

**CGI Windows & Doors**  
10100 N. W. 25<sup>th</sup> 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 PERA -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. PERA 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" Inswing Aluminum Door w/wo Sidelites - Impact**

**APPROVAL DOCUMENT:** Drawing No. **W06-73**, titled "Series 450 Inswing Doors & Sidelites", sheets 1, 1.1, 2 through 7.1 of 7, prepared by Al-Farooq Corporation, dated 10/27/06 and last revised on July 28, 2009, signed and sealed by Arshad Viqar, 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 sheets 6 & 7 for unit sizes, anchors and design pressure ratings
2. For mullied units lower design pressure of doors or mullion shall control.
3. 1x or 2x bucks to be properly secured to transfer the imposed loads.
4. Ext design pressure= +50 psf w/ Sill type S-1 and SS type sill is not rated for water infiltration.

**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", unless otherwise noted herein.

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

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

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

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews** NOA # **09-0803.05** and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

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

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturer's die drawings and sections (Original in file# **09-0803.05**)
2. Drawing No. **W06-73**, titled "Series 450 Inswing Doors & Sidelites", sheets 1, 1.1, 2 through 7.1 of 7, prepared by Al-Farooq Corporation, dated 10/20/97 and last revised on July 14, 2009, signed and sealed by Arshad Viqar, P.E.

**B. TESTS (Original in file # 09-0803.05)** Original test conducted per FBC, PA 201, 202 & 203-94 now known as FBC, TAS 201, 202 & 203-94.

1. Test report on 1) Air Infiltration Test, per PA 202-94  
2) Uniform Static Air Pressure Test, Loading per PA 202-94  
3) Water Resistance Test, per PA 202-94.  
4) Forced Entry Test, per SFBC 3603.2 (b) and PA 202-94  
5) Large Missile Impact Test per SFBC and PA201-94  
6) Cyclic Wind Pressure Loading per SFBC and PA203-94

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

Along with manufacturer's parts and section drawing marked-up drawings of aluminum out swing door w/sidelites, by Hurricane Testing Laboratory, Inc., Test Report No. **HTL-01071 (0080-0402-02)** dated 04/01/20028 tested per PA201-94 & PA203-94, signed and sealed by Vinu Abraham, P.E.

2. Renewal Reference: Additional test report # **HTL-0080-0304.11**, issued by Hurricane Testing lab dated 08/03/11, signed & sealed by Vinu J. Abraham, P.E.

**C. CALCULATIONS (Original in file # 09-0803.05)**

1. Anchor verification calculations, complying w/ FBC 2007, prepared by Al-Farooq Corporation, dated July 14, 2009, signed and sealed by Arshad Viqar, P.E.
2. Glazing complies with ASTM E-1300-02 & -04

**D. QUALITY ASSURANCE**

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

**E. MATERIAL CERTIFICATIONS**

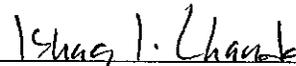
1. Notice of Acceptance No. 09-0127.13 issued to Solutia, Inc. for "*Solutia Interlayers for laminated glass*", expiring on 04/04/2014.

**F. STATEMENTS (Original in file # 09-0803.05)**

1. Statement letter of conformance and "no financial interest", dated July 06, 2009, prepared by Al-Farooq Corporation, signed by Arshad Viqar, P.E.
2. Letter of lab compliance, part of the above test reports.

**G. OTHER**

1. This NOA renews NOA # **09-0803.05**, expiring Nov. 09, 2011.
2. Previous associated files #07-0228.01, 06-0127.02, 03-0422.02, 01-1109.03 and 98-0608.20
3. Test proposal # **09-0033**, approved on 05/09/97.

