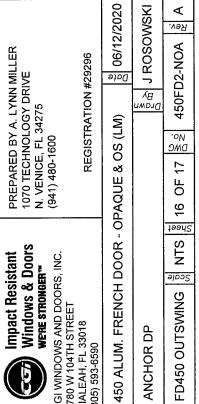
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0619.06

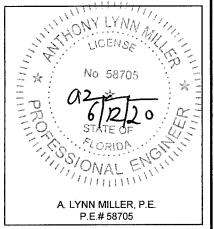
Expiration Date <u>10/25/2022</u>

By Shag 1. Chands

Miami-Dade Product Control

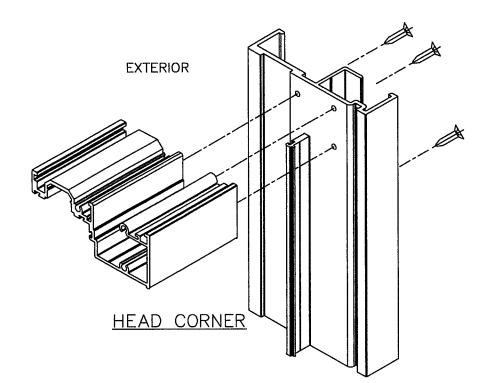
ADDED ANCHOR TYPE, & REFORMATTED - JR - 6/11/20

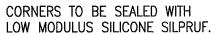


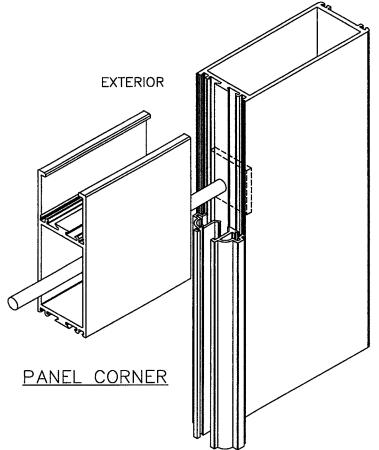


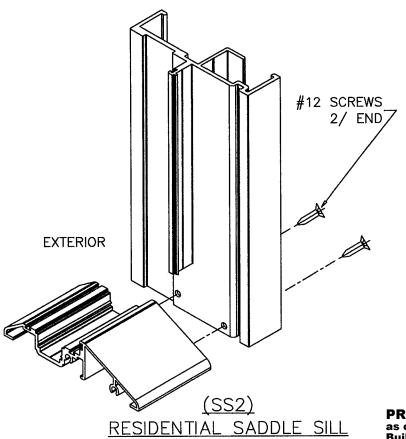
Series Desc. Title

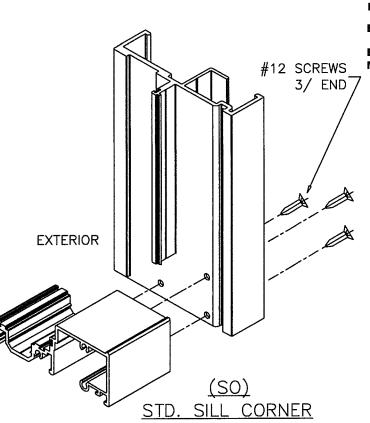
CORNER DETAILS

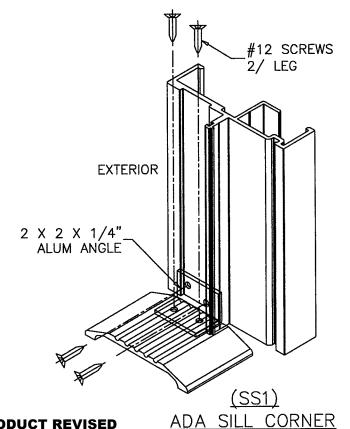






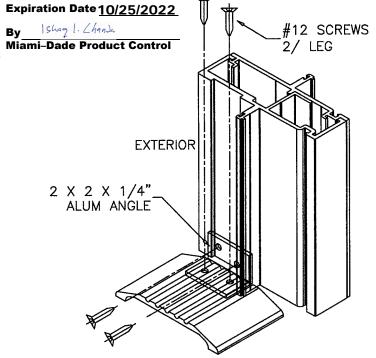






PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0619.06

Expiration Date 10/25/2022



ADA SILL @ MULLION

