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)

CGI Windows & Doors, Inc.
10100 N. W. 25th Street
Miami, Fl. 33172

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).
This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

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

APPROVAL DOCUMENT: Drawing No.**W98-01 Rev O**, titled "Series 450 Outswing Doors & Sidelites", sheets 1, 1.1, 1.2, 1.3, 1.4, 2, 2.1, 2.2, 2.3, 3, 3.1, 4, 5, 6, 7, 7.1 and 7.2 of 7, prepared by Al-Farooq Corporation, dated 10/27/97 and last revised on 09/21/17, signed and sealed by Javad Ahmad, 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. See Design Pressure ratings in sheets **1.1**, **5**, **6**, **7** and **7.1** for unit sizes Vs lock options, mullion type, door/ sidelite, glass / sill types and anchors. Lower Design Pressure shall control. The XX door in sheet **1.3** is a standalone unit.
2. Sills (threshold) types SS-1 & SS-2 are not rated for water infiltration. See thresholds (sills) and glass type **A1** (True muntin) limitations notes, in sheet **6**. Lock **10D** or **10E** is limited to max 38-9/16 W x 94-7/8 H door.
3. See Partial 7/16" & 1" Composite panels in sheet **6**. Narrow stile sidelites are limited to **18**" or less.
4. The frame are 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 **revises #16-0329.04** consists of this page 1 and evidence pages E-1, E-2 & E-3, as well as approval document mentioned above.
The submitted documentation was reviewed by **Jorge M. Plasencia, P.E.**

MIAMI-DADE COUNTY APPROVED 12/27/2017

NOA No. 17-1011.12
Expiration Date: November 09, 2021
Approval Date: January 04, 2018

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.**W98-01 Rev M**, titled "Series 450 Outswing Doors & Sidelites", sheets 1, 1.1, 1.2, 1.3, 1.4, 2, 2.1, 2.2, 2.3, 3, 3.1, 4, 5, 6, 7, 7.1 and 7.2 of 7, prepared by Al-Farooq Corporation, dated 10-27-97 and last revised on 03-22-16, signed and sealed by Javad Ahmad, P.E.

B. TESTS (Submitted under files #**14-1103.08** /#**12-0706.03**/#**11-1025.02**/#**09-0723.04**)

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

Along with manufacturer's parts and section drawing marked-up drawings of aluminum In swing / Outswing door w/wo sidelites, by Hurricane Testing Laboratory, Inc., Test Report No. **HTL-0080-0304-11** dated 11/28/2011 and **HTL-0080-0902-11**, signed and sealed by Vinu J. Abraham, P.E.

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

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

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

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

Jorge M. Piasencia, P.E.
Product Control Unit Supervisor
NOA No 17-1011.12
Expiration Date: November 09, 2021
Approval Date: January 04, 2018

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (continued):

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 (Submitted under files #**14-1103.08**)

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 #**14-1103.08**)

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.

Jorge M. Plasencia, P.E.
Product Control Unit Supervisor
NOA No 17-1011.12
Expiration Date: November 09, 2021
Approval Date: January 04, 2018

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHER

1. This NOA **revises & renews #14-1103.08**, expiring on November 09, 2021.
2. Hardware cut sheets verified and marked-up by the Architectural Testing (former Hurricane Testing lab).
3. Test proposal dated 12/16/14 approved by RER and Test proposal # **10-0940**, dated 11/17/10 approved by BNC.

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No.**W98-01 Rev O**, titled "Series 450 Outswing Doors & Sidelites", sheets 1, 1.1, 1.2, 1.3, 1.4, 2, 2.1, 2.2, 2.3, 3, 3.1, 4, 5, 6, 7, 7.1 and 7.2 of 7, prepared by Al-Farooq Corporation, dated 10/27/97 and last revised on 09/21/17, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)** and with **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

1. Notice of Acceptance No. **17-0712.03** issued to Eastman Chemical Company (MA) for the "**Saflex CP - Saflex and Saflex HP Composite Glass Interlayers w/ PET Core**", expiring on 12/11/18.
2. Notice of Acceptance No. **17-0712.05** issued to Eastman Chemical Company (MA) for the "**Saflex Clear and Color Glass Interlayers**", expiring on 05/21/21.

F. STATEMENTS

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

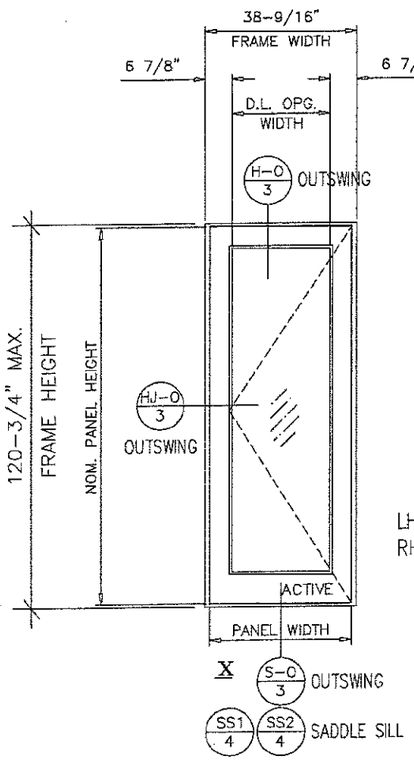
G. OTHER

1. This NOA **revises #16-0329.04**, expiring on 11/09/21.

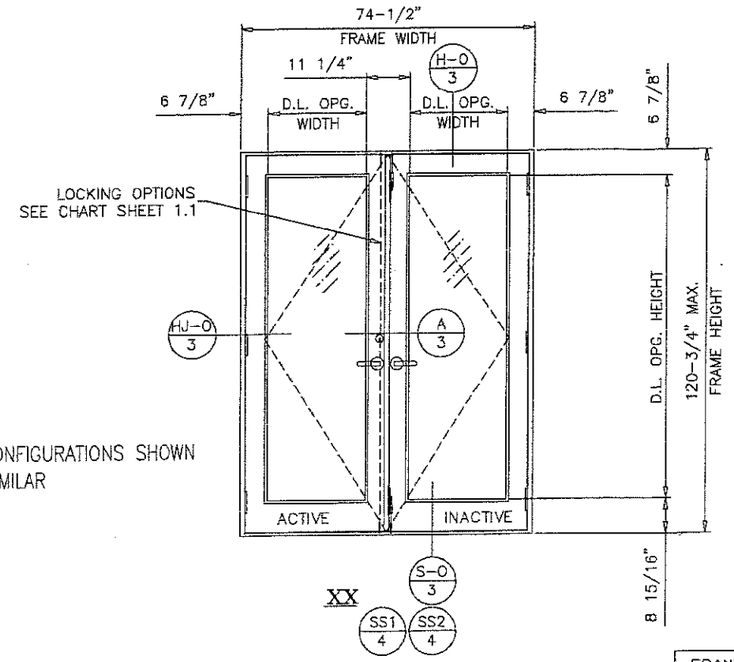
Jorge M. Plasencia, P.E.
Product Control Unit Supervisor
NOA No 17-1011.12
Expiration Date: November 09, 2021
Approval Date: January 04, 2018

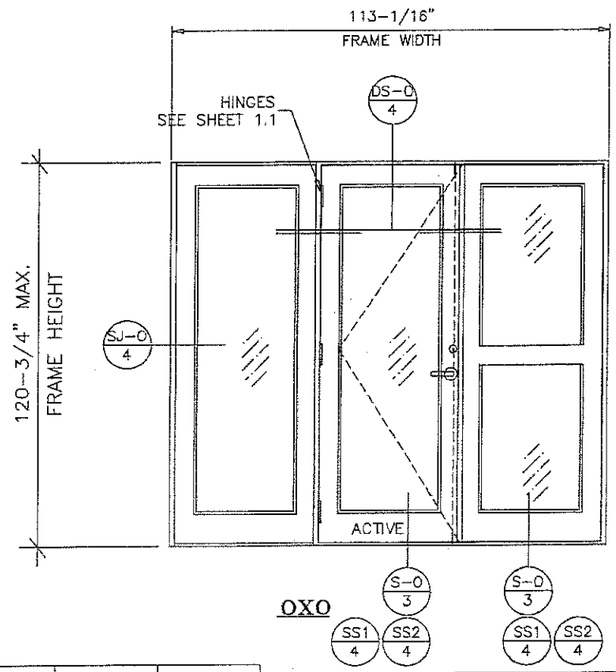
TYPICAL ELEVATIONS

SERIES 450 ALUMINUM OUTSWING GLAZED DOORS WITH OR WITHOUT SIDELITES



LH CONFIGURATIONS SHOWN
RH SIMILAR

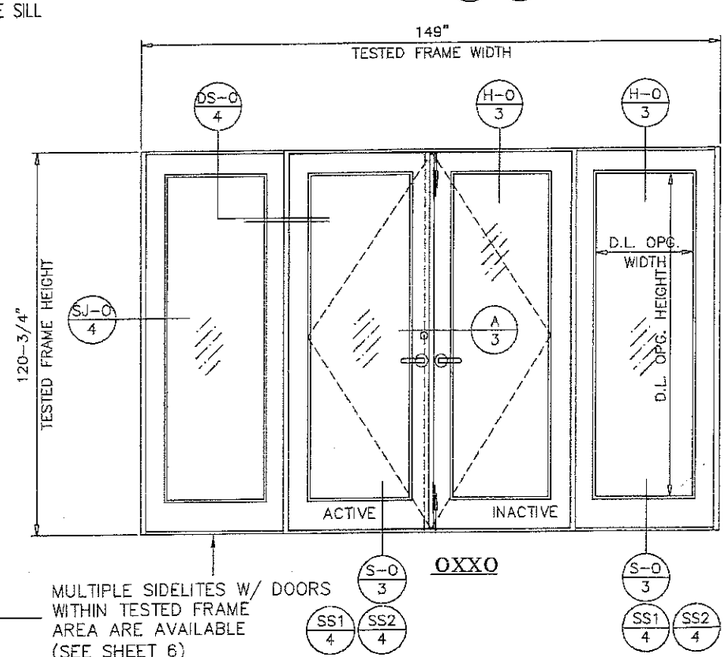




FRAME WIDTH (X)	FRAME WIDTH (XX)	DOOR/SIDELITE PANEL WIDTH	D.L. OPG. WIDTH
26-9/16"	50-1/2"	23-3/4"	12-3/4"
32-9/16"	62-1/2"	29-3/4"	18-3/4"
38-9/16"	74-1/2"	35-3/4"	24-3/4"
44-9/16"	86-1/2"	41-3/4"	30-3/4"

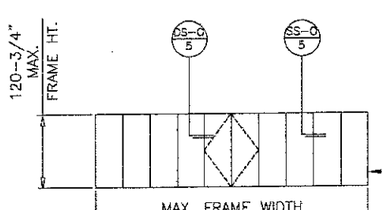
FRAME HEIGHT	DOOR/SIDELITE PANEL * HEIGHT	D.L. OPG. HEIGHT
82-3/4"	80-7/8"	67-3/8"
84-3/4"	82-7/8"	69-3/8"
90-3/4"	88-7/8"	75-3/8"
96-3/4"	94-7/8"	81-3/8"
102-3/4"	100-7/8"	87-3/8"
108-3/4"	106-7/8"	93-3/8"
114-3/4"	112-7/8"	99-3/8"
120-3/4"	118-7/8"	105-3/8"

* HEIGHTS FOR STD. THRESHOLD



MULTIPLE SIDELITES W/ DOORS WITHIN TESTED FRAME AREA ARE AVAILABLE (SEE SHEET 6)
125 SQ. FT. TESTED FRAME AREA

NOTE:
EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.



LEGEND

___ -O – OUTSWING DOOR DETAIL

☐ – ITEM DESCRIPTION (see sheet 2 of 7)

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-1011.12
Expiration Date 11/09/2021
By
Miami-Dade Product Control

FRAME HEIGHT = PANEL HEIGHT + 1-7/8" (STD. THRESHOLD)
FRAME HEIGHT = PANEL HEIGHT + 1-5/8" (ADA THRESHOLD)
FRAME WIDTH = PANEL WIDTH + 2.8125"

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2014 (5TH EDITION)/2017 (6TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

STEPS TO USE CHARTS:

1. DETERMINE WIND LOAD BASED ON PROVISIONS OF 2014/2017 FLORIDA BLDG. CODE.
2. DETERMINE WATER INFILTRATION REQUIREMENTS BASED ON PROVISIONS OF FBC.
3. SELECT A DOOR SYSTEM I.E. OUTSWING AND TYPE OF THRESHOLD FROM SHEET 6 AND LOCK OPTIONS FROM SHEET 1.1.
4. CHECK THE ALLOWABLE EXTERIOR AND INTERIOR LOADS FROM APPROPRIATE CHARTS ON SHEETS 1.1, 5 & 6.
   THE ALLOWABLE LOADS MUST MEET OR EXCEED THE DESIGN LOADS REQUIREMENTS.
5. SELECT AND CHECK ANCHORS TO MEET LOAD. (SEE SHEETS 7 & 7.1)
6. FOR MULLED SIDELITE REFER TO MULLION CAPACITY ON SHEET 5.
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.

