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

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

NOTICE OF ACCEPTANCE (NOA)

E.S. Windows, LLC
10653 N.E. Quaybridge Ct.
Miami, FL 33138

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 "**3000**" Aluminum Outswing French Doors w /wo Sidelites

APPROVAL DOCUMENT: Drawing No. **W04-51 Rev K,** titled "series -3000 Alum Outswing French Doors (LMI)", sheets 1, 2, 2.1, 2.2 through 5, 5.1, 6, 6.1 and 7 of 7, prepared by Al-Farooq Corporation, dated 06-10-04 and last revised on NOV 09, 2016, 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. Lower Design Pressures (DP) of Doors, sidelites, hardware, glass and threshold (sill) options shall control.
2. See sheets **1** & **2** for doors, **2.1** for single sidelite and **2.2** for doors w/ sidelites options within tested frame area.
3. The Water Rating +DP with STD sill= **+70** PSF (X & XX) and Hi-Rise sill = **+90** PSF (XX) and **+100** PSF(X).
4. The frame are of alternate size must not exceed **97.58** 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, Barranquilla, Columbia, 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 NOA #16-0316.06** and consists of this page 1 and evidence pages E-1 & E-2, as well as approval document mentioned above.
The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

MIAMI-DADE COUNTY APPROVED

12/1/16

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections (Submitted under file referenced below)
2. Drawing No. **W04-51 Rev K,** titled "series -3000 Alum Outswing French Doors (LMI)", sheets 1, 2, 2.1, 2.2 through 5, 5.1, 6, 6.1 and 7 of 7, prepared by Al-Farooq Corporation, dated 06-10-04 and last revised on NOV 09, 2016, signed and sealed by Javad Ahmad, P.E.
3.

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(see sheet 2)
   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 marked-up drawing and installation diagram of aluminum outswing French door w/ Sidelite (OXX), prepared by Intertek/ Architectural Testing, Inc., No. **F2673.01-450-18,** dated 11/16/15, signed and sealed by Joseph A. Reed, 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(see sheet 2)
   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 marked-up drawing and installation diagram of aluminum outswing French door w/ Sidelites, prepared by Fenestration Testing Laboratory, Inc., No. **FTL-5938,** dated 10/01/09, signed and sealed by Julio E. Gonzales, P.E. **Note**: This test report has been revised, reviewed, signed and sealed on 03/29/10 by Jorge A. Causo, P.E. (submitted under files #**15-0611.10/#14-0722.13/#12-0308.40**)
3. Additional Test Reports: Test reports issued by Fenestration Testing Laboratory, Inc Test report No(s) **FTL-3947 & FTL-3955** per TAS 201, 202 & 202-94**,** dated 02/04/04, both signed and sealed by Edmundo J. Largaespada, P.E. and test report No. **FTL-5164** per TAS 201/203-94, issued by Fenestration Testing Laboratory, Inc, dated 08/01/07, signed & sealed by Carlos S. Roinda, P. E. (Submitted under file # **09-0825.04).**

C. CALCULATIONS

1. Anchor verification calculations and structural analysis complying with FBC-2014 (5th Edition), prepared by Al Farooq Corporation, dated 08/01/16signed and sealed by Javad Ahmad, P.E.
2. Glazing complies w/ ASTME-1300-02, -04 & -09

D. QUALITY ASSURANCE

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

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 16-0316.06
Expiration Date: December 16, 2017
Approval Date: December 08, 2016

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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. **14-0916.10** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for "Kuraray **Butacite PVB Interlayer**", expiring on 12/11/16.

F. STATEMENTS

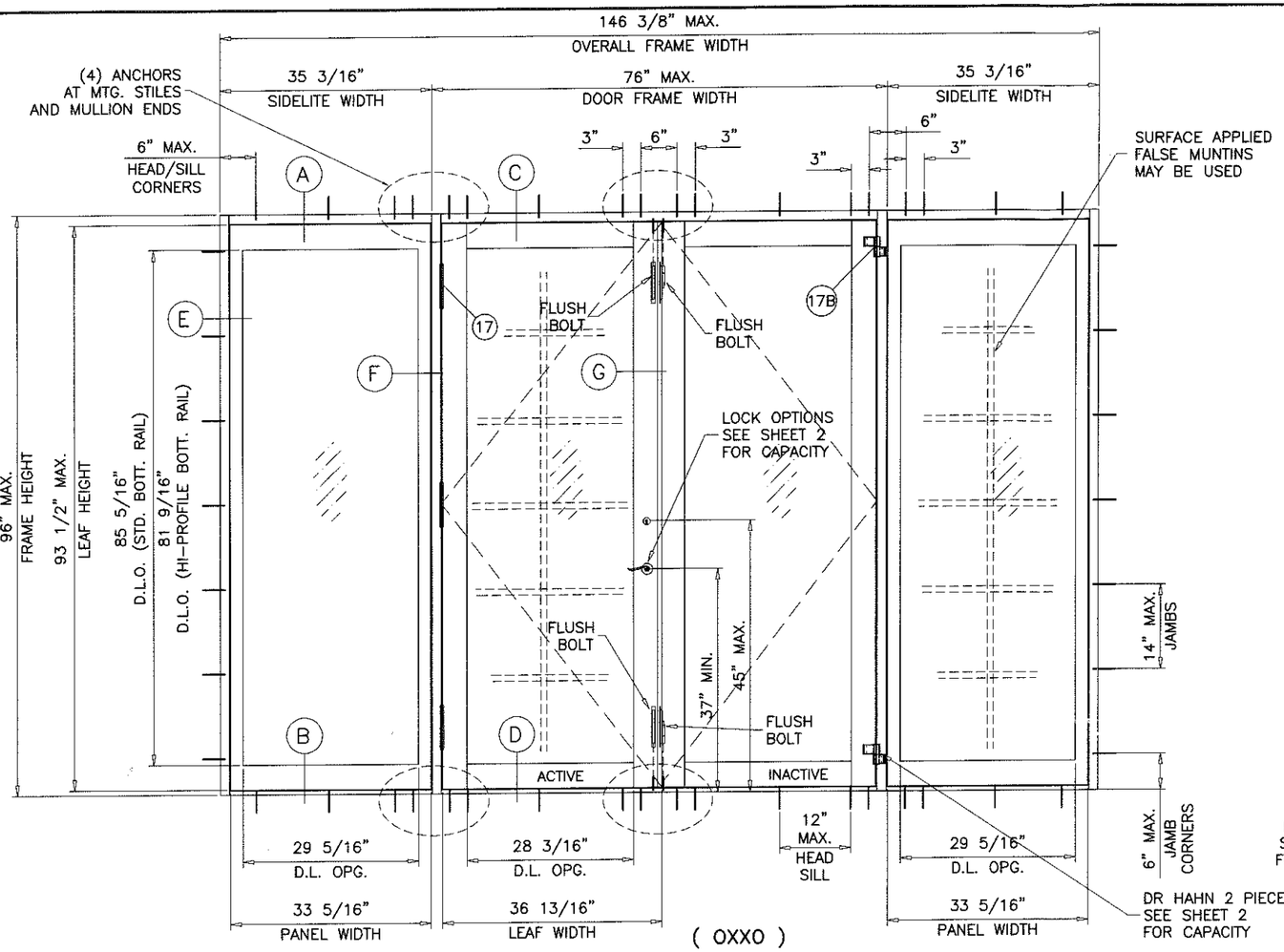
1. Statement letter of conformance to FBC 2014 (**5th** Edition) and letter of no financial interest, prepared by Al Farooq Corporation, dated 08/01/16, signed and sealed by Javad Ahmad, P.E.
2. Lab compliance as part of the above referenced test report.

G. OTHER

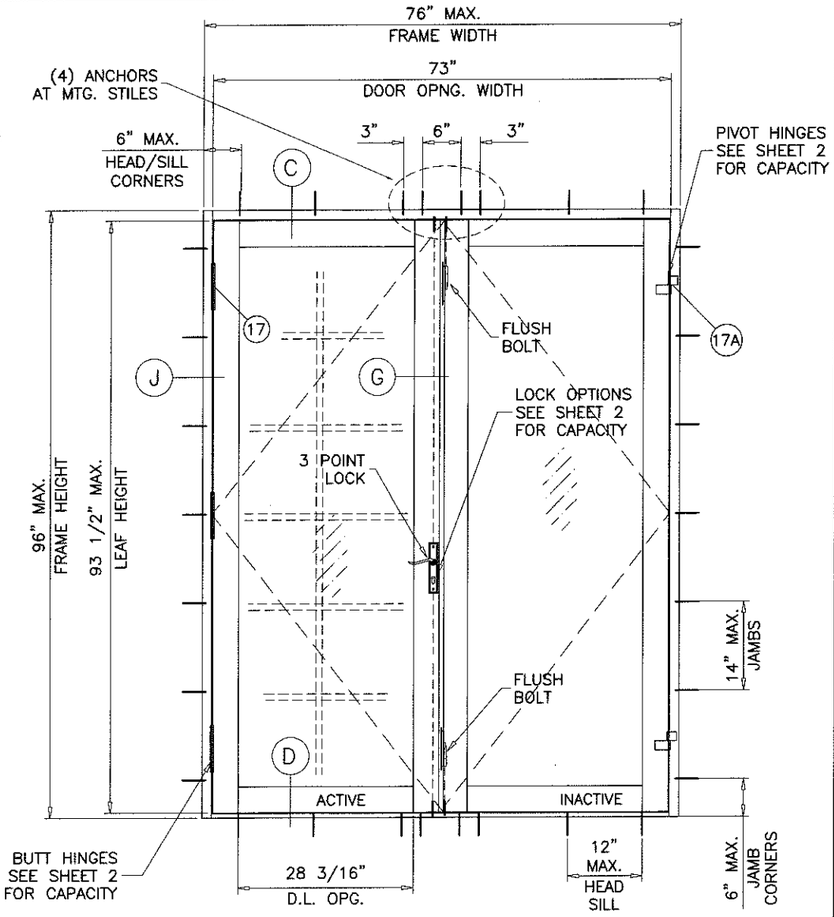
1. This NOA **revises** NOA # **16-0316.06,** expiring December 16, 2017.
2. Statement letter dated 11/09/16 issued by ES windows, LLC requesting one year conditional approval until completion of the test proposal # 16-0940 and agree to remedial action, should the test is unsuccessful, signed by Samir Sabagh (Engineer-ES)
3. Test proposal No(s) #16-0940, #09-0225 dated 06/17/09, # 06–0411 dated 07/31/07 & 02/06/06 approved by BCCO.
4. Distribution agreement between Energia Solar, S.A.-ES Windows and ES Windows, LLC, dtd 08/03/15, signed by Ms. Carla Garcia (MGR) and Andres Chamorro (Gen. MGR) respectively.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 16-0316.06
Expiration Date: December 16, 2017
Approval Date: December 08, 2016