DWG. NO.: W98-01

revisions:

M	05.13.15	REV. PER RER COMMENTS
N	03.21.16	NOTE ADDED
O	09.21.17	UPDATED TO 2017 FBC

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

CGI Windows and Doors, Inc.
10100 northwest 25 street miami, florida 33172

product : Series 450 Outswing Doors & Sidelites	
date : 10-20-97	sheet 1 of 7

TYPICAL ELEVATIONS

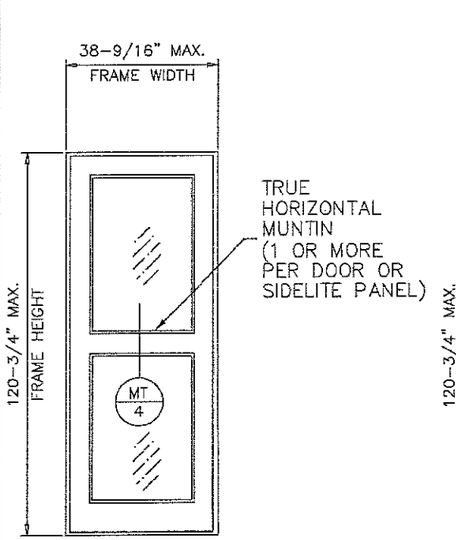
LOCK OPTIONS AND CAPACITY

	10A		10AA		10B		10C & 10CC		10D & 10E		10 F	
FRAME HEIGHT	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)
84−3/4"	90.0	90.0	100.0	110.0	100.0	110.0	65.0	65.0	80.0	80.0	100.0	110.0
96−3/4"	90.0	90.0	100.0	110.0	100.0	110.0	65.0	65.0	70.0	70.0	90.0	90.0
108−3/4"	−	−	100.0	110.0	100.0	110.0	−	−	−	−	90.0	90.0
120−3/4"	−	−	70.0	70.0	70.0	70.0	−	−	−	−	70.0	70.0

10A : COPPER CREEK W/ CGI 3 POINT
10AA : BALDWIN W/ CGI 3 POINT
10B : REGENT COMMERCIAL 3 POINT
10C : BALDWIN SINGLE POINT LOCK
10CC : COPPER CREEK SINGLE POINT LOCK
10D : DOR-O-MATIC SERIES 1690
10E : JACKSON SERIES 2085/2065
10F : SURFACE MOUNTED LOCK

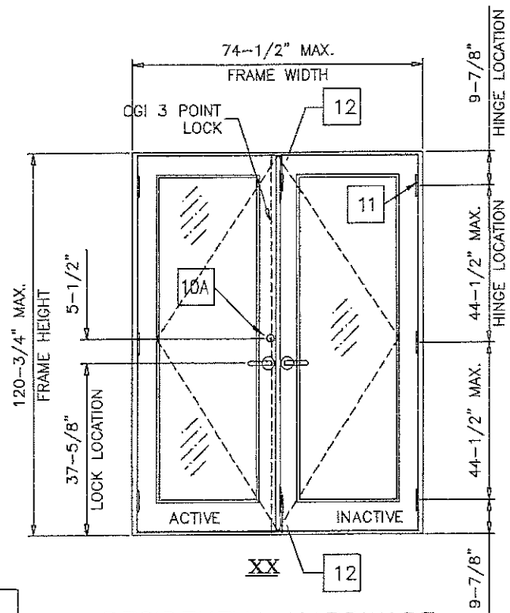
LEGEND
___ −O − OUTSWING DOOR DETAIL
□ − ITEM DESCRIPTION (see sheet 2 of 7)

LH CONFIGURATIONS SHOWN
RH SIMILAR (SEE SHEET 1 FOR SIZES)



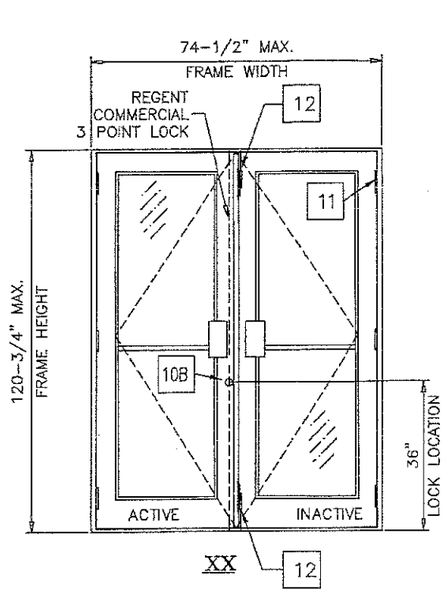
X OR O

OPTIONAL TRUE MUNTINS
DOOR OR SIDELITE



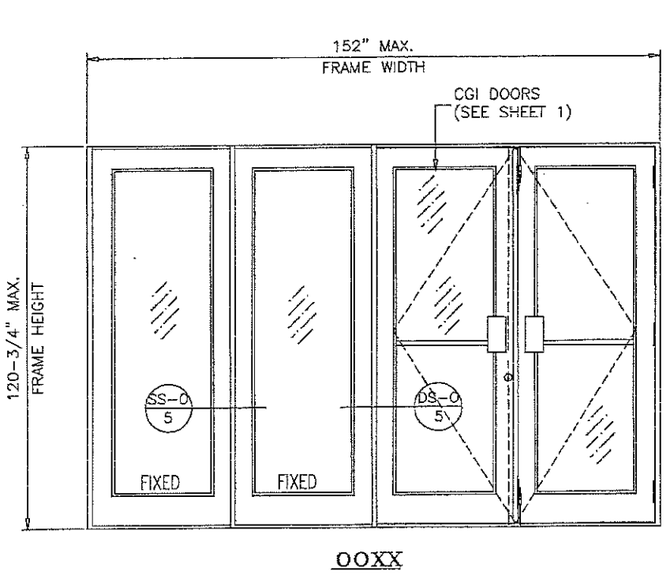
XX 12

RESIDENTIAL HARDWARE



XX 12

COMMERCIAL HARDWARE



OOXX

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

DOORS WITH 3 HINGES LIMITED TO 100 PSF

FRAME HEIGHT = PANEL HEIGHT + 1−7/8" (STD. THRESHOLD)
FRAME HEIGHT = PANEL HEIGHT + 1−5/8" (ADA THRESHOLD)
FRAME WIDTH = PANEL WIDTH + 2.8125"

HARDWARE DESCRIPTION

SEP 29 2017

M 05.13.15 REV. PER RER COMMENTS
N 03.21.18 NO CHANGE THIS SHEET
O 03.21.17 NO CHANGE THIS SHEET

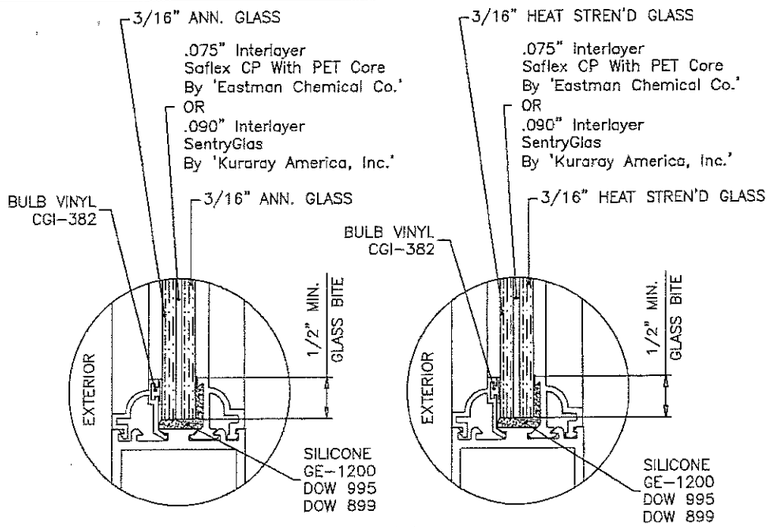
JAVAD AHMAD LICENSE NO. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-1011.12
Expiration Date 11/09/2021
By
Miami-Dade Product Control

DWG. NO.: W98−01

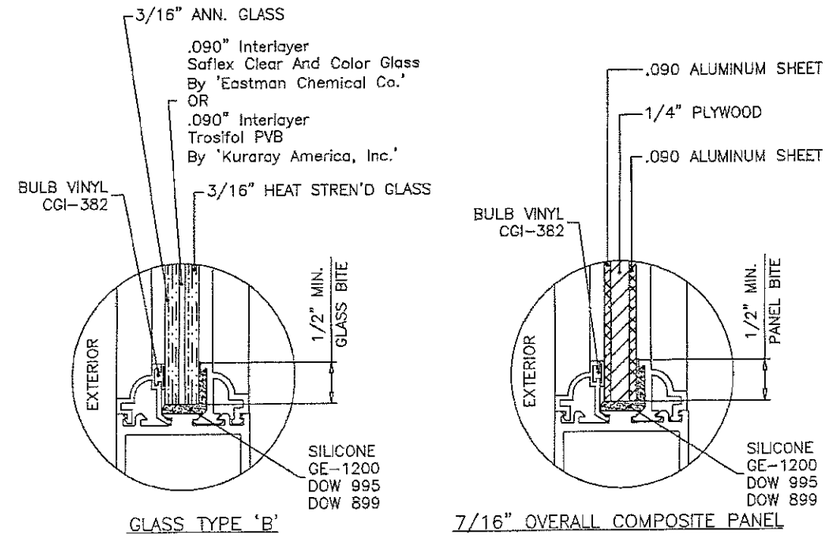
CGI
Windows and Doors, Inc.
10100 northwest 25 street miami, florida 33172

product : Series 450 Outswing Doors & Sidelites
date : 10−20−97 sheet 1.1 of 7



GLASS TYPE 'A'

7/16" OVERALL LAM. GLASS

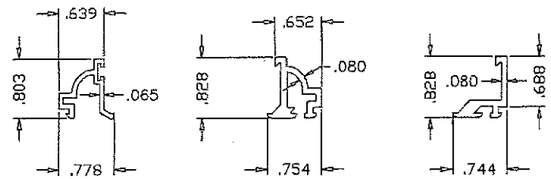


GLASS TYPE 'B'

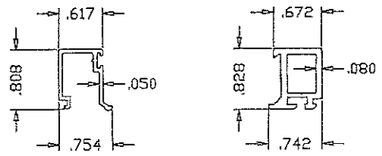
7/16" OVERALL LAM. GLASS

7/16" OVERALL COMPOSITE PANEL

GLAZING STOP OPTIONS

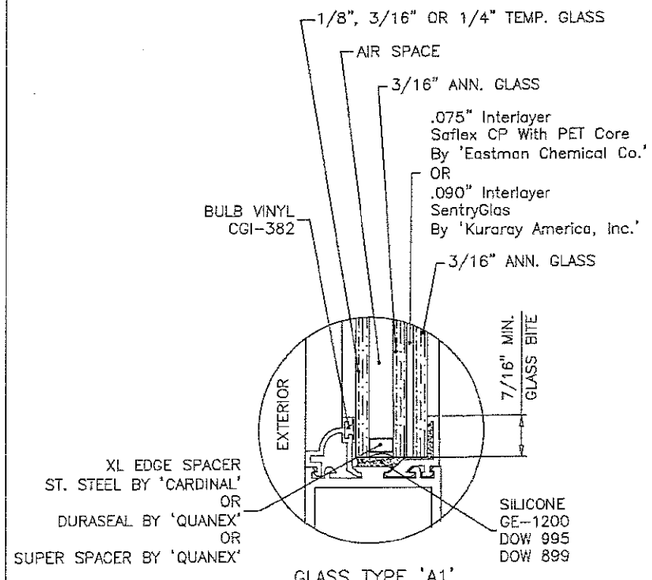


CGI-375 CGI-504 CGI-515



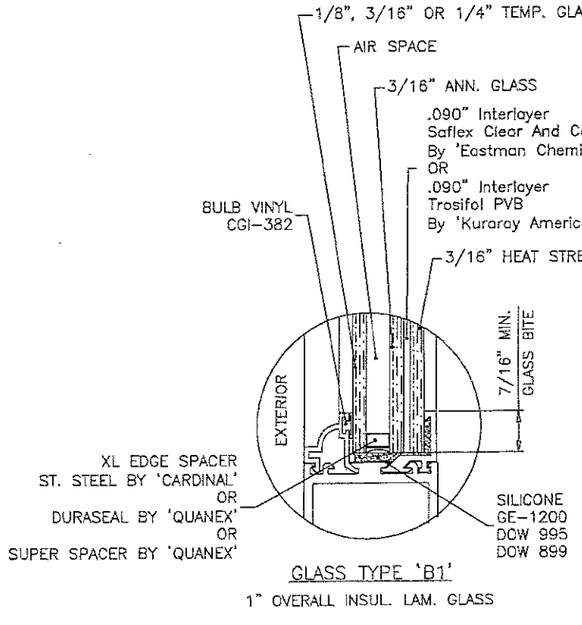
CGI-396 CGI-519

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



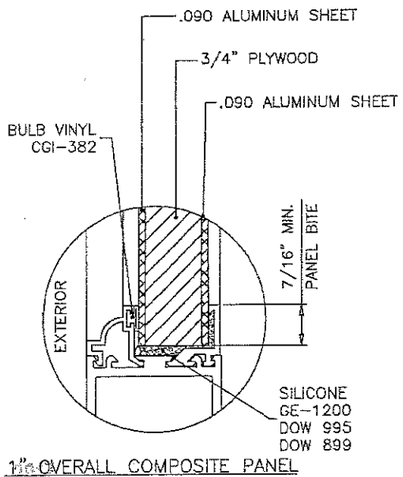
GLASS TYPE 'A1'

1" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'B1'

1" OVERALL INSUL. LAM. GLASS



1" OVERALL COMPOSITE PANEL

GLAZING OPTIONS

SEP 29 2017

M 05.13.15 NO CHANGE THIS SHEET
N 03.21.16 INSUL. GLASS REV.
O 09.21.17 INTERLAYER RENAMED

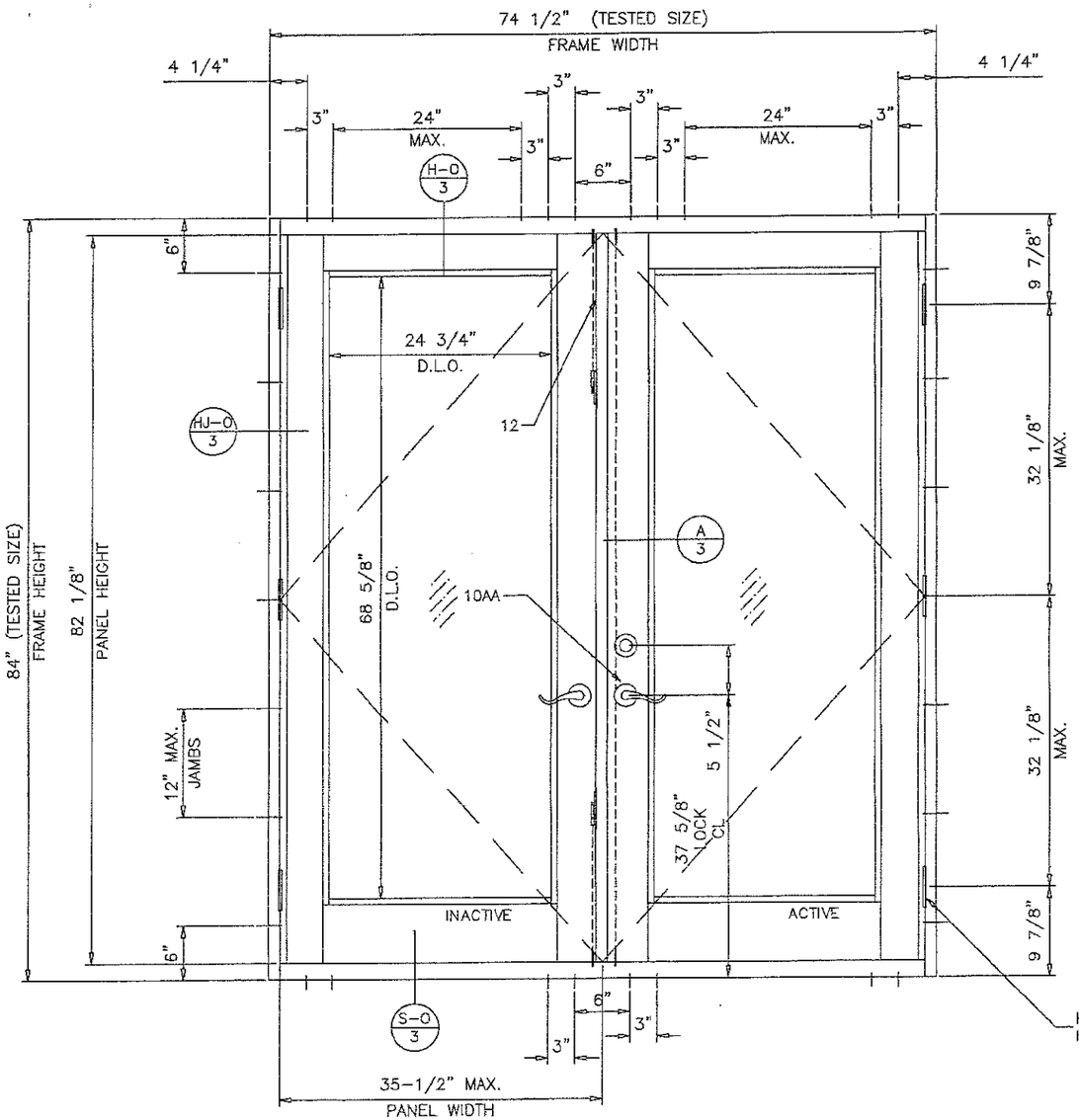
JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

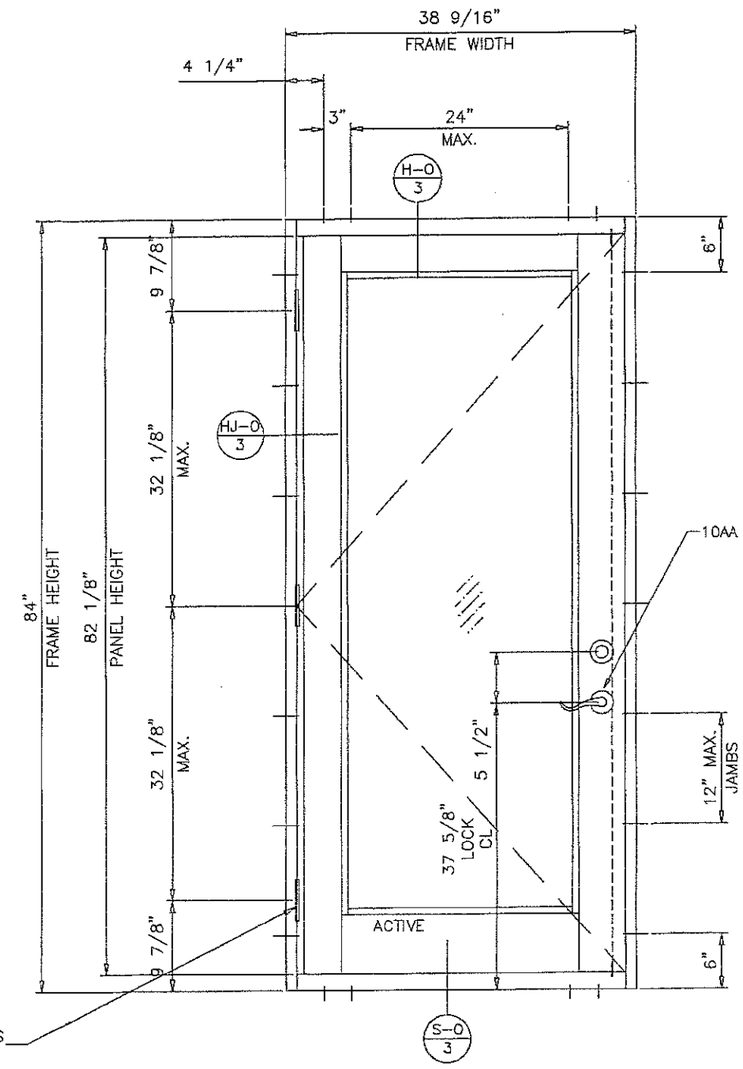
PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-1011.12
Expiration Date 11/09/2021
By
Miami-Dade Product Control

DWG. NO.: W98-01

CGI Windows and Doors, Inc.
10100 northwest 25 street miami, florida 33172

product : Series 450 Outswing Doors & Sidelites	
date : 10-20-97	sheet 1.2 of 7





NOTE:
THIS UNIT IS STAND ALONE UNIT TO BE USED AS 'X' OR 'XX' (OUTSWING) TO THE MAX. SIZE SHOWN.
WITH GLASS TYPE 'A' AND LOCKING MECHANISM '10AA' (BALDWIN 8200 DEADBOLT W/ CGI 3 POINT LOCK)
AND 'S-O' THRESHOLD 507.
THIS UNIT CAN NOT BE USED WITH SIDELITE OR MULLED.

LARGE MISSILE IMPACT

MAXIMUM DESIGN LOAD RATING =	+ 100.0
(FOR SIZES SHOWN ABOVE OR SMALLER UPTO CODE LIMIT)	- 132.0 PSF
GLASS TYPE 'A'	
LOCK OPTION 10AA CGI 3 POINT MECHANISM W/ BALDWIN SERIES 8200 DEAD BOLT	

LOADS SHOWN ABOVE ARE FOR ELEVATIONS SHOWN ON THIS SHEET ONLY.

SEP 29 2017

M 05.13.15 NO CHANGE THIS SHEET
N 03.21.16 NO CHANGE THIS SHEET
O 09.21.17 NO CHANGE THIS SHEET

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

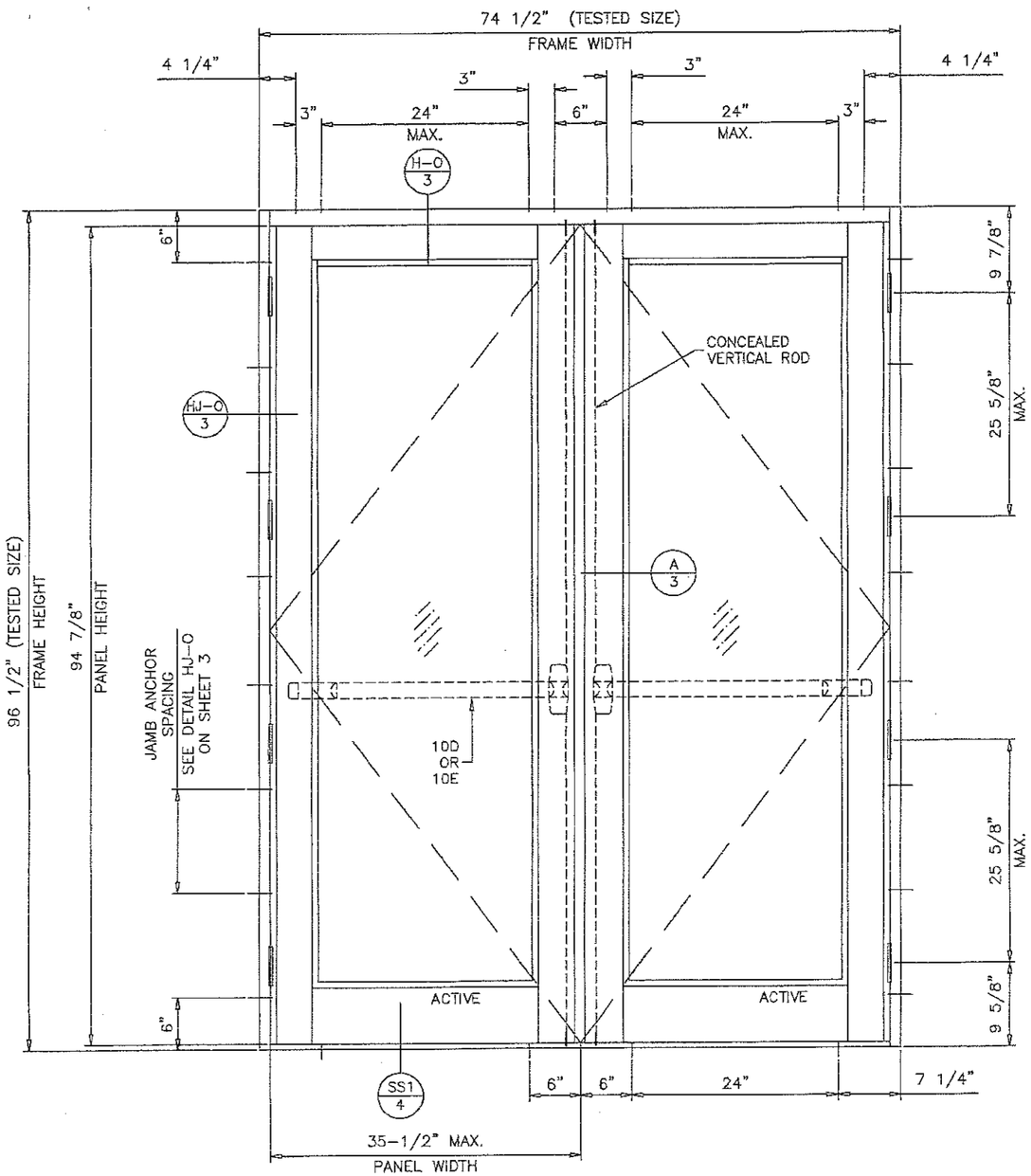
PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-1011.12
Expiration Date 11/09/2021
By
Miami-Dade Product Control

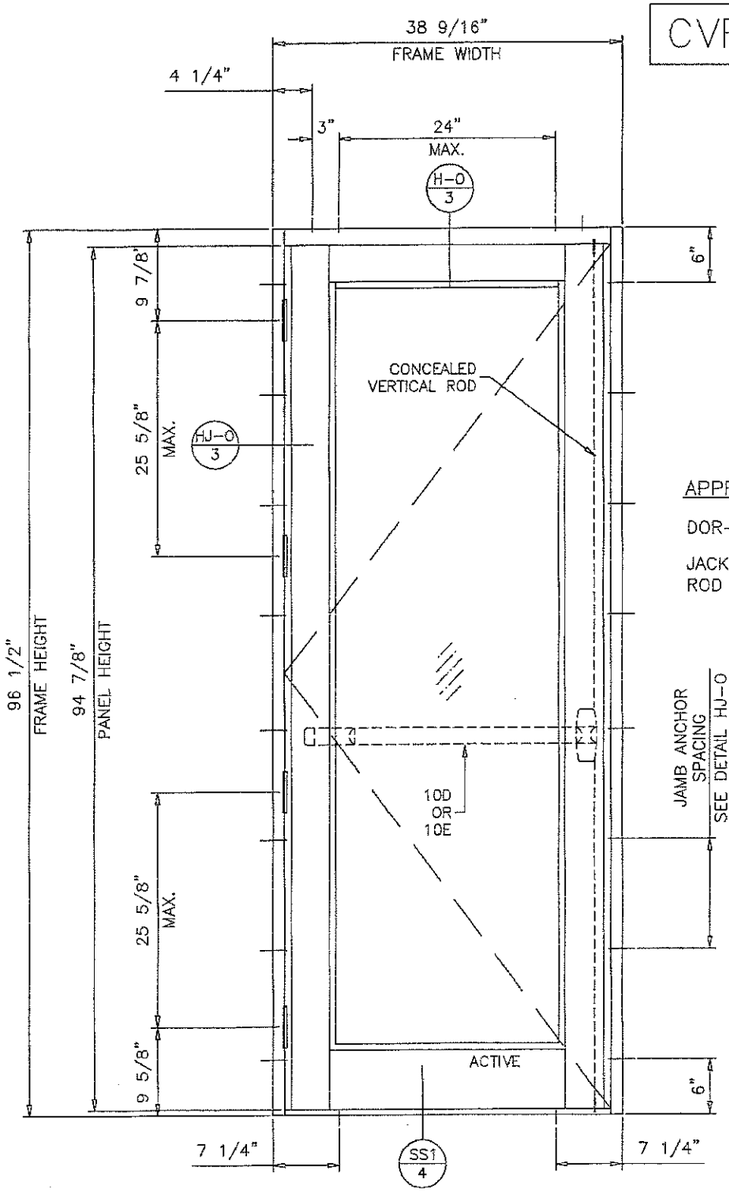
DWG. NO.: W98-01

CGI
Windows and Doors, Inc.
10100 northwest 25 street miami, florida 33172

product : Series 450 Outswing Doors & Sidelites
date : 10-20-97 sheet 1.3 of 7

CVR PANIC HARDWARE





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.