(OXXO)
LOCK OPTION #1



(XX)
LOCK OPTION #2

MAX. FRAME AREA NOT TO EXCEED 97.58 SQ. FT. PER FBC 2014

TYPICAL ELEVATIONS
TESTED UNITS

SERIES-3000 ALUM OUTSWING FRENCH DOOR

APPROVAL APPLIES TO SINGLE (X) AND DOUBLE (XX) LEAF DOORS WITH OR WITHOUT SIDELITES.
SIDE LITES CAN BE ON ONE OR BOTH SIDES OF DOOR.

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

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS, INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2014 FLORIDA BUILDING CODE & ADOPTED STANDARDS.

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.

THESE PRODUCTS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2 FOR SINGLE (X) AND DOUBLE (XX) DOOR CAPACITIES SEE SHEET 2. USE LOWER VALUES FROM GLASS, HINGES, LOCK AND FRAME SILL OPTIONS USED.
- STEP 3 FOR SIDELITE PANEL (O) CAPACITY SEE SHEET 2.1.
- STEP 4 FOR SIDELITE COMBINATION WITH DOOR OR SIDELITE SEE MULLION CAPACITY CHART ON SHEET 2.2.
- STEP 5 THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

NOTE:
FLUSH BOLTS ARE CONCEALED ON INACTIVE LEAF AND EXPOSED ON ACTIVE LEAF
SEE DETAIL G ON SHEET 5.

DOOR LEAF WIDTH (X) = FRAME WIDTH - 2.8125"
DOOR LEAF WIDTH (XX) = (FRAME WIDTH - 2.375")/2
DOOR LEAF HEIGHT = FRAME HEIGHT - 2.500"
SIDELITE PANEL WIDTH = SIDELITE WIDTH - 1.875"

PRODUCT REVISED
to complying with the Florida
Building Code
Acceptance No 16-0316-06
Expiration Date DEC 16, 2017
By [signature]
NOA or Code Product Control

NOV 09 2016

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\W04-51ESW

SERIES-3000 ALUM OUTSWING FRENCH DOOR (L.M.I.)

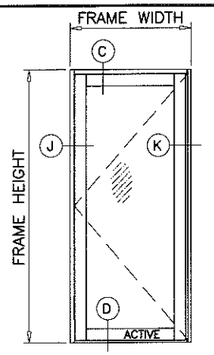
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:			
no	date	by	description
H	05.29.15		UPDATED TO 2014 FBC
I	08.27.15		REV. PER RER COMMENTS
J	05.18.16		HINGE & GLASS OPTIONS ADDED
K	10.31.16		REV. PER RER COMMENTS

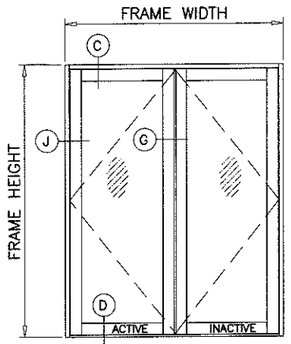
date: 06-10-04
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
W04-51

sheet 1 of 7



LOCK OPTION 1 & 2



LOCK OPTION 1 & 2

'X' DOORS

DESIGN LOAD CAPACITY – PSF (GLASS AND HARDWARE OPTIONS)																		
		GLASS TYPES								HINGES				LOCKS				
FRAME HEIGHT INCHES	FRAME WIDTH INCHES	'A', 'B' & 'D'		'C' & 'E'		'F'		'G' & 'H'		OPTION '1'		'2' & '3'		OPTION '1'		OPTION '2'		
		EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	
95–3/4	37–1/2	70.0	80.0	90.0	90.0	100.0	120.0	70.0	80.0	90.0	90.0	100.0	120.0	70.0	80.0	100.0	120.0	
	39–5/8	–	–	90.0	90.0	100.0	120.0	70.0	80.0	90.0	90.0	100.0	120.0	70.0	80.0	100.0	120.0	

NOTE:
LOWEST VALUE SELECTED FROM OPTION WILL APPLY.

'XX' DOORS

DESIGN LOAD CAPACITY – PSF (GLASS AND HARDWARE OPTIONS)																		
		GLASS TYPES								HINGES				LOCKS				
FRAME HEIGHT INCHES	FRAME WIDTH INCHES	'A', 'B' & 'D'		'C' & 'E'		'F'		'G' & 'H'		OPTION '1'		'2' & '3'		OPTION '1' & '3'		OPTION '2'		
		EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	
95–3/4	71–3/4	70.0	80.0	90.0	90.0	90.0	90.0	70.0	80.0	90.0	90.0	90.0	90.0	70.0	80.0	90.0	90.0	
	76	–	–	90.0	90.0	90.0	90.0	70.0	80.0	90.0	90.0	90.0	90.0	70.0	80.0	90.0	90.0	

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

HINGES:

OPTION #1:

THREE PIECE ALUM BUTT HINGE BY 'E.S. WINDOWS'
(3) HINGES PER LEAF AT 11" FROM TOP & BOTTOM AND AT MIDSPAN
FASTENED TO DOOR FRAME AND LEAF WITH #10 X 1" FH SMS
(6) SCREWS AT FRAME, (5) SCREWS AT LEAF

OPTION #2:

FACE MOUNT 2 WING PIVOT HINGE BY 'MASTER ACCESSORIES' WITH EXTRUDED ALUMINUM BASE, DIE CAST ALUMINUM COVER PLATES, ST. STEEL PIVOTS AND GALV. STEEL BRUSHES AND SCREWS
(2) HINGES PER LEAF AT 12" FROM TOP & BOTTOM
FASTENED TO DOOR FRAME AND LEAF WITH 5/16–24 X 1" FH MS (2) PER WING

OPTION #3:

SERIES 60AT (DR HAHN A701) DIE CAST ALUMINUM HINGE BY 'DR HAHN'
(2) HINGES PER LEAF AT 6" FROM TOP & BOTTOM

LOCKING HARDWARE:

ACTIVE LEAF:

OPTION #1:

SURFACE MOUNT DEAD BOLT LOCK BY 'YALE' AT 45" FROM BOTTOM, KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR
FASTENED TO ACTIVE LEAF LOCK STILE WITH (2) 1/4–28 X 2–1/2" OH MS
LEVER TYPE METALLIC HANDLE AT 37" FROM BOTTOM, FASTENED TO ACTIVE LEAF LOCK STILE WITH (2) #8–32 X 1–3/4" PH MS.

CONCEALED FLUSH BOLTS BY 'SULLIVAN & ASSOC.' MANUALLY OPERATED LEVERS MOUNTED ON STILE FACE, LOCATED AT 12" FROM TOP AND BOTTOM
FASTENED TO LOCK STILE WITH #8 X 3/4" FH SMS (2) SCREWS PER BOLT

OPTION #2:

3 POINT LOCK SYSTEM BY 'INTERLOCK' AT 39" FROM BOTTOM
HANDLE ACTIVATES DEAD BOLT AND SHOOT BOLTS ENGAGING AT HEAD AND SILL
KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR
FASTENED TO ACTIVE LEAF LOCK STILE WITH (2) #8–32 X 2" OH MS

OPTION #3:

4–POINT MORTICE LOCK SYSTEM BY 'INTERLOCK' AT 39" FROM BOTTOM
HANDLE ACTIVATES DEAD BOLT AND SHOOT BOLTS ENGAGING AT HEAD AND SILL
KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR
FASTENED TO ACTIVE LEAF LOCK STILE WITH (2) #8–32 X 2" OH MS

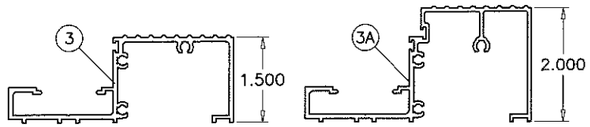
INACTIVE LEAF (FOR USE WITH OPTIONS 1,2 & 3)

CONCEALED FLUSH BOLTS BY 'SULLIVAN & ASSOC.' MANUALLY OPERATED LEVERS MOUNTED ON INSIDE FACE OF LEAF STILE LOCATED AT 12" FROM TOP AND BOTTOM
FASTENED TO LOCK STILE WITH #8 X 3/4" FH SMS (2) PER BOLT

WATER INFILTRATION LIMITATIONS:

WHERE WATER INFILTRATION RESISTANCE IS REQUIRED LIMIT EXTERIOR LOADS FOR ALL CASES AS FOLLOWS
STD. SILL = +70.0 PSF (X & XX DOORS)
HI–RISE SILL = +90.0 PSF (XX DOORS)
+100.0 PSF (X DOORS)

EXCEPT GLASS TYPES 'G' & 'H' REQUIRE HI–RISE SILL FOR ALL CASES.



STD. SILL HI–RISE SILL

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 16-0316.06
Expiration Date 12/16/17
By Ishaq I. Chanda
Mgr. of Prod./Product Control

NOV 03 2016

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

NOTE:
DOOR WIDTH AND HEIGHT MUST COMPLY WITH EGRESS REQUIREMENTS PER FBC WHERE REQUIRED.

D.L. OPENINGS:
D.L.O. HEIGHT = LEAF HEIGHT – 8.1875" (STD. BOT. RAIL)
D.L.O. HEIGHT = LEAF HEIGHT – 11.9375" (HI RISE BOT. RAIL)
D.L.O. WIDTH = LEAF WIDTH – 8.625"

WIDTHS:

FRAME WIDTH	LEAF WIDTH	DAYLITE OPG.
31–1/2"	28–11/16"	20–1/16"
37–1/2"	34–11/16"	26–1/16"
39–5/8"	36–13/16"	28–3/16"
59–3/4"	28–11/16"	20–1/16
71–3/4"	34–11/16"	26–1/16"
76"	36–13/16"	28–3/16"

HEIGHTS:

		DAYLITE OPG.	
FRAME HEIGHT	LEAF HEIGHT	STANDARD BOTTOM RAIL	HI–PROFILE BOTTOM RAIL
82–1/2"	80"	71–13/16"	68–1/16"
95–3/4"	93–1/4"	85–1/16"	81–5/16"

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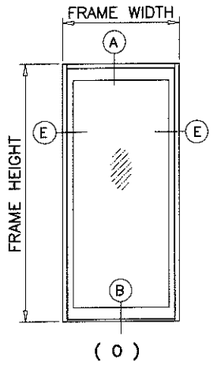
date: 06–10–04
scale: 1/2"=1'–0"
dr. by: TARIQ
chk. by:

drawing no. W04–51

sheet 2 of 7

STATIONARY PANEL (O) OR SIDELITES

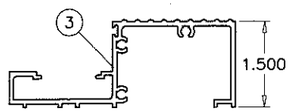


(O)

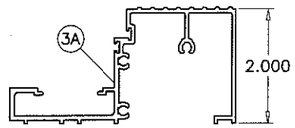
DESIGN LOAD CAPACITY - PSF									
FRAME HEIGHT FT./IN.	FRAME WIDTH INCHES	GLASS TYPES							
		'A', 'B', 'D'		'C', 'E'		'F'		'G' & 'H'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
6/10-1/2	33	70.0	80.0	90.0	90.0	90.0	90.0	70.0	80.0
	36	70.0	80.0	87.0	87.0	87.0	87.0	70.0	80.0
	39	70.0	80.0	80.3	80.3	80.3	80.3	70.0	80.0
	42	70.0	74.6	74.6	74.6	74.6	74.6	70.0	74.6
7/0	33	70.0	80.0	90.0	90.0	90.0	90.0	70.0	80.0
	36	70.0	80.0	87.0	87.0	87.0	87.0	70.0	80.0
	39	70.0	80.0	80.3	80.3	80.3	80.0	70.0	80.0
8/0	33	70.0	80.0	87.6	87.6	90.0	90.0	70.0	80.0
	36	70.0	80.0	87.0	87.0	87.0	87.0	70.0	80.0

WATER INFILTRATION LIMITATIONS:

WHERE WATER INFILTRATION RESISTANCE IS REQUIRED
LIMIT EXTERIOR LOADS FOR ALL CASES AS FOLLOWS
STD. SILL = +70.0 PSF
HI-RISE SILL = +90.0 PSF



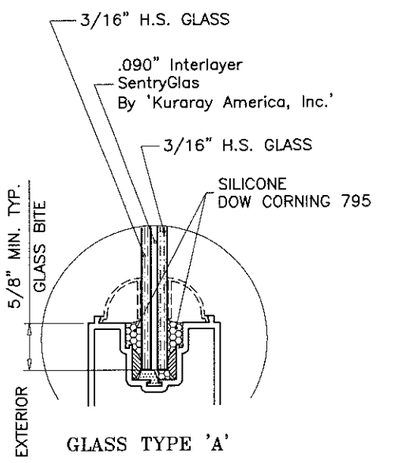
STD. SILL



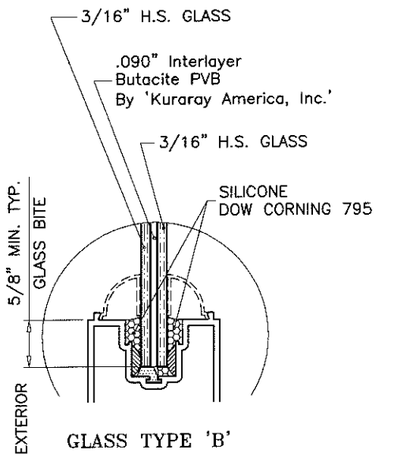
HI-RISE SILL

D.L. OPENINGS:
D.L.O. HEIGHT = LEAF HEIGHT - 8.1875" (STD. BOT. RAIL)
D.L.O. HEIGHT = LEAF HEIGHT - 11.9375" (HI RISE BOT. RAIL)
D.L.O. WIDTH = PANEL WIDTH - 4.000"

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



GLASS TYPE 'A'



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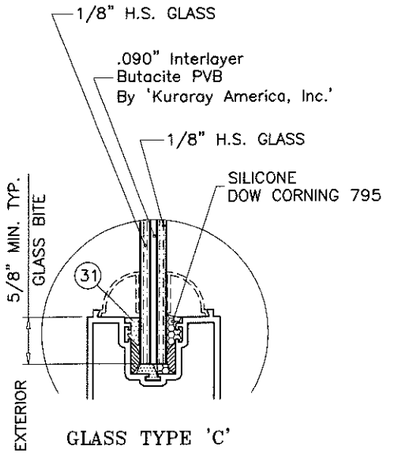

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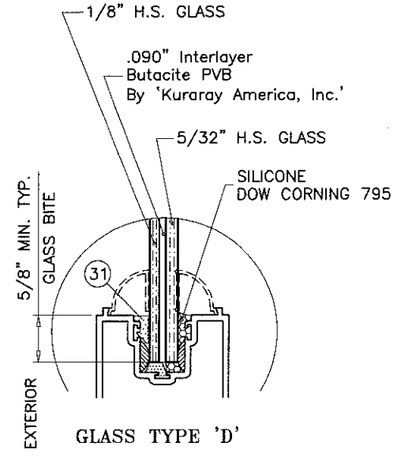

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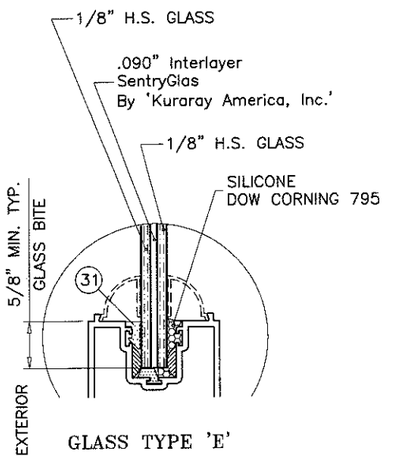

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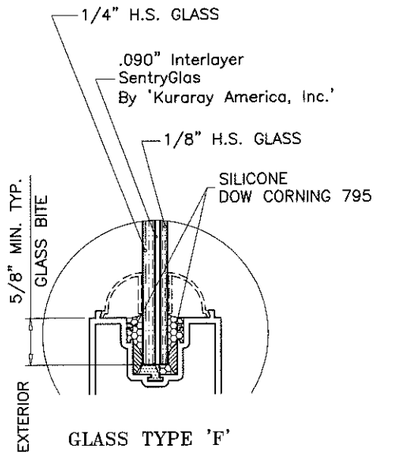

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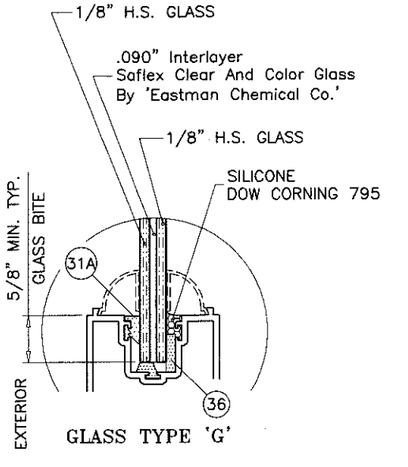

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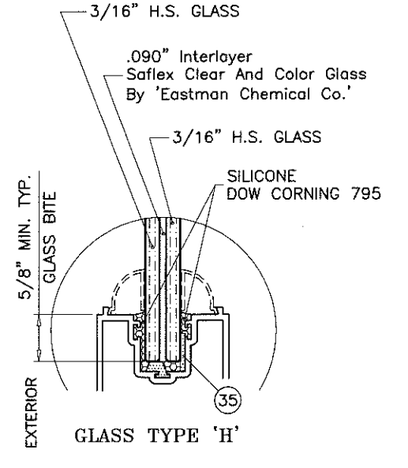

GLASS TYPE 'H'

GLAZING OPTIONS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-0316.06
Expiration Date 12/14/17
By [signature]
Miami-Dade Product Control