QUALIFIED WITH ALL GLASS TYPES SHOWN ON SHEET 1.2

LOCK OPTIONS 10D AND 10E

SEP 29 2017

M 05.13.15 NO CHANGE THIS SHEET
N 03.21.16 NO CHANGE THIS SHEET
O 09.21.17 NO CHANGE THIS SHEET

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-1011.12
Expiration Date 11/09/2021
By
Miami-Dade Product Control

DWG. NO.: W98-01

CGI Windows and Doors, Inc.
10100 northwest 25 street miami, florida 33172

product : Series 450 Outswing Doors & Sidelites

date : 10-20-97 | sheet 1.4 of 7

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.
10D	DOR-O-MATIC SERIES 1690 TOUCHBAR PANIC EXIT DEVICE WITH CONCEALED VERTICAL ROD SEE SHEET 1.4.
10E	JACKSON 20 SERIES PANIC EXIT WITH 2085/2086 CONCEALED VERTICAL ROD EXIT DEVICE SEE SHEET 1.4.
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 1.2 FOR GLAZING OPTIONS
14	SILICONE GE-1200, DOW 995, DOW 899
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 ADAPTOR

EXT. = 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.

SEP 29 2017

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

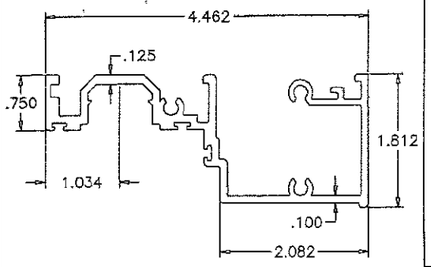
M	05.13.15	REV. PER RER COMMENTS
N	03.21.16	NO CHANGE THIS SHEET
O	09.21.17	NO CHANGE THIS SHEET

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-1011.12
Expiration Date 11/09/2021
By Miami-Dade Product Control

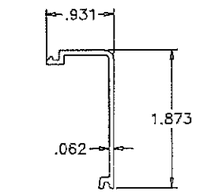
DWG. NO.: W98-01

CGI Windows and Doors, Inc.
10100 northwest 25 street miami, florida 33172

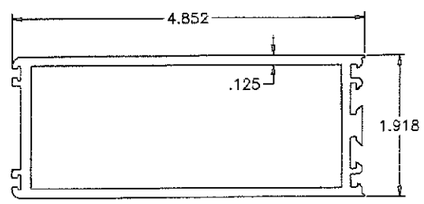
product :	Series 450 Outswing Doors & Sidelites	
date :	10-20-97	sheet 2 of 7



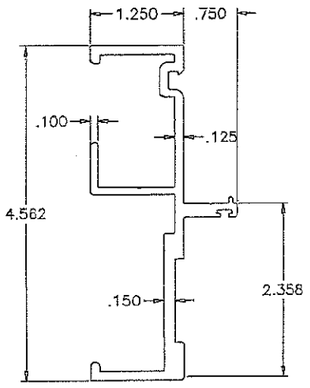
CGI–507
DOOR FRAME HEAD/SILL



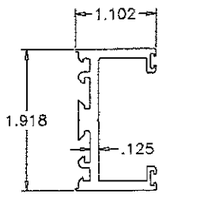
CGI–511
JAMB COVER



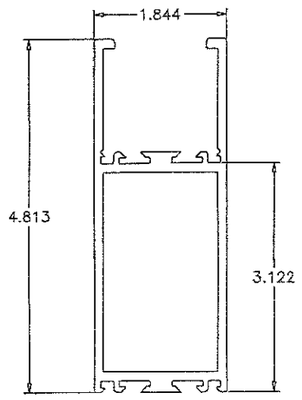
CGI–502
JAMB/LOCK/SIDELITE STILE



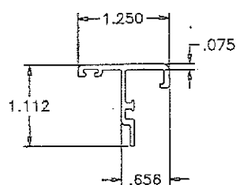
CGI–509
FRAME JAMB/MULLION



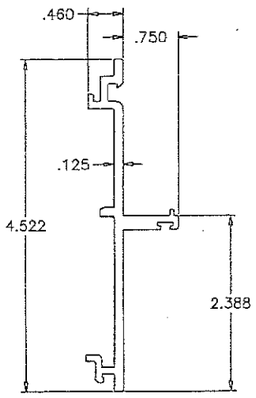
CGI–503
NARROW SIDELITE STILE



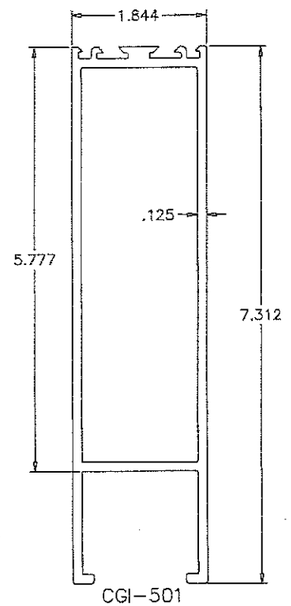
CGI–500A
TOP RAIL



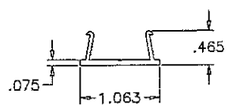
CGI–505
ASTRAGAL



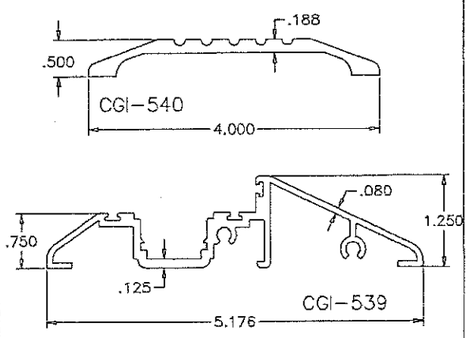
CGI–510
SIDELITE MULLION



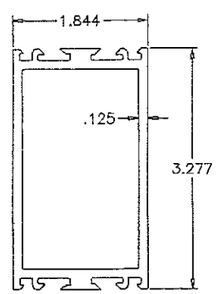
CGI–501
BOTTOM RAIL



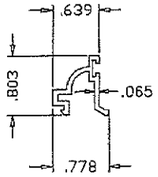
CGI–508
FRAME COVER



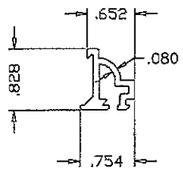
SADDLE THRESHOLDS



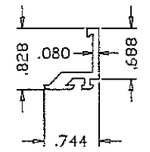
CGI–514
HORIZONTAL MUNTIN



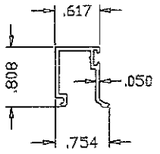
CGI–375



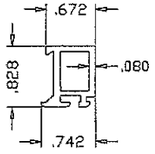
CGI–504



CGI–515



CGI–396



CGI–519

SEP 29 2017

M 05.13.15 NO CHANGE THIS SHEET
N 03.21.16 NO CHANGE THIS SHEET
O 09.21.17 NO CHANGE THIS SHEET

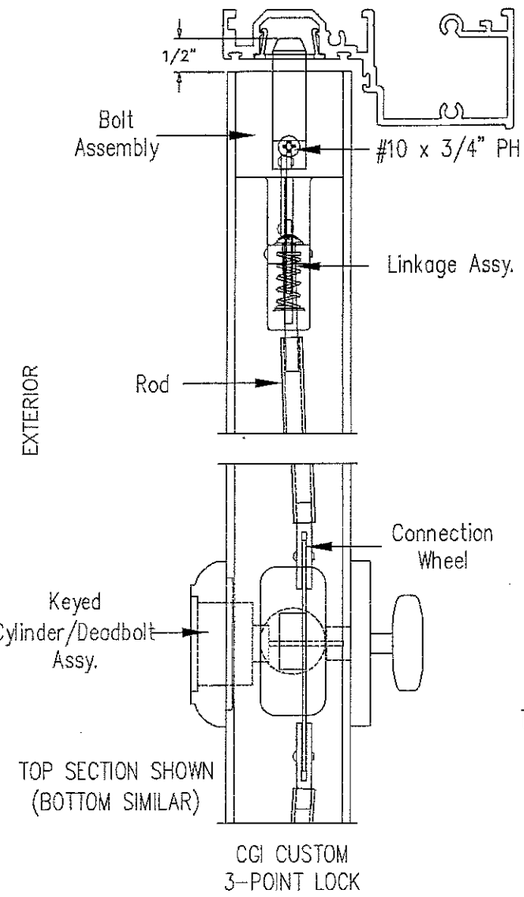
JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 17-1011.12
Expiration Date 11/09/2021
By Miami–Dade Product Control

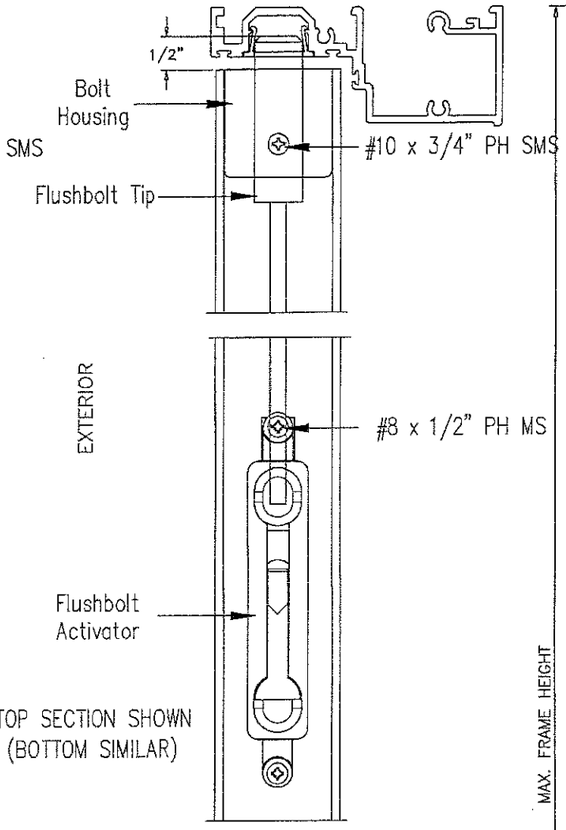
DWG. NO.: W98–01

CGI
Windows and Doors, Inc.
10100 northwest 25 street miami, florida 33172

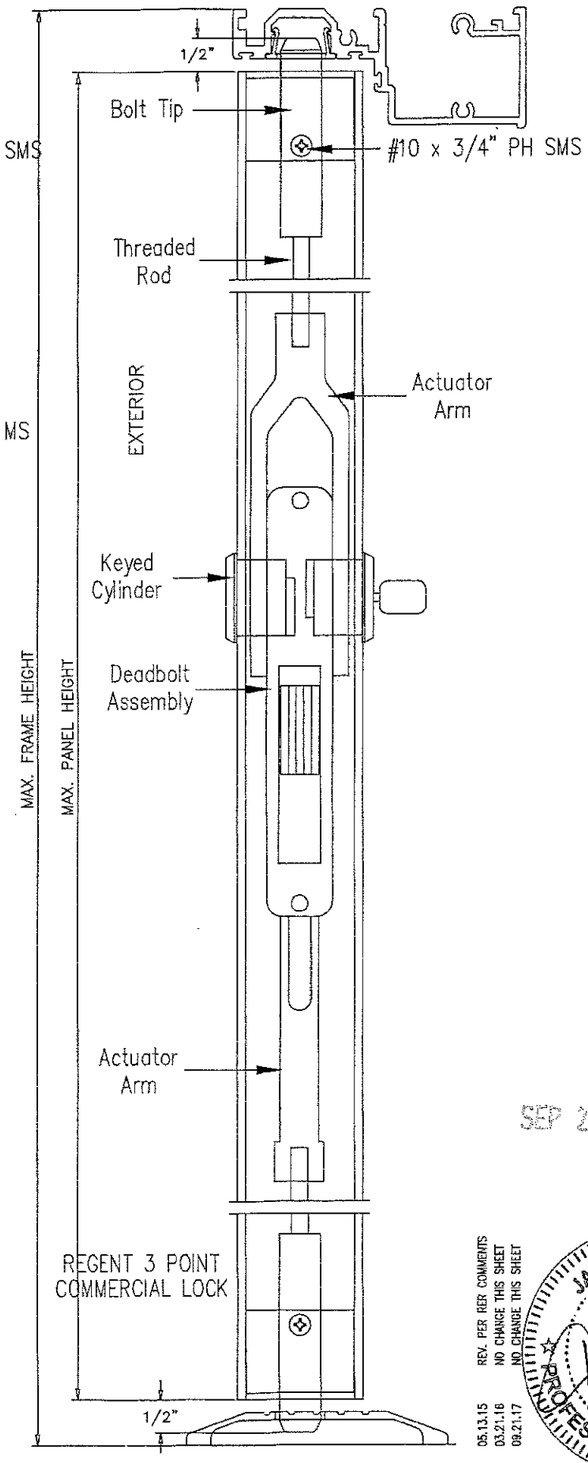
product :	Series 450 Outswing Doors & Sidelites	
date :	10–20–97	sheet 2.1 of 7

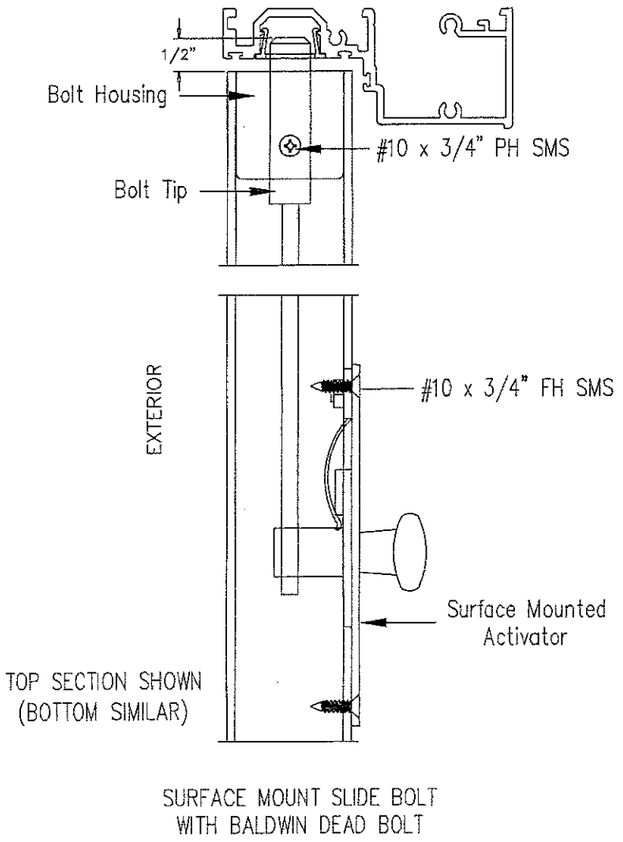


CGI CUSTOM 3-POINT LOCK



12 Flushbolts (Inactive Panel)





SURFACE MOUNT SLIDE BOLT WITH BALDWIN DEAD BOLT

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-1011.12
Expiration Date 11/09/2021
By Miami-Dade Product Control

SEP 29 2017

M 05.13.15 REV. PER RER COMMENTS
N 03.21.16 NO CHANGE THIS SHEET
O 09.21.17 NO CHANGE THIS SHEET

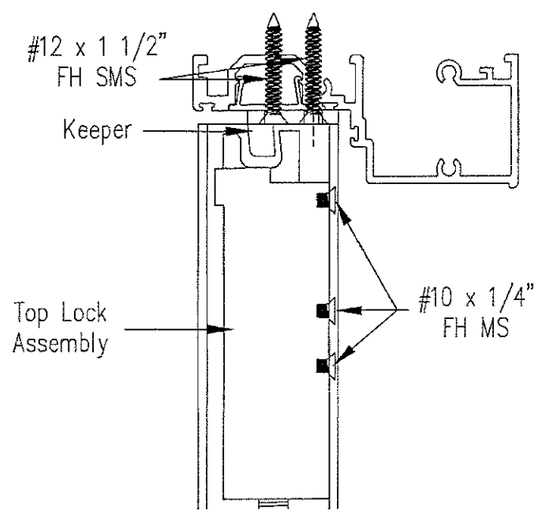
JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

DWG. NO.: W98-01

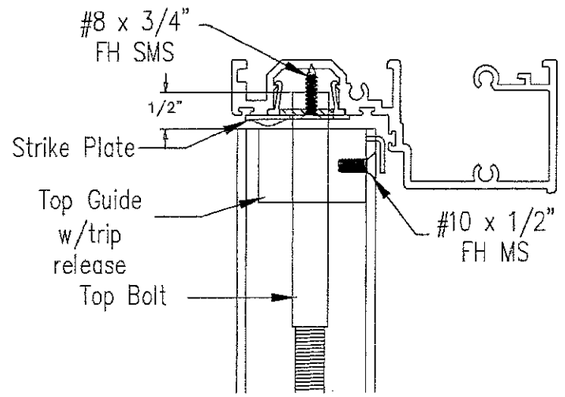
CGI Windows and Doors, Inc.
10100 northwest 25 street miami, florida 33172

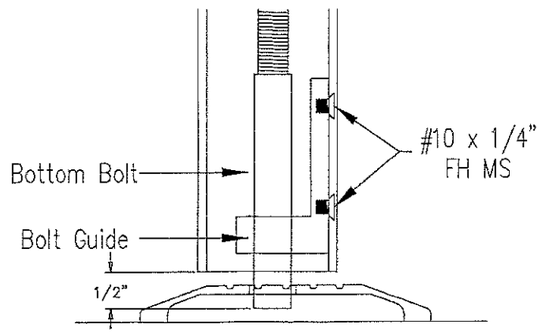
product :	Series 450 Outswing Doors & Sidelites	
date :	10-20-97	sheet 2.2 of 7

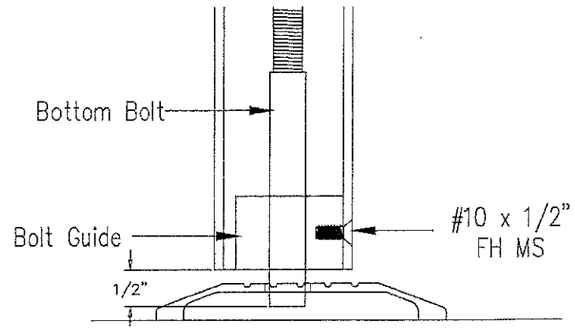
Dor-O-Matic 1690



Jackson 2086I







SEP 29 2017

M 05.13.15 NO CHANGE THIS SHEET
N 03.21.16 NO CHANGE THIS SHEET
O 09.21.17 NO CHANGE THIS SHEET

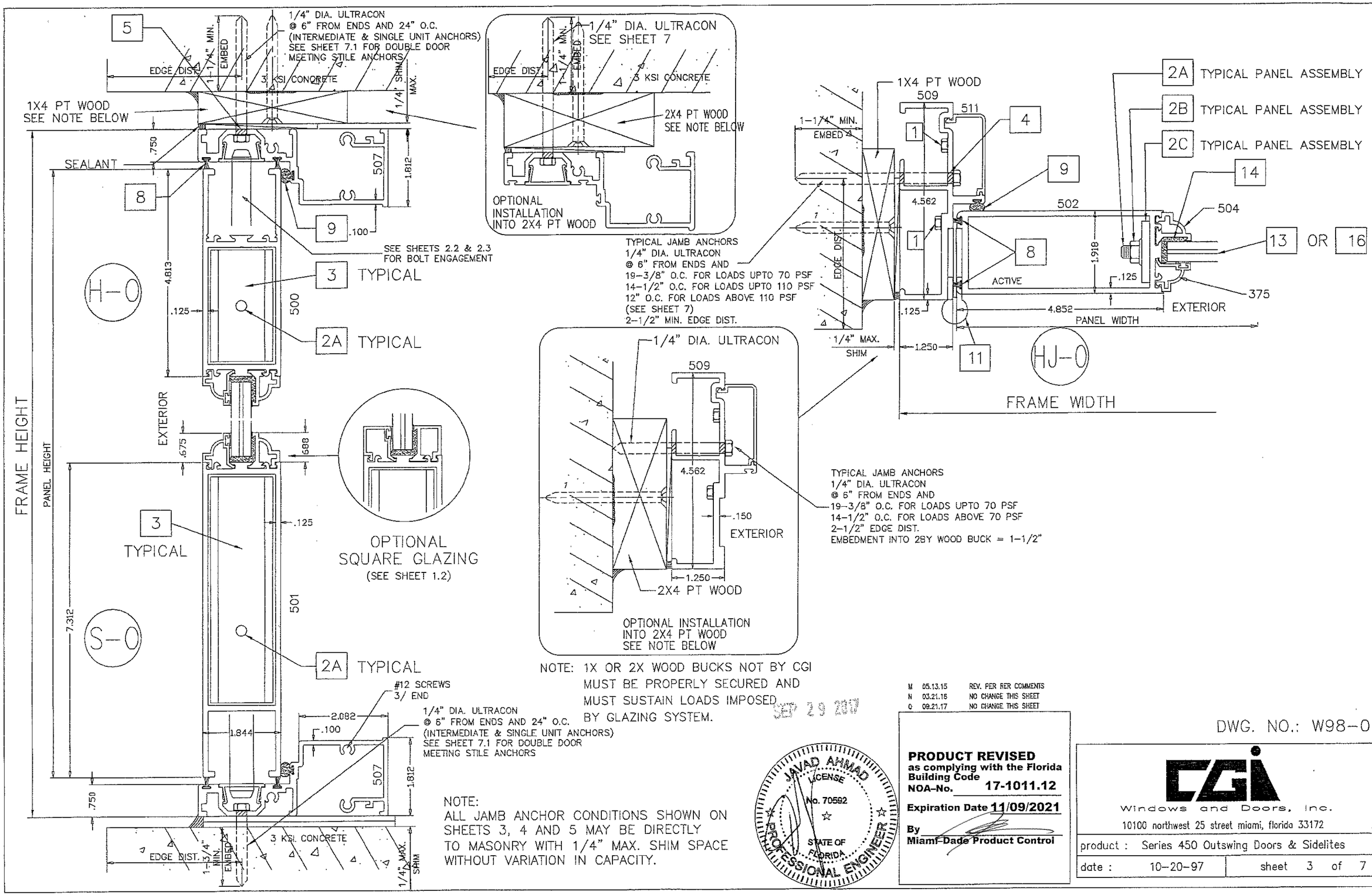
JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-1011.12
Expiration Date 11/09/2021
By
Miami-Dade Product Control

DWG. NO.: W98-01

CGI
Windows and Doors, Inc.
10100 northwest 25 street miami, florida 33172

product : Series 450 Outswing Doors & Sidelites	
date : 10-20-97	sheet 2.3 of 7



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

NOTE:
ALL JAMB ANCHOR CONDITIONS SHOWN ON SHEETS 3, 4 AND 5 MAY BE DIRECTLY TO MASONRY WITH 1/4" MAX. SHIM SPACE WITHOUT VARIATION IN CAPACITY.

SEP 29 2017

M	05.13.15	REV. PER RER COMMENTS
N	03.21.16	NO CHANGE THIS SHEET
O	09.21.17	NO CHANGE THIS SHEET

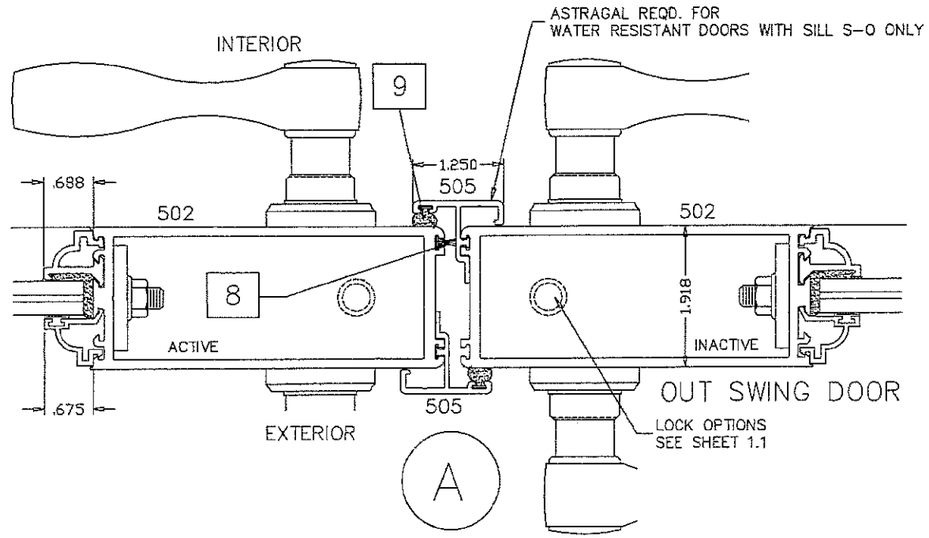
JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-1011.12
Expiration Date 11/09/2021
By
Miami-Dade Product Control