NOV 09 2016

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\W04-51ESW

SERIES-3000 ALUM OUTSWING FRENCH DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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K	10.31.16		REV. PER RER COMMENTS

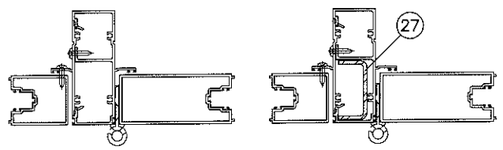
date: 06-10-04
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W04-51

sheet 2.1 of 7

MULLION

DESIGN LOAD CAPACITY - PSF				
SIDELITE WIDTH INCHES	FRAME HEIGHT FT./IN.	DOOR TO SIDELITE MULLION		SIDELITE TO SIDELITE MULL
		UNREINFORCED	REINFORCED	REINFORCED
		EXT.(+)/INT.(−)	EXT.(+)/INT.(−)	EXT.(+)/INT.(−)
24	6/10−1/2	80.0	80.0	90.0
27		80.0	80.0	90.0
30		80.0	80.0	90.0
33		80.0	80.0	90.0
36		80.0	80.0	87.0
39		80.0	80.0	80.3
42		74.6	74.6	74.6
24	7/0	80.0	80.0	90.0
27		80.0	80.0	90.0
30		80.0	80.0	90.0
33		80.0	80.0	90.0
36		80.0	80.0	87.0
39		80.0	80.0	80.3
18	8/0	78.9	80.0	90.0
21		74.8	80.0	90.0
24		71.1	80.0	90.0
27		67.9	80.0	90.0
30		65.0	80.0	90.0
33		62.4	78.9	90.0
36		60.1	76.0	87.0

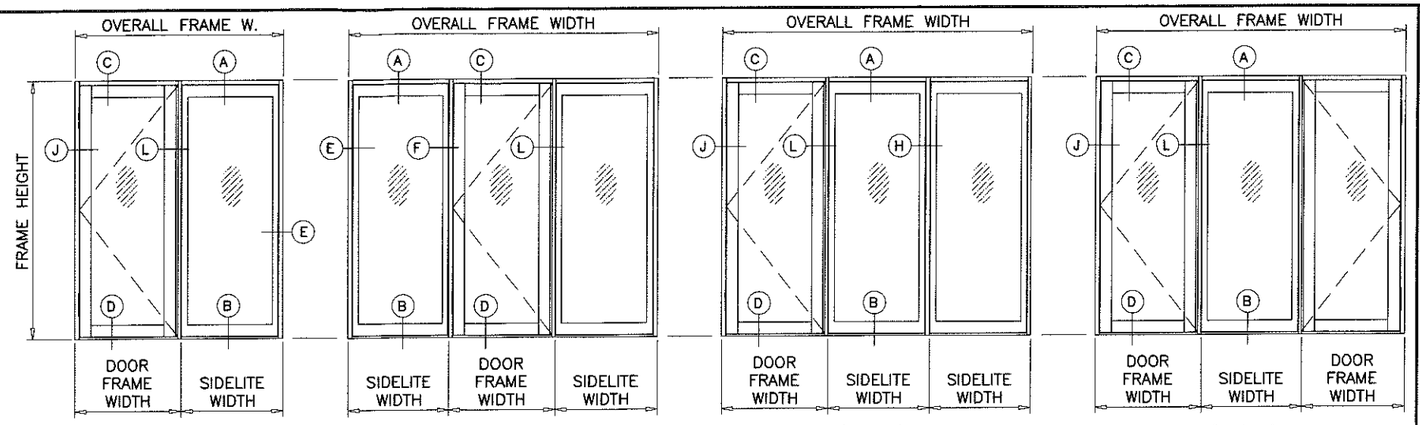


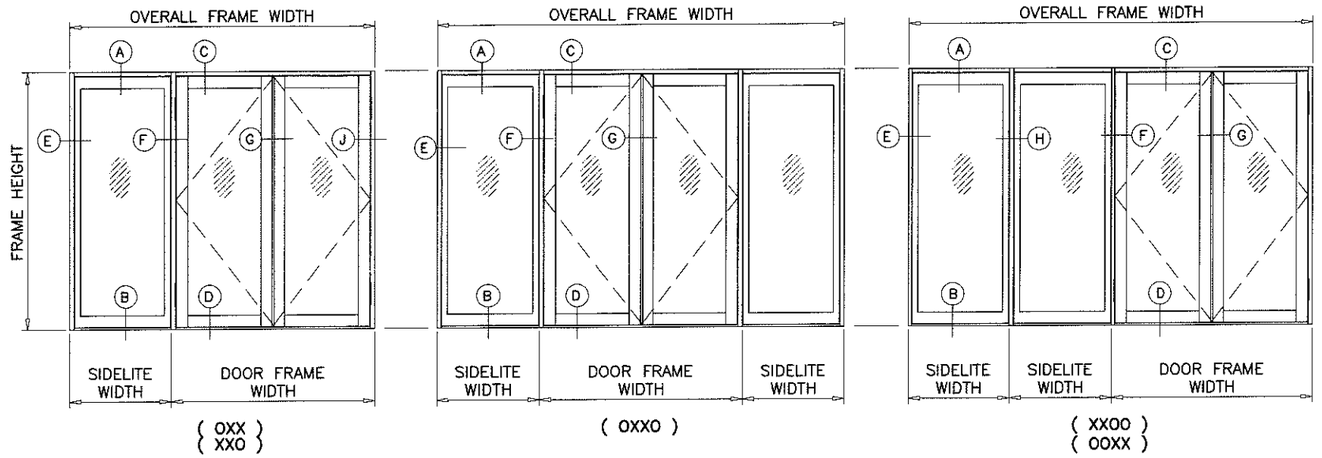
UNREINFORCED REINFORCED

DOOR TO SIDELITE MULLION

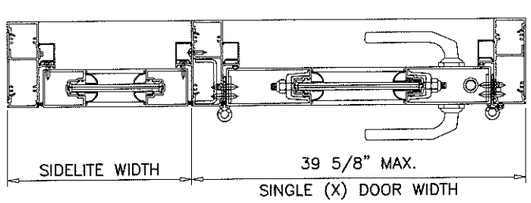
REINFORCED

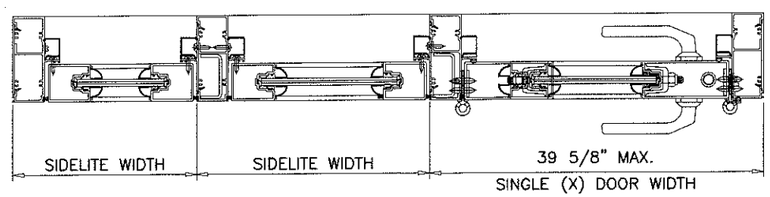
SIDELITE TO SIDELITE MULLION

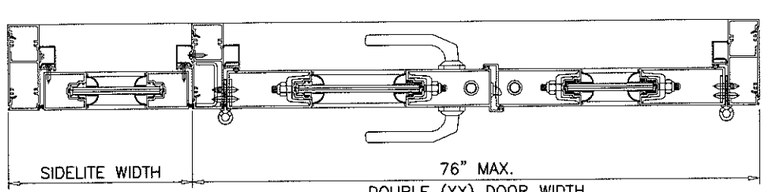




NOTE:
FOR DOORS CAPACITY SEE SHEET 2
FOR SIDELITE CAPACITIES SEE SHEET 2.1.
FOR SIDELITE MULLION CAPACITY SEE CHART ABOVE
LOWER VALUES FROM DOORS, SIDELITE OR DOOR/SIDELITE MULLION CHART WILL APPLY TO ENTIRE SYSTEM.







PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 16-0316-06
Expiration Date 12/16/17
Miami-Dade Product Control

NOV 09 2016

JAVAD AHMAD LICENSE NO. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

COMP-ANL\W04-51ESW

SERIES-3000 ALUM OUTSWING FRENCH DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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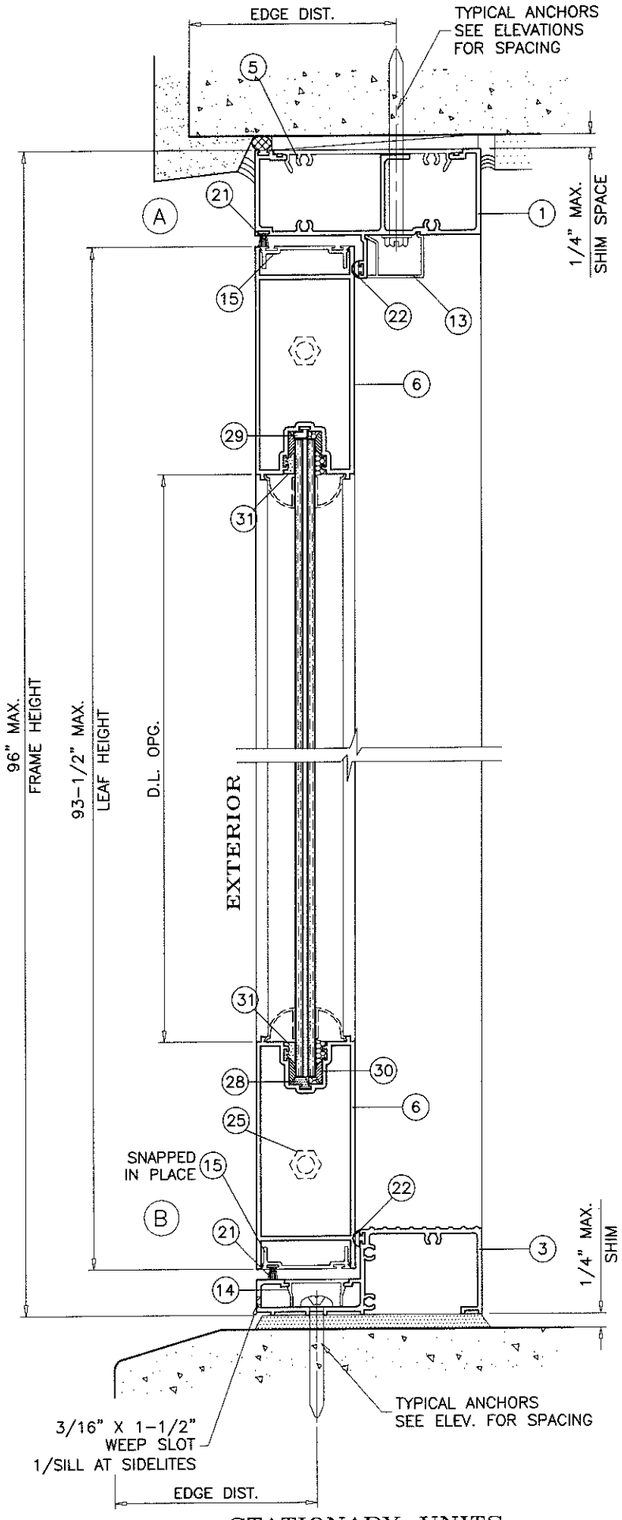
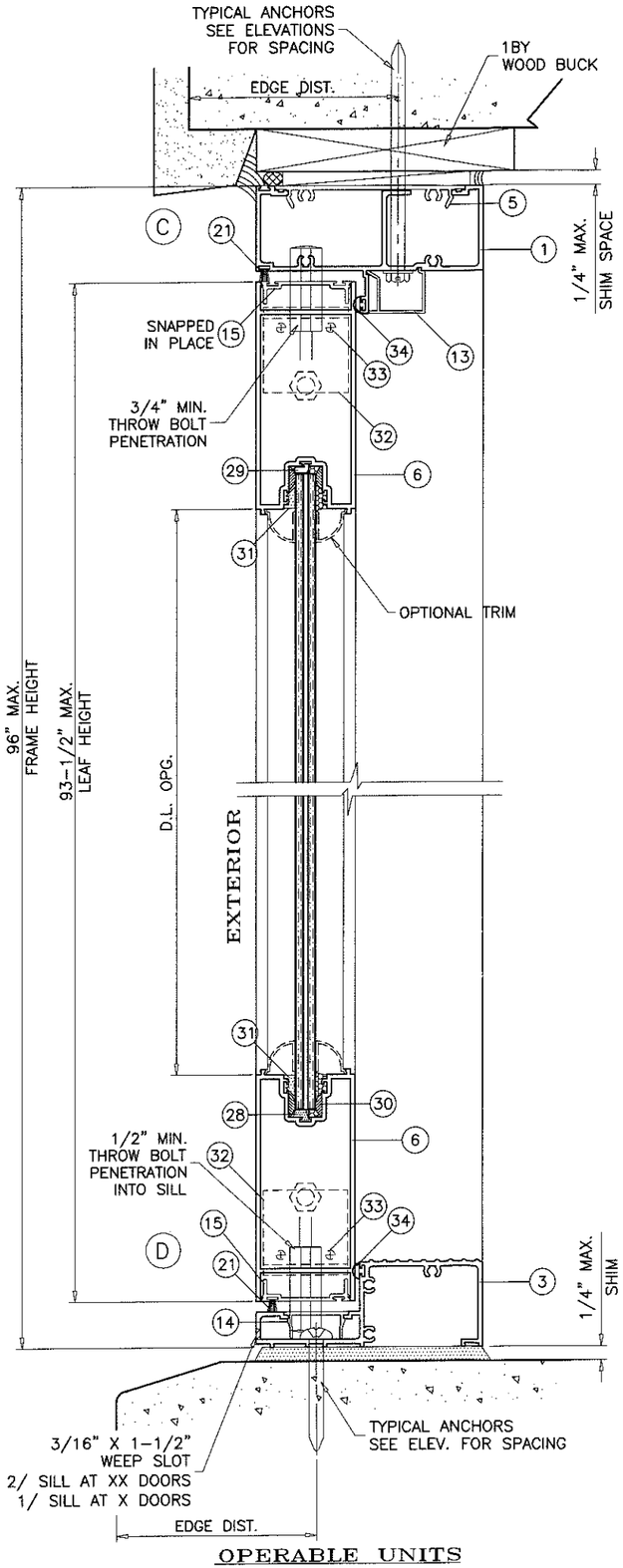
date: 06-10-04
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no. W04-51

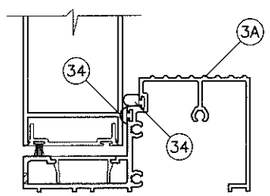
sheet 2.2 of 7



STATIONARY UNITS

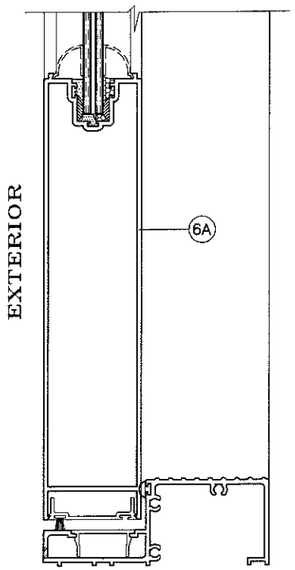


OPERABLE UNITS



HI-RISE FRAME SILL

APPLICABLE TO STATIONARY AND OPERABLE UNITS



HI-PROFILE BOTTOM RAIL

APPLICABLE TO STATIONARY AND OPERABLE UNITS

PRODUCT REVISED
to complying with the Florida Building Code
Acceptance No. 16-0316.02
Expiration Date 12/16/17
Miami-Dade Product Control

NOV 09 2016

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\W04-51ESW

SERIES-3000 ALUM OUTSWING FRENCH DOOR (L.M.I.)

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MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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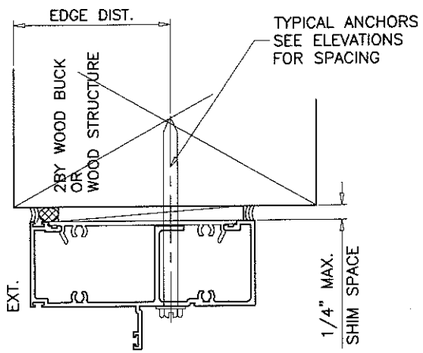
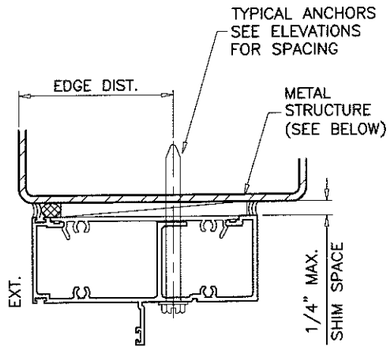
K	10.31.16		NO CHANGE THIS SHEET

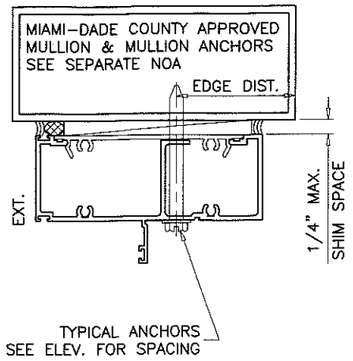
date: 06-10-04
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W04-51

sheet 3 of 7







WOOD BUCKS AND METAL STRUCTURE NOT BY E.S. WINDOWS MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)

THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/4" MIN. EMBED INTO MASONRY (JAMBS)

DIRECTLY INTO CONCRETE OR MASONRY
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" 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.

SEALANTS:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

NOV 09 2016

PRODUCT REVISED
to complying with the Florida
building Code
Acceptance No. 16-03/6-06
Expiration Date 12/16/17
By [signature]
Title: Chief, Product Control

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\W04-51ESW

SERIES-3000 ALUM OUTSWING FRENCH DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5158 FAX. (305) 638-5151

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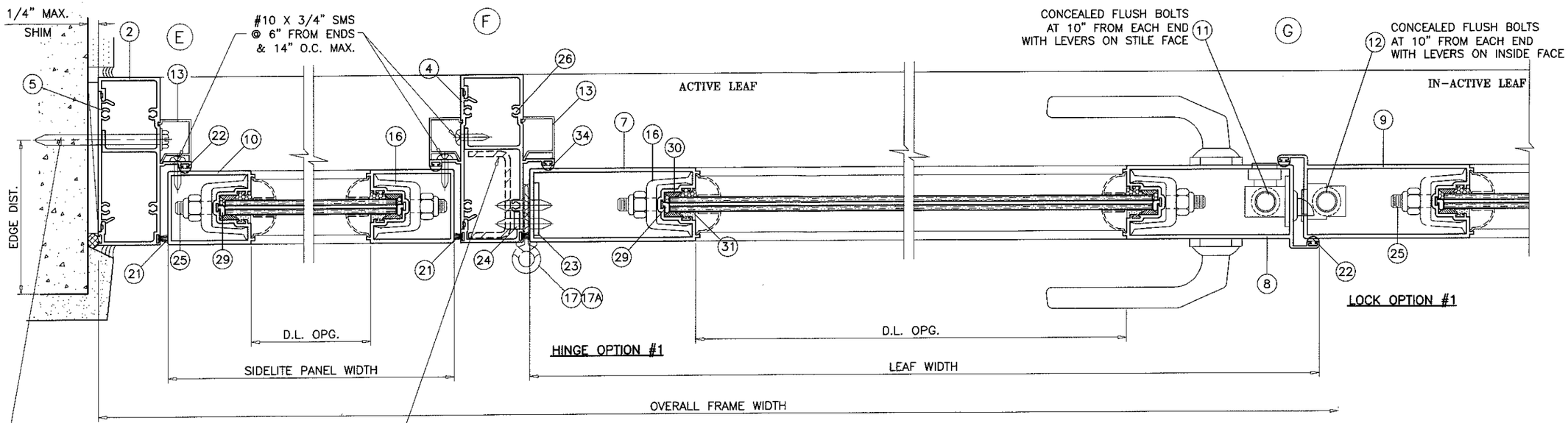
dr. by: TARIQ
chk. by:

drawing no.
W04-51

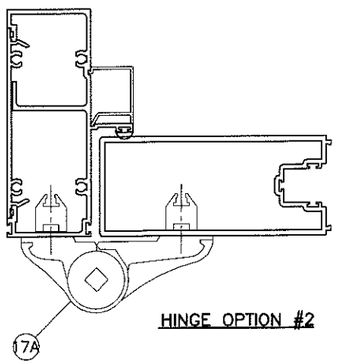
sheet 4 of 7

(FLUSH BOLTS AT ACTIVE AND INACTIVE LEAFS
MUST BE ENGAGED DURING PERIODS
OF HURRICANE WARNING)