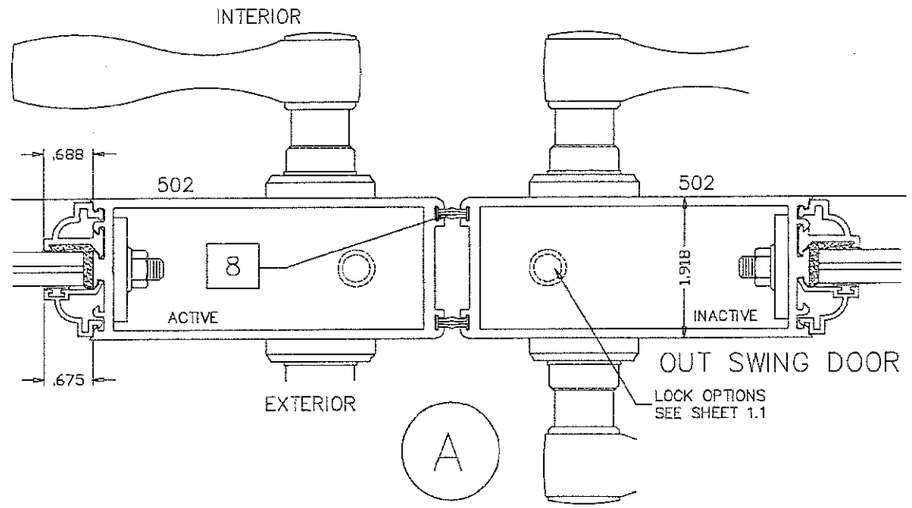
DWG. NO.: W98-01

CGI
Windows and Doors, Inc.
10100 northwest 25 street miami, florida 33172

product :	Series 450 Outswing Doors & Sidelites		
date :	10-20-97	sheet	3 of 7



LOCK STILES WITH WATER RESISTANCE



LOCK STILES WITHOUT WATER RESISTANCE

SEP 29 2017

M 05.13.15 REV. PER RER COMMENTS
N 03.21.16 NO CHANGE THIS SHEET
O 09.21.17 NO CHANGE THIS SHEET

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

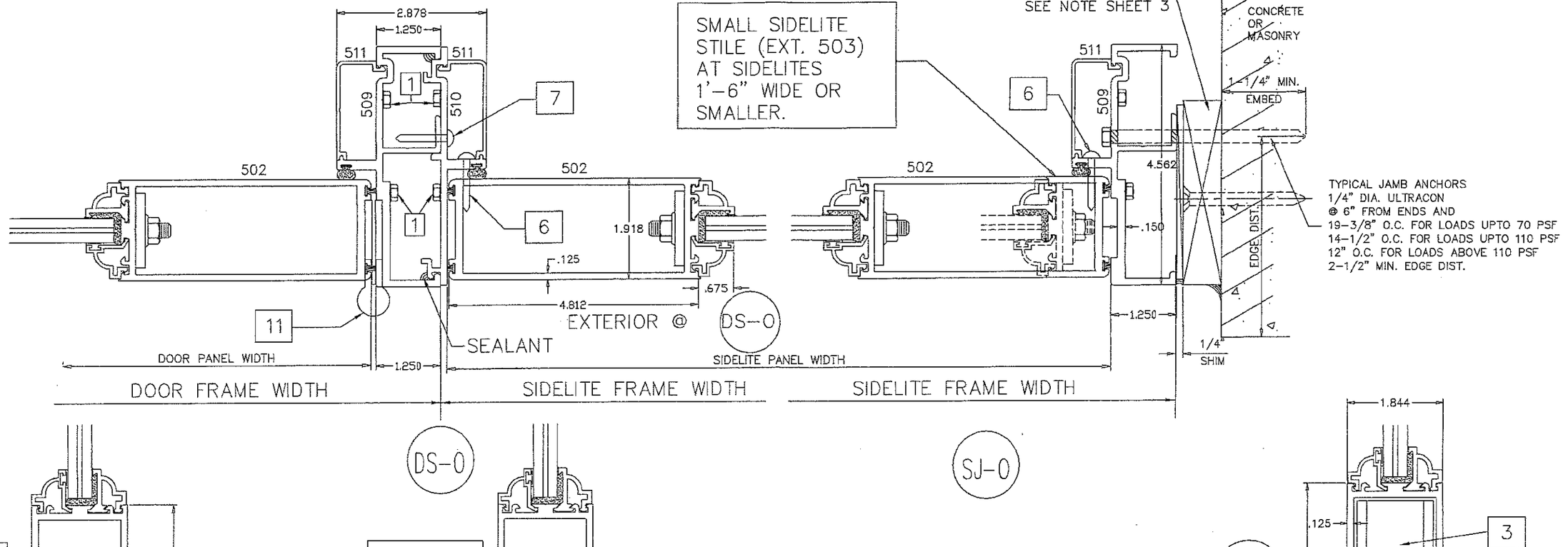
PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-1011.12
Expiration Date 11/09/2021
By
Miami-Dade Product Control

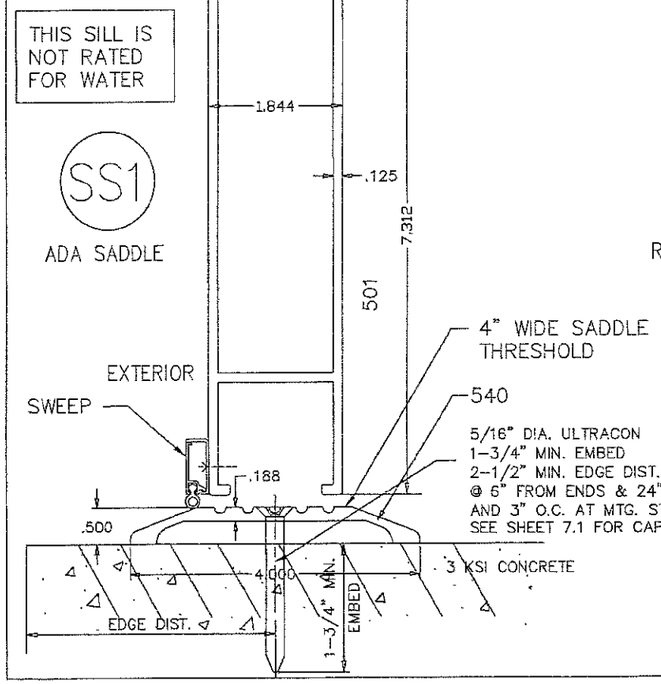
DWG. NO.: W98-01

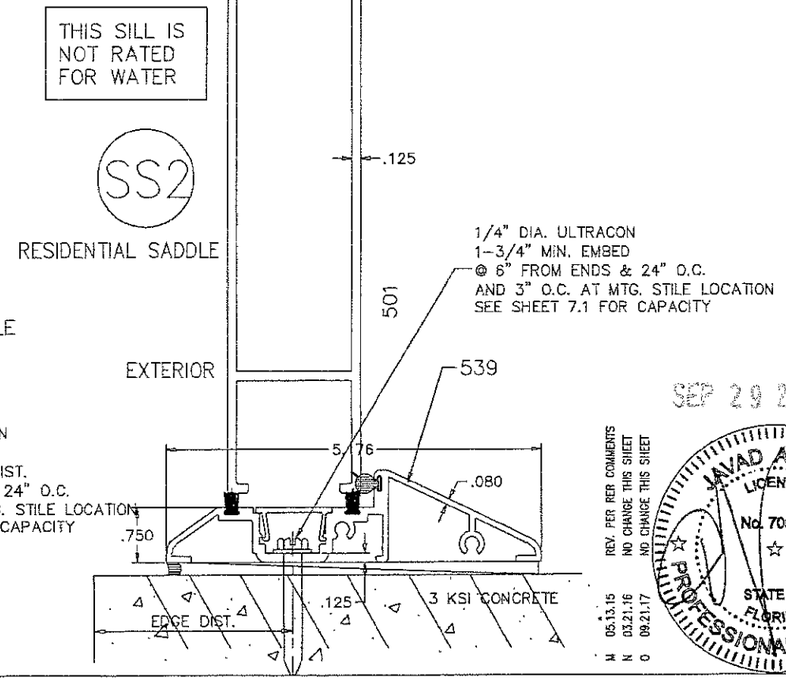
CGI
Windows and Doors, Inc.
10100 northwest 25 street miami, florida 33172

product :	Series 450 Outswing Doors & Sidelites	
date :	10-20-97	sheet 3.1 of 7

MULLION #1







REFER TO SHEET 2 OF 7 FOR TYPICAL BILL OF MATERIALS

M	05.13.15	REV. PER RER COMMENTS
N	03.21.16	NO CHANGE THIS SHEET
O	09.21.17	NO CHANGE THIS SHEET

SEP 29 2017

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-1011.12
Expiration Date 11/09/2021
By Miami-Dade Product Control

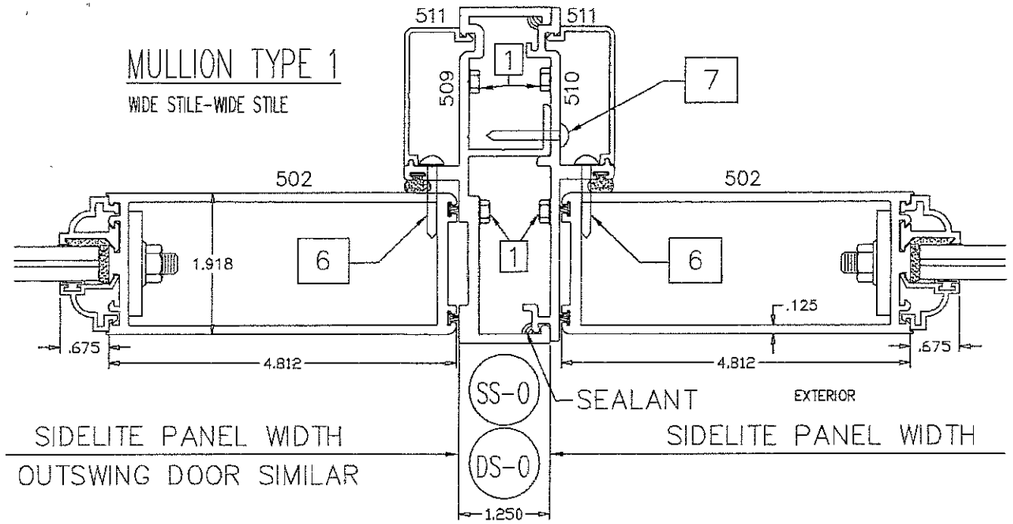
DWG. NO.: W98-01

CGI Windows and Doors, Inc.
10100 northwest 25 street miami, florida 33172

product :	Series 450 Outswing Doors & Sidelites		
date :	10-20-97	sheet	4 of 7

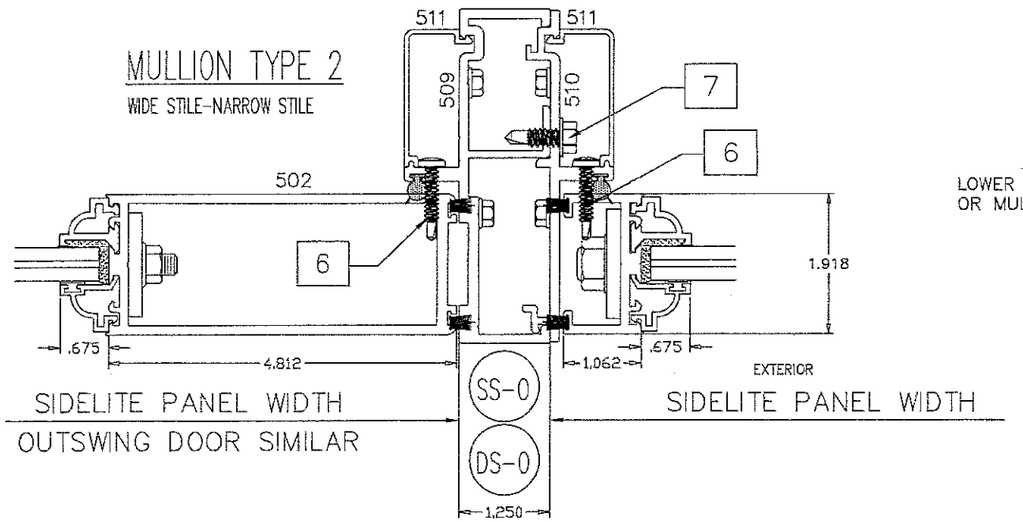
MULLION TYPE 1

WIDE STILE-WIDE STILE



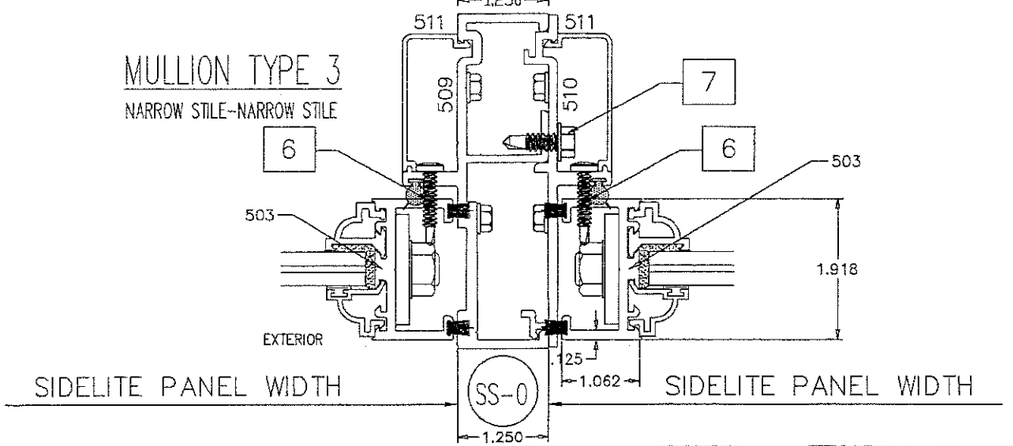
MULLION TYPE 2

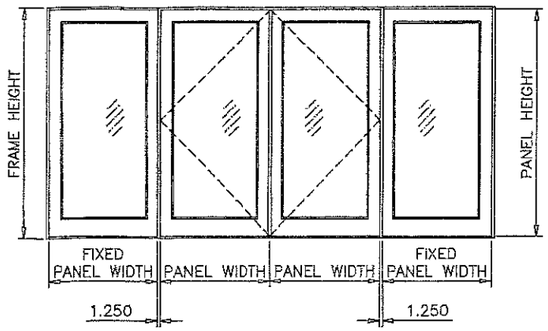
WIDE STILE-NARROW STILE



MULLION TYPE 3

NARROW STILE-NARROW STILE





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

LOWER DESIGN LOAD FROM PANEL PERFORMANCE CHART ON SHEET 6 OR MULLION PERFORMANCE CHART ABOVE SHALL CONTROL

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	99.1	99.1	–	–
3/0		97.7	97.7	–	–	–	–
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	103.0	–	–
2/6		97.0	97.0	70.0	70.0	–	–
3/0		81.9	81.9	–	–	–	–
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		69.4	69.4	–	–	–	–
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		59.3	59.3	–	–	–	–

REFER TO SHEET 2 OF 7 FOR TYPICAL BILL OF MATERIALS

SEP 29 2017

M 05.13.15 REV. PER RER COMMENTS
N 03.21.16 NO CHANGE THIS SHEET
O 09.21.17 CHART REV.