EXTERIOR

(OXXO)



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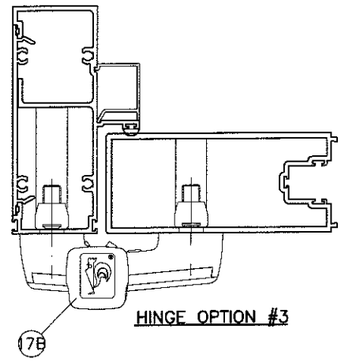
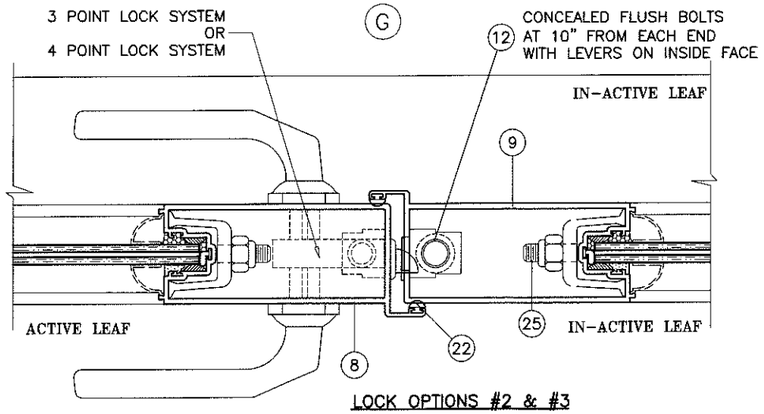


HINGE OPTION #3



LOCK OPTIONS #2 & #3

NOV 09 2016

PRODUCT REVISED
In complying with the Florida
Building Code
Acceptance No. 16-0316.06
Expiration Date 12/16/17
By [signature]
Miami-Dade Product Control

JAVAD AHMAD
LICENSE
No. 78282
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
MIAMI, FLORIDA 33173
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COMP-ANL\W04-51ESW

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chk. by:

drawing no.
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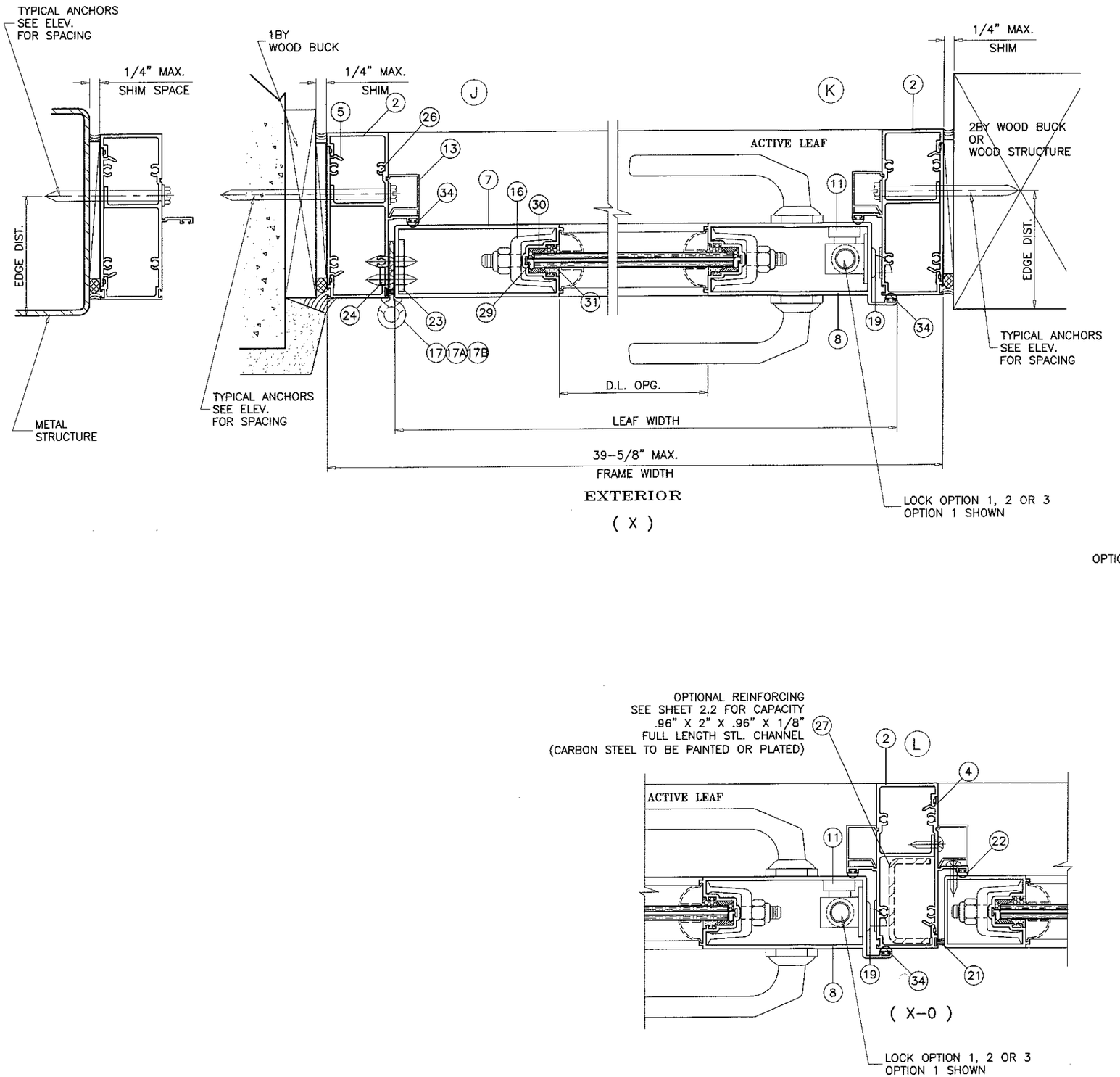
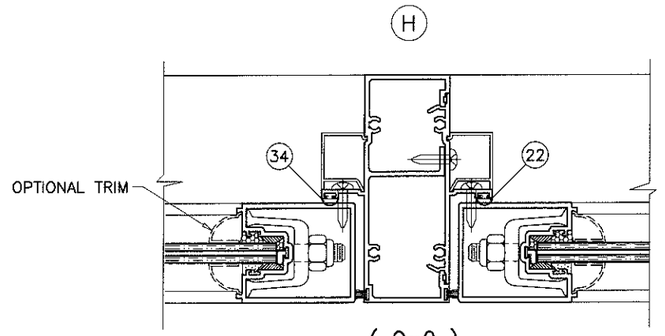
sheet 5 of 7



EXTERIOR

(X)



(O-O)

SIDELITE TO SIDELITE

(X-O)

PRODUCT REVISED
no complying with the Florida
building Code
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By: [signature]
MD or Dade Product Control

NOV 09 2016

JAVAD AHMAD
LICENSE
No. 70392
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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chk. by:

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sheet 5.1 of 7

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES3001–1	1	FRAME HEAD	6063–T6	–
2	ES3001–2	2	DOOR FRAME JAMB	6063–T6	–
3	ES3002–1	1	FRAME SILL (STANDARD)	6063–T5	–
3A	ES3025	1	FRAME SILL (HI–RISE)	6063–T5	–
4	ES3003–1	AS REQD.	SIDELITE ADAPTER	6063–T6	–
5	ES3004	AS REQD.	SHEAR PLATE @ ANCHOR LOCATIONS	6063–T6	3" LONG
6	ES3005–1	2/ LEAF	TOP AND BOTTOM RAIL	6063–T5	–
6A	ES3024	2/ LEAF	HI–PROFILE BOTTOM RAIL	6063–T5	–
7	ES3006–1	1/ LEAF	DOOR LEAF JAMB – HINGE SIDE	6063–T5	–
8	ES3007–1	1/ LEAF	DOOR LEAF – LOCK SIDE	6063–T6	–
9	ES3007–2	1/ LEAF	DOOR LEAF – KEEPER SIDE	6063–T6	–
10	ES3008–1	AS REQD.	SIDELITE STILE	6063–T5	–
11	FB–1202–914	2/ LEAF	CONCEALED FLUSH BOLT	STEEL	SULLIVAN & ASSOCIATES
12	FB–1202–914	2/ LEAF	CONCEALED FLUSH BOLT	STEEL	SULLIVAN & ASSOCIATES
13	ES3011	AS REQD.	JAMB TRIM	6063–T5	OPTIONAL
14	ES3012	1	SILL COVER	6063–T6	–
15	ES3013	2/ LEAF	WEATHERSTRIP ADAPTER	6063–T5	–
16	ES3014–1	4/ PANEL	PANEL CLAMP	6063–T6	–
17	ES3003–3	3/ LEAF	HINGE ASSEMBLY	6063–T6	SEE SHEET 2
17A	–	2/ LEAF	PIVOT HINGES	–	SEE SHEET 2, MASTER
17B	M701	2/ LEAF	DR HAHN 2 PIECE HINGE, AT 6" FROM EACH END	DIE CAST ALUM	SEE SHEET 2
19	–	–	DOOR LOCK (SAVANNAH 201SL)	–	YALE
20	–	–	DEAD BOLT LOCK (PREMIER)	–	YALE
21	W22321NG	AS REQD.	FIN–SEAL PILE W'STRIPPING	–	ULTRAFAB
22	ES3020	AS REQD.	BULB WEATHERSTRIPPING	VINYL	AT SIDELITE PANELS
23	–	1/ HINGE	HINGE REINFORCING BAR	ALUMINUM	1–1/4"X1/8"X4–1/4" LONG
24	–	AS REQD.	HINGE REINFORCING BAR	ALUMINUM	1/8" THK. X 7–7/8" LONG
25	–	2/ LEAF	3/8" DIA. THREADED ROD W/ NUTS	STEEL	–
26	–	AS REQD.	FRAME ASSY. SCREWS	–	#10 PAN HEAD SMS
27	–	AS REQD.	MULLION REINF. CHANNEL (LENGTH = MULL HT. – 10")	A36 STEEL	–
28	ES4014	AS REQD.	BOTTOM RAIL GLASS STOP	NEOPRENE	–
29	ES4019	AS REQD.	PANEL SILICONE STOP	NEOPRENE	–
30	–	AS REQD.	3/8" DIA. X 1/8" HT. BUMPER	SILICONE	FRANK LOWE RUBBER CO.
31	ES4013	AS REQD.	WEDGE GASKET	SILICONE/EPDM	TREMCO
31A	ES–3000–G01	AS REQD.	WEDGE GASKET	SILICONE/EPDM	TREMCO
32	ES3022	2/ STILE	FLUSH BOLT BRACKET	6063–T5	–
33	–	2/ BKT.	BRACKET INSTALLATION SCREWS	–	#10 X 1" FH SMS
34	Q/LON	AS REQD.	DOOR PANEL W'STRIPPING	–	SCHLEGEL
35	–	AS REQD.	1/16" X 1/2" GLAZING TAPE	URETHANE	SAINT GOBAIN
36	–	AS REQD.	1/8" X 1/2" GLAZING TAPE	URETHANE	SAINT GOBAIN

PRODUCT REVISED
to complying with the Florida
Building Code
Acceptance No. 16-0816.06
Expiration Date 12/16/17
By [signature]
Miami-Dade County

NOV 09 2016

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\W04–51ESW

SERIES–3000 ALUM OUTSWING FRENCH DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638–5151 FAX. (305) 638–5158

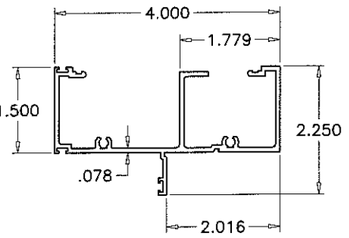
revisions:

no	date	by	description
H	05.29.15		UPDATED TO 2014 FBC
I	08.27.15		REV. PER RER COMMENTS
J	05.18.16		HINGE & GLASS OPTIONS ADDED
K	10.31.16		REV. PER RER COMMENTS

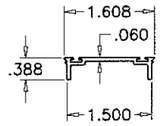
date: 06–10–04
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W04–51

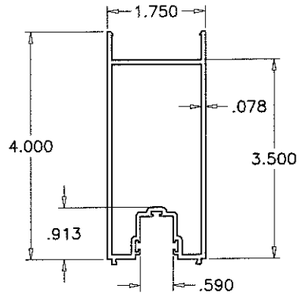
sheet 6 of 7



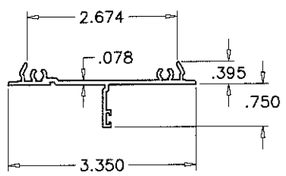
(1) (2) FRAME HEAD/JAMB



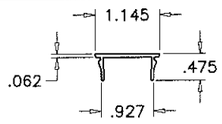
(15) WEATHERSTRIP ADAPTER



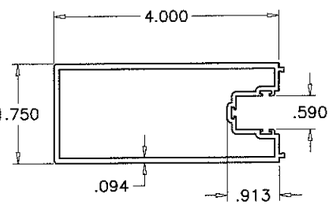
(6) TOP/BOTTOM RAIL



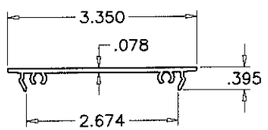
(4) SIDELITE ADAPTER



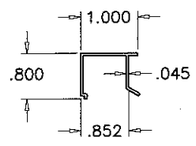
(14) SILL COVER



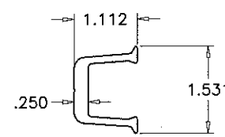
(7) HINGE STILE



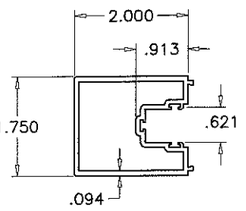
(5) SHEAR PLATE



(13) JAMB TRIM (OPTIONAL)



(16) PANEL CLAMP



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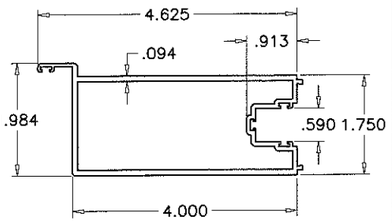
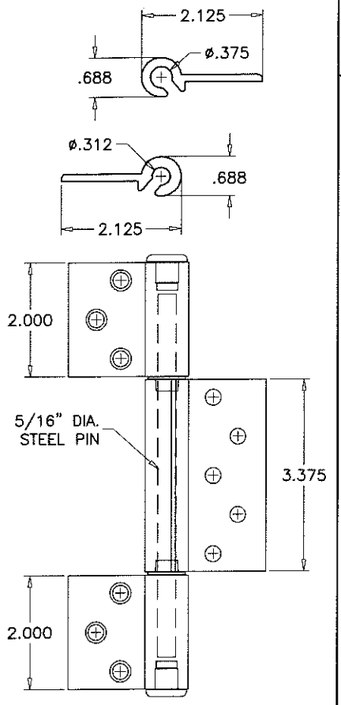
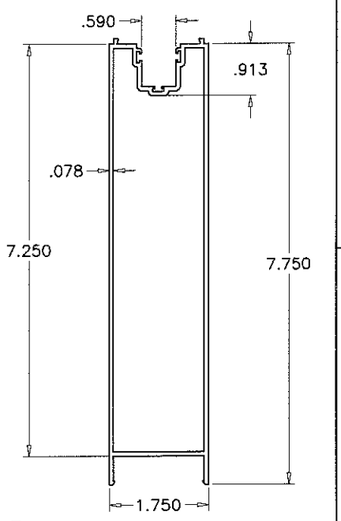


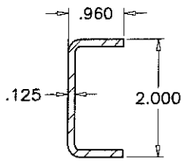
(8) (9) LOCK STILE/KEEPER STILE



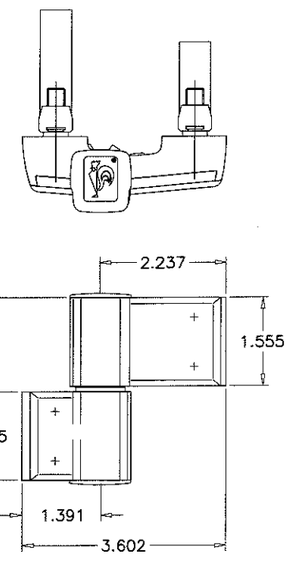
(17) 3 PIECE HINGE



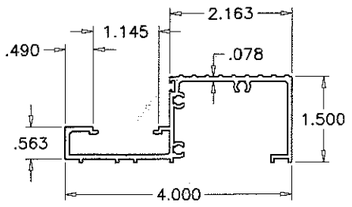
(6A) HI-PROFILE BOTTOM RAIL



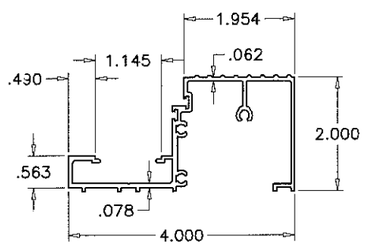
(27) MULLION REINF. CHANNEL



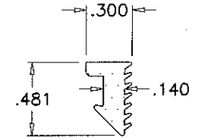
(17B) DIE CAST ALUMINUM HINGE



(3) FRAME SILL (STD.)