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 17-1011.12
Expiration Date 11/09/2021
By
Miami–Dade Product Control

DWG. NO.: W98–01

CGI Windows and Doors, Inc.
10100 northwest 25 street miami, florida 33172

product : Series 450 Outswing Doors & Sidelites

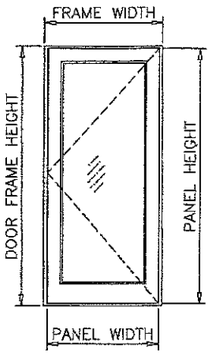
date : 10–20–97 | sheet 5 of 7

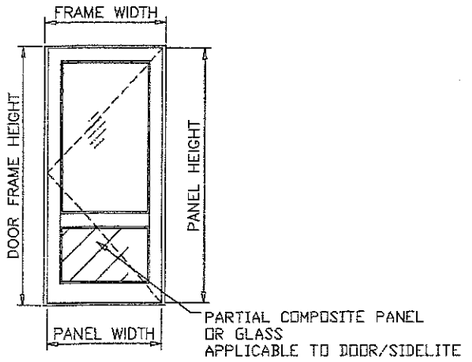
PANEL PERFORMANCE CHART FOR SINGLE & DOUBLE DOORS & SINGLE SIDELITES
(NARROW STILE SIDELITES LIMITED TO 18" OR LESS)
DESIGN LOAD CAPACITY – PSF

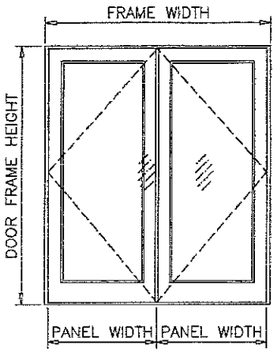
NOMINAL DIMS.			GLASS TYPE 'A' 7/16" COMPOSITE PANELS 1" COMPOSITE PANELS		GLASS TYPE 'A1'		GLASS TYPES 'B' & 'B1'	
FRAME WIDTH (X)	FRAME WIDTH (XX)	FRAME HEIGHT	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)
26-9/16"	50-1/2"	82-3/4"	100.0	110.0	70.0	70.0	90.0	90.0
32-9/16"	62-1/2"		100.0	110.0	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 DOORS USING THRESHOLDS (S-0) IN ANY CONDITION AND (SS1) & (SS2) WHERE WATER INFILTRATION REQUIREMENTS ARE NOT APPLICABLE.

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

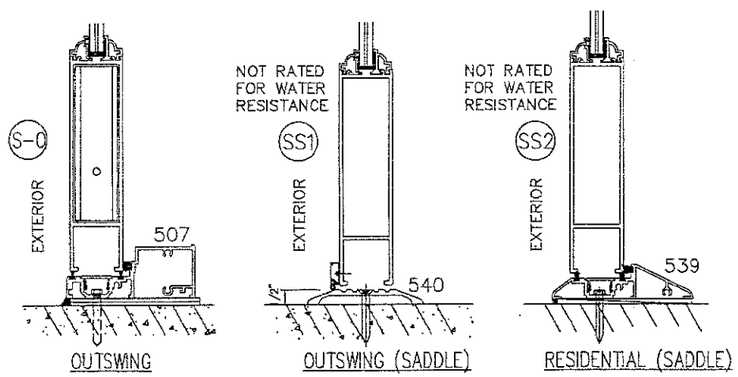






PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-1011.12
Expiration Date 11/09/2021
By
Miami-Dade Product Control

FOR SINGLE OR DOUBLE LEAF DOORS AND SINGLE SIDELITES CAPACITY SEE CHART ON THIS SHEET
SEE BELOW FOR THRESHOLD TYPES
SEE SHEET 1.1 FOR LOCK CAPACITIES FOR SINGLE AND DOUBLE DOORS
SEE SHEET 5 FOR MULLION TYPES AND DESIGN LOAD CAPACITY
SEE CHART ON SHEET 7 FOR MULLION ANCHORS CAPACITY
SEE CHART ON SHEET 7.1 FOR MTG. STILE ANCHORS AT DOUBLE DOOR.
LOWEST VALUE FROM THESE CHARTS WILL APPLY TO ENTIRE ASSEMBLY.



OUTSWING | OUTSWING (SADDLE) | RESIDENTIAL (SADDLE)

SEP 29 2017

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219

JAVAD AHMAD LICENSE No. 70582 STATE OF FLORIDA PROFESSIONAL ENGINEER

afc
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 284-8100 FAX. (305) 262-6978

COMP-ANL\W98-01CG

SERIES 450 OUTSWING DOOR AND SIDELITE

CGI Windows and Doors, Inc.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 503-6592

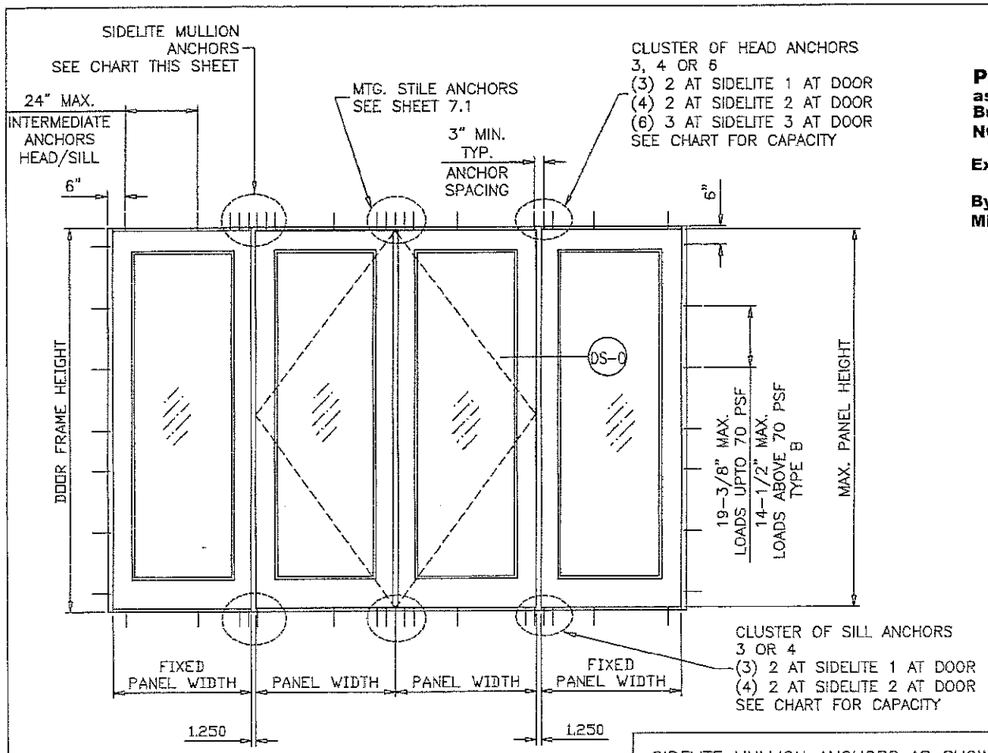
revisions:

no	date	by	description
M	05.13.15		REV. PER RER COMMENTS
N	03.21.16		NO CHANGE THIS SHEET
O	09.21.17		NO CHANGE THIS SHEET

date: 01-02-98
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W98-01

sheet 6 of 7



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

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

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-1011.12
Expiration Date 11/09/2021
By
Miami-Dade Product Control

MULLION ANCHORS AT SIDELITES

NOMINAL DIMS. WIDTH (W)	NOMINAL DIMS. FRAME HEIGHT	DESIGN LOAD CAPACITY–PSF TYPE 'B' AT HEAD CLUSTER OF 3 ANCHORS	TYPE 'B' AT HEAD CLUSTER OF 4 ANCHORS	TYPE 'B' AT HEAD CLUSTER OF 6 ANCHORS	TYPE 'C' AT HEAD TYPE 'C' AT S-0 & SS2 SILL CLUSTER OF 3 ANCHORS	TYPE 'C' AT HEAD TYPE 'C' AT S-0 & SS2 SILL CLUSTER OF 4 ANCHORS	TYPE 'C' AT HEAD TYPE 'D' AT SS1 SILL CLUSTER OF 3 ANCHORS	TYPE 'C' AT HEAD TYPE 'D' AT SS1 SILL CLUSTER OF 4 ANCHORS
2'0	82-3/4"	106.7	110.0	110.0	110.0	110.0	110.0	110.0
2'6		86.2	110.0	110.0	110.0	110.0	110.0	110.0
3'0		72.3	96.4	110.0	109.3	110.0	101.0	110.0
3'6		62.3	83.0	110.0	94.2	110.0	87.0	110.0
2'0	84-3/4"	104.2	110.0	110.0	110.0	110.0	110.0	110.0
2'6		84.2	110.0	110.0	110.0	110.0	110.0	110.0
3'0		70.6	94.1	110.0	106.7	110.0	98.7	110.0
3'6		60.8	81.1	110.0	91.9	110.0	85.0	108.7
2'0	90-3/4"	97.3	110.0	110.0	110.0	110.0	110.0	110.0
2'6		78.6	104.8	110.0	110.0	110.0	109.8	110.0
3'0		65.9	87.9	110.0	99.7	110.0	92.1	110.0
3'6		56.8	75.7	110.0	85.9	110.0	79.4	101.5
2'0	96-3/4"	91.2	110.0	110.0	110.0	110.0	110.0	110.0
2'6		73.7	98.3	110.0	110.0	110.0	103.0	110.0
3'0		61.9	82.5	110.0	93.5	110.0	86.4	110.0
3'6		53.3	71.0	106.5	80.5	107.4	74.4	95.2
2'0	102-3/4"	85.9	110.0	110.0	110.0	110.0	110.0	110.0
2'6		69.4	92.6	110.0	104.9	110.0	97.0	110.0
3'0		58.2	77.7	110.0	88.0	110.0	81.4	104.1
3'6		50.2	66.9	100.3	75.8	101.1	70.1	89.6
2'0	108-3/4"	81.2	108.2	110.0	110.0	110.0	110.0	110.0
2'6		65.6	87.5	110.0	99.2	110.0	91.7	110.0
3'0		55.0	73.4	110.0	83.2	110.0	76.9	98.3
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 USING THRESHOLDS (S-0) (SS1) AND (SS2)
LIMIT EXTERIOR LOADS WHERE WATER INFILTRATION IS REQUIRED AS PER CHART AND NOTES ON SHEET 6.

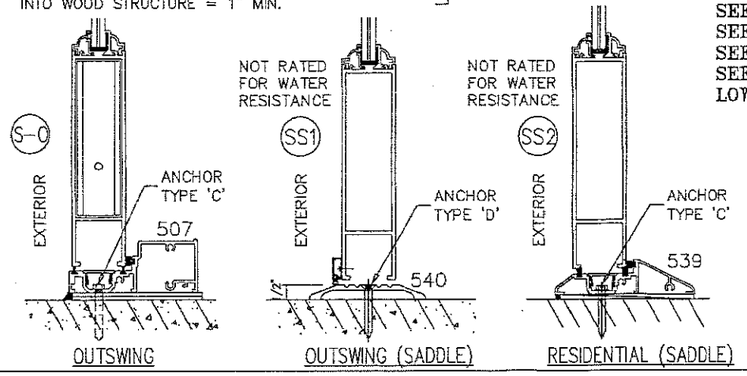
ANCHORS:

TYPE 'B'– 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI) – AT HEAD
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY WOOD BUCKS INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE
DIRECTLY INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE
EDGE DISTANCES
INTO CONCRETE = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.

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

TYPE 'D'– 5/16" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI) – AT ADA SILL
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONC.
EDGE DISTANCES
INTO CONCRETE = 2-1/2" MIN.
WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

TYPE 'B'– 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI) – AT JAMBS
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 CONCRETE OR MASONRY
DIRECTLY INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE
EDGE DISTANCES
INTO CONCRETE = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.



FOR SINGLE OR DOUBLE LEAF DOORS AND SINGLE SIDELITES CAPACITY SEE CHART ON SHEET 6.
SEE SHEET 1.1 FOR LOCK CAPACITIES FOR SINGLE AND DOUBLE DOORS
SEE BELOW FOR THRESHOLD TYPES
SEE SHEET 5 FOR MULLION TYPES AND DESIGN LOAD CAPACITY
SEE CHART ON THIS SHEET FOR MULLION ANCHORS CAPACITY
SEE CHART ON SHEET 7.1 FOR MTG. STILE ANCHORS AT DOUBLE DOOR.
LOWEST VALUE FROM THESE CHARTS WILL APPLY TO ENTIRE ASSEMBLY.

SEP 29 2017

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\W98-01CG

SERIES 450 OUTSWING DOOR AND SIDELITE

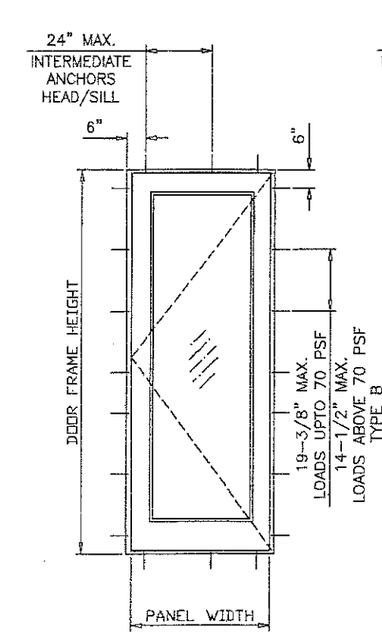
CGI Windows and Doors, Inc.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

revisions: no	date	by	description
M	05.13.15		REV. PER RER COMMENTS
N	03.21.16		NO CHANGE THIS SHEET
O	09.21.17		NO CHANGE THIS SHEET

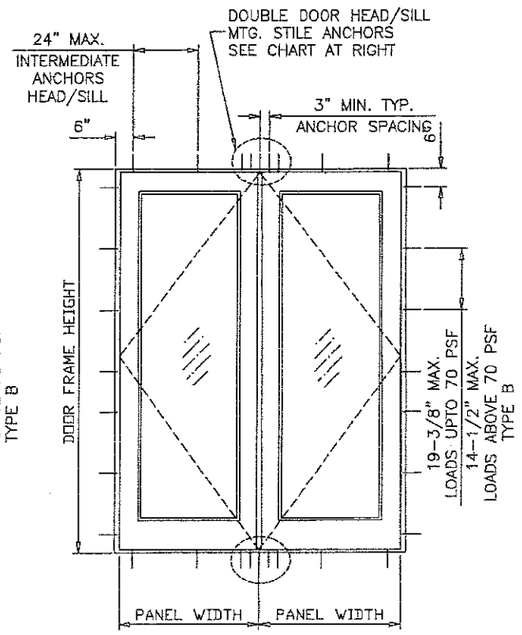
date: 01-02-98
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no. W98-01

sheet 7 of 7



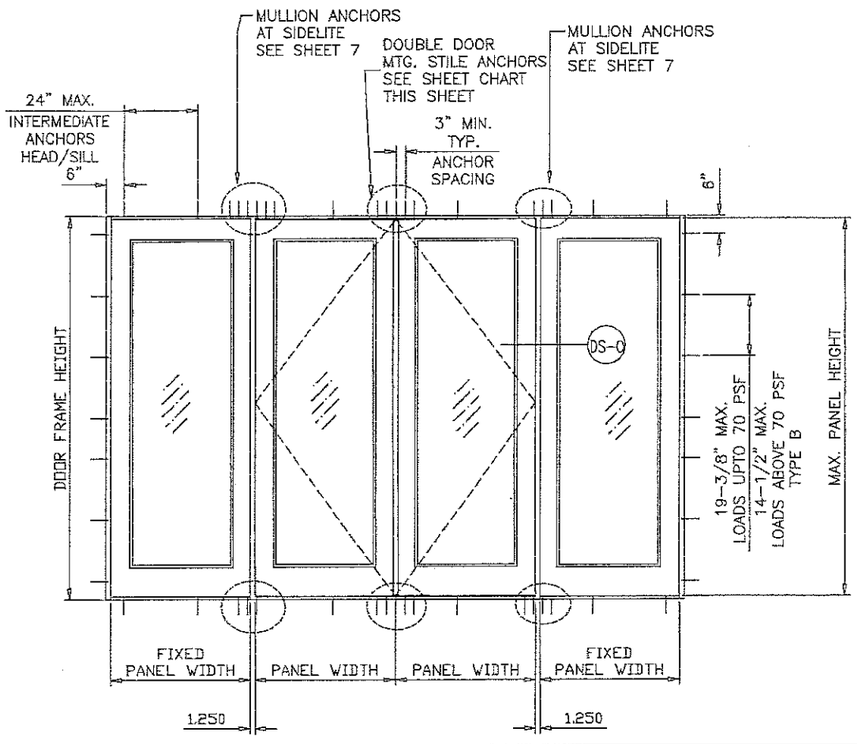
SINGLE DOOR OR SIDELITE



DOUBLE DOOR

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-1011.12
Expiration Date 11/09/2021
By
Miami-Dade Product Control

MTG. STILE ANCHORS AT DOUBLE DOORS							
NOMINAL DIMS.		DESIGN LOAD CAPACTY-PSF					
		TYPE 'B' AT HEAD			TYPE 'C' AT HEAD TYPE 'C' AT S-0 & SS2 SILL		TYPE 'C' AT HEAD TYPE 'D' AT SS1 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



SEE SHEET 7 FOR ANCHORS DESCRIPTION AND SILL ANCHOR OPTIONS

FOR SINGLE OR DOUBLE LEAF DOORS, SINGLE SIDELITES AND THRESHOLD CAPACITY SEE CHART ON SHEET 6.
SEE SHEET 1.1 FOR LOCK CAPACITIES FOR SINGLE AND DOUBLE DOORS
SEE SHEET 5 FOR MULLION TYPES AND DESIGN LOAD CAPACITY
SEE CHART ON SHEET 7 FOR MULLION ANCHORS CAPACITY
SEE CHART ON THIS SHEET FOR MTG. STILE ANCHORS AT DOUBLE DOOR.
LOWEST VALUE FROM THESE CHARTS WILL APPLY TO ENTIRE ASSEMBLY.

SEP 29 '17

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

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-9978

COMP-ANL\W98-01CG

SERIES 450 OUTSWING DOOR AND SIDELITE

CGI Windows and Doors, Inc.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

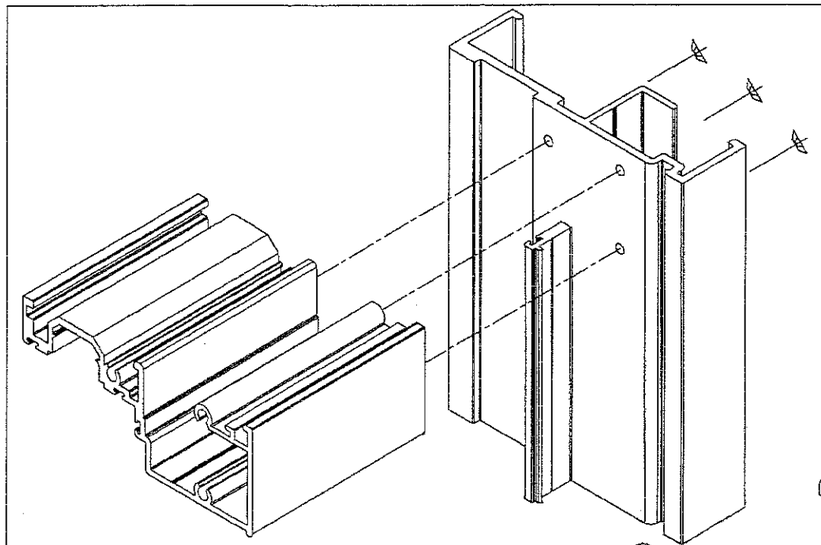
revisions:

no	date	by	description
M	05.13.15		REV. PER RER COMMENTS
N	03.21.16		NO CHANGE THIS SHEET
O	09.21.17		NO CHANGE THIS SHEET

date: 01-02-98
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

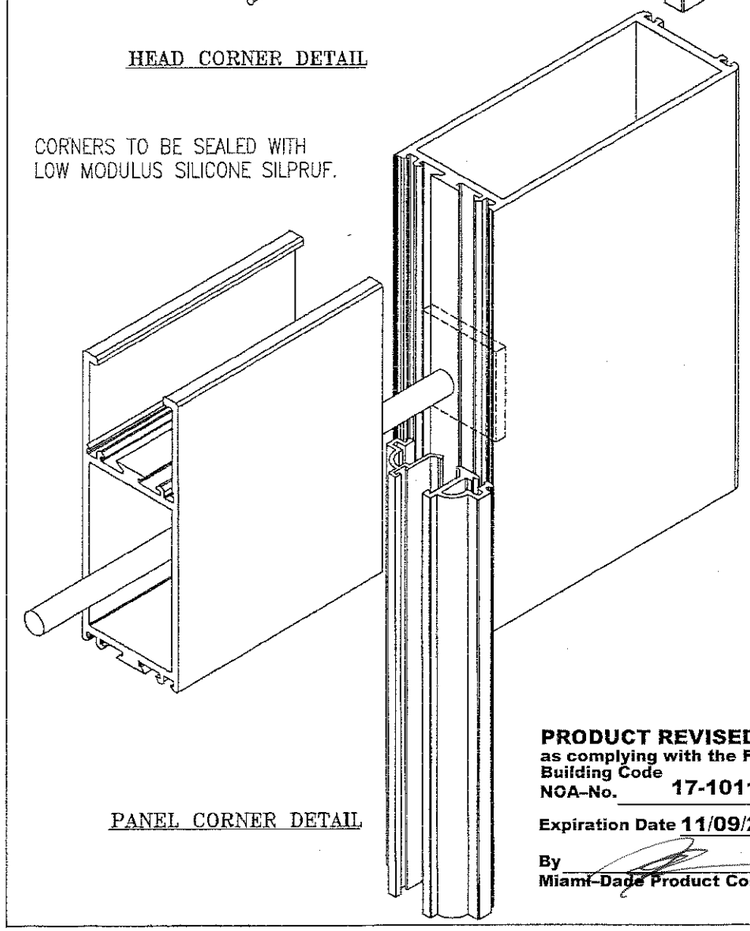
drawing no.
W98-01

sheet 7.1 of 7



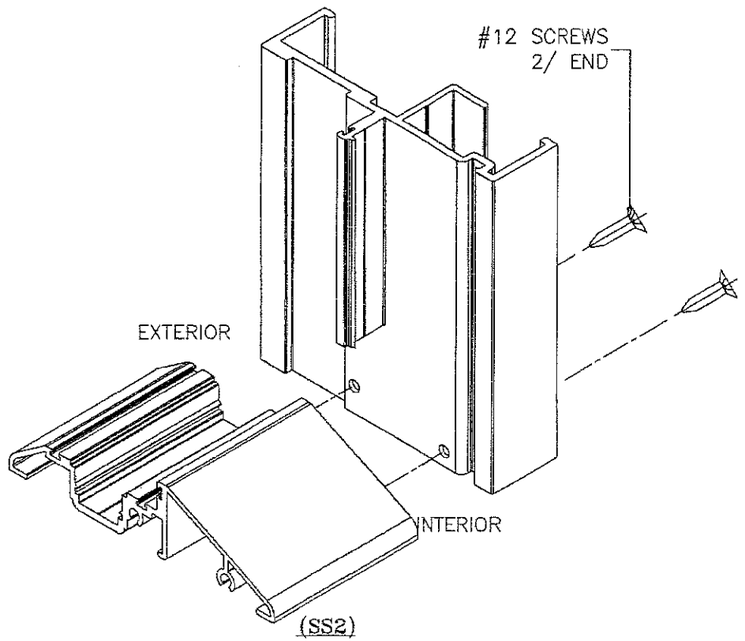
HEAD CORNER DETAIL

CORNERS TO BE SEALED WITH
LOW MODULUS SILICONE SILPRUF.

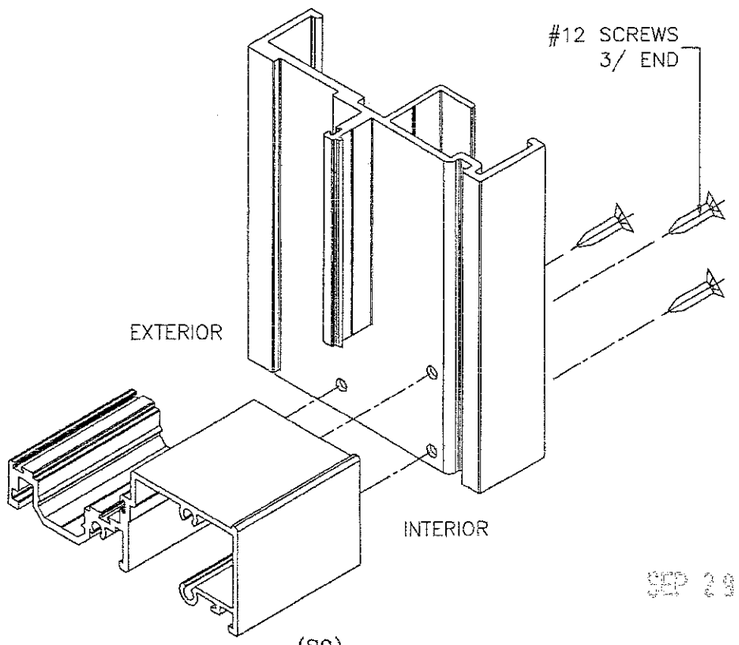


PANEL CORNER DETAIL

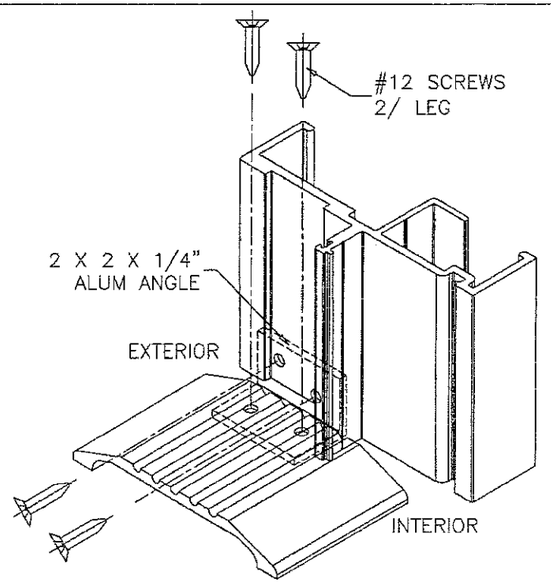
PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-1011.12
Expiration Date 11/09/2021
By
Miami-Dade Product Control



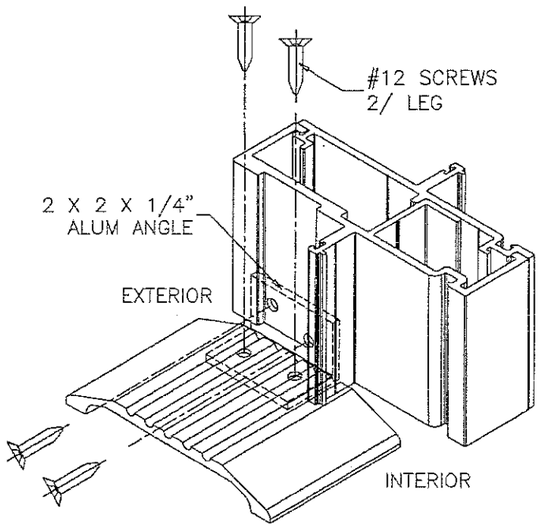
(SS2)
RESIDENTIAL SADDLE SILL CORNER CONSTRUCTION



(SO)
STD. SILL CORNER DETAIL



(SS1)
ADA SILL CORNER DETAIL



ADA SILL @ MULLION

SEP 29 2017

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-8978

COMP-ANL\W98-01CG

SERIES 450 OUTSWING DOOR AND SIDELITE

CGI Windows and Doors, Inc.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

revisions:			
no	date	by	description
M	05.13.15		NO CHANGE THIS SHEET
N	03.21.16		NO CHANGE THIS SHEET
O	03.21.17		NO CHANGE THIS SHEET

date: 01-02-98
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W98-01

sheet 7.2 of 7