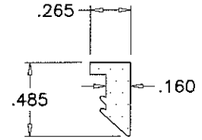


(3A) FRAME SILL (HI-RISE)



MATERIAL = SILICONE/EPDM
HARDNESS = 70±5

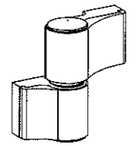
(31)



MATERIAL = SILICONE/EPDM
HARDNESS = 70±5

(31A)

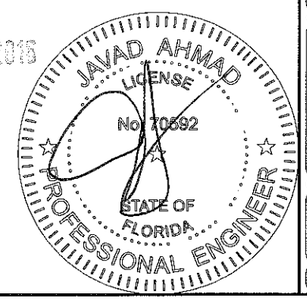
GLAZING GASKETS
SCALE 1:1



(17A) PIVOT HINGE

PRODUCT REVISED
as complying with the Florida
building Code
Acceptance No. 16-0316.06
Expiration Date 12/14/17
By [signature]
Miami-Dade Product Control

NOV 09 2016



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\W04-51ESW

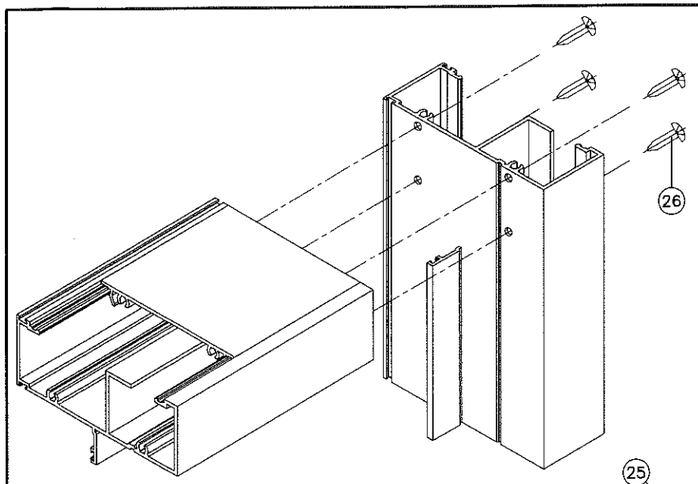
SERIES-3000 ALUM OUTSWING FRENCH DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

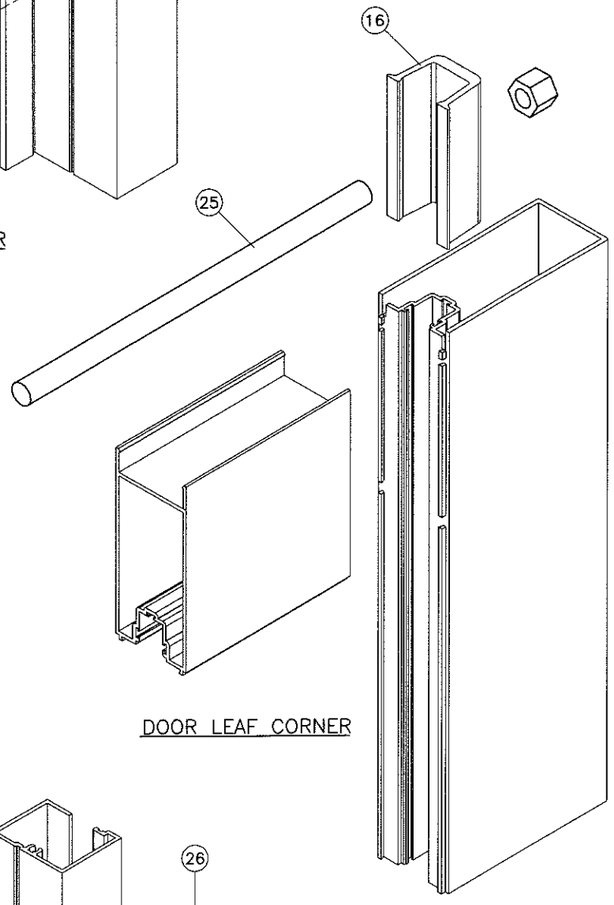
revisions:			
no	date	by	description
H	05.29.15		UPDATED TO 2014 FBC
I	08.27.15		NO CHANGE THIS SHEET
J	05.18.16		HINGE & GLASS OPTIONS ADDED
K	10.31.16		REV. PER RER COMMENTS

date: 06-10-04
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

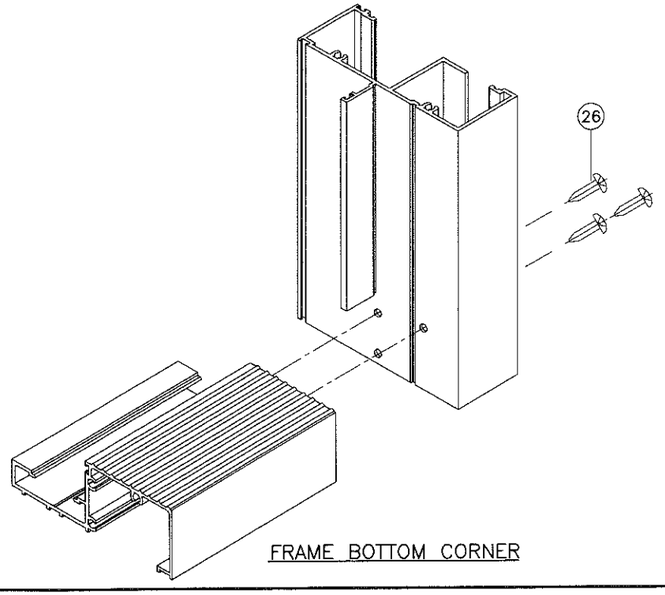
drawing no.
W04-51
sheet 6.1 of 7



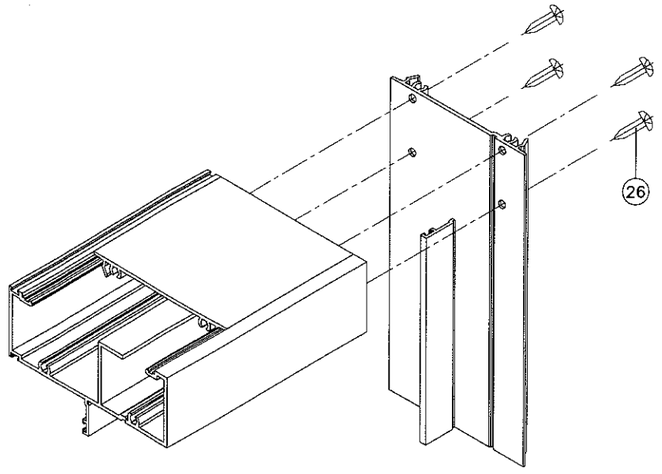
FRAME TOP CORNER



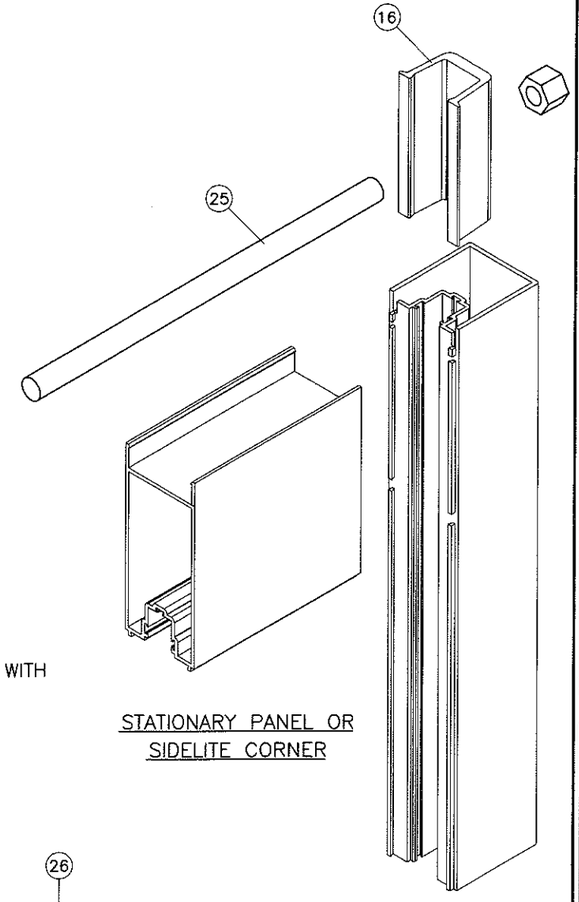
DOOR LEAF CORNER



FRAME BOTTOM CORNER



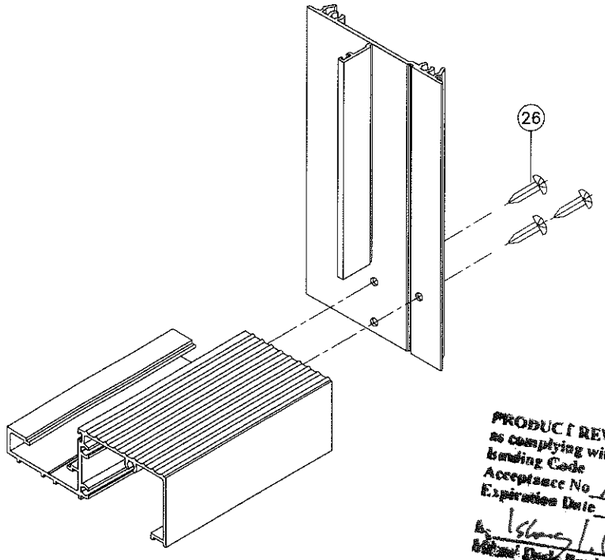
SIDELITE ADAPTER TOP CORNER



STATIONARY PANEL OR SIDELITE CORNER

SEALANTS:

ALL FRAME AND LEAF JOINTS AND SEAMS SEALED WITH DOW CORNING 791 SEALANT.



SIDELITE ADAPTER BOTTOM CORNER

NOV 03 2016

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 16-0316-06 Expiration Date DEC 16 2017

By [signature] Product Control

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

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sheet 7 of 7