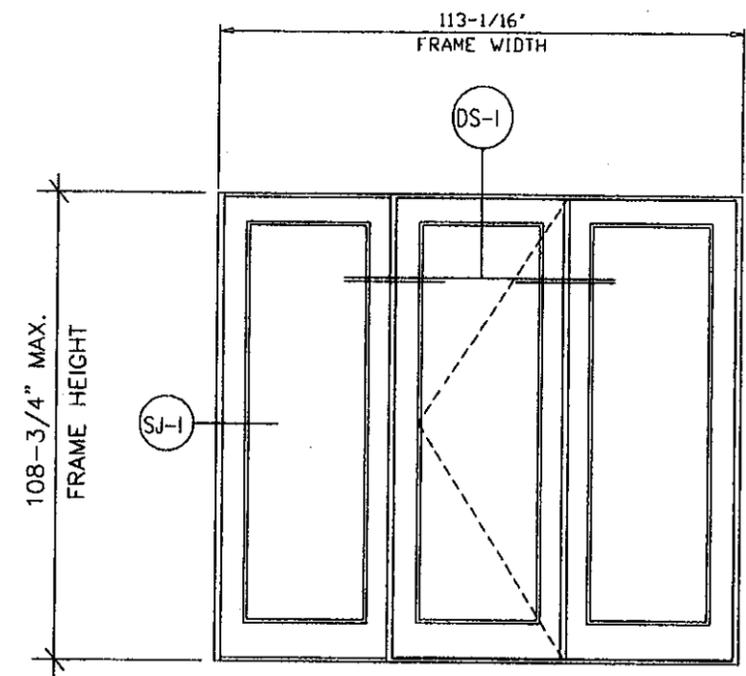
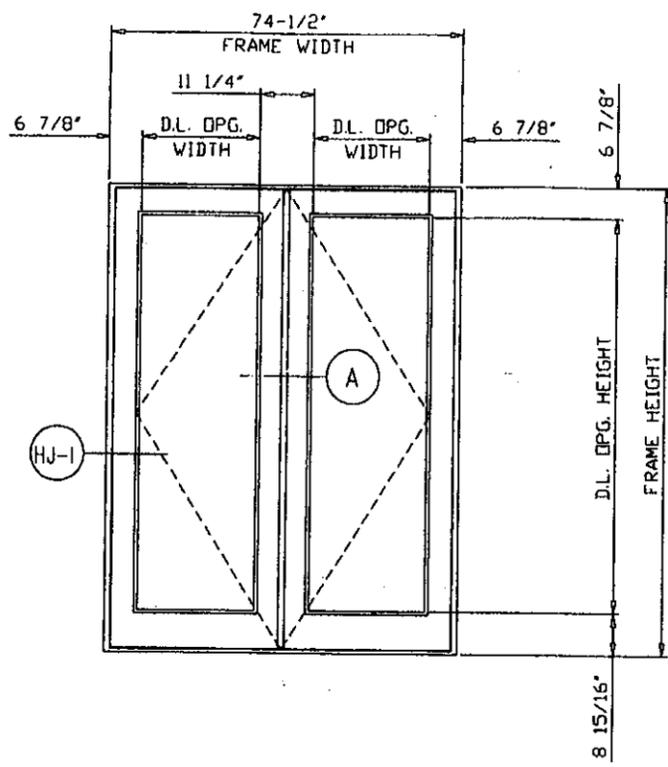
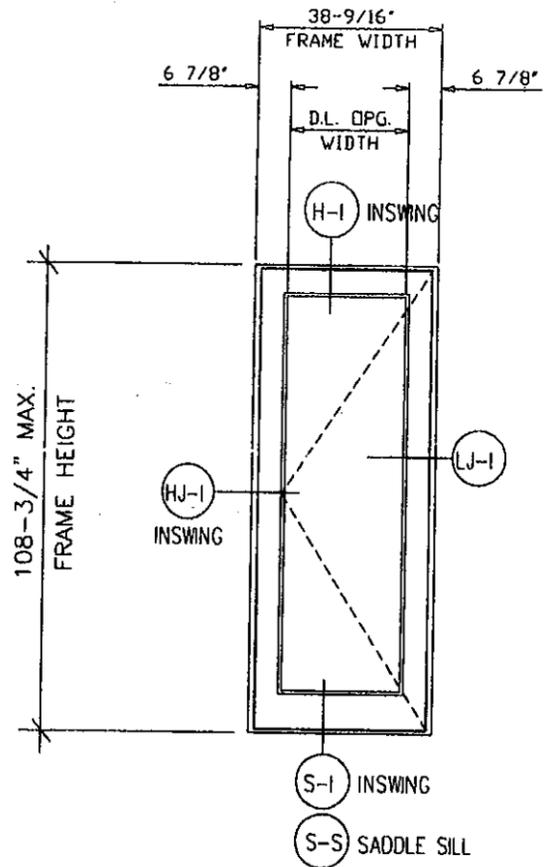


Ishaq I. Chanda, P.E.  
Product Control Examiner  
NOA No 11-0912.13

Expiration Date: November 09, 2016  
Approval Date: November 04, 2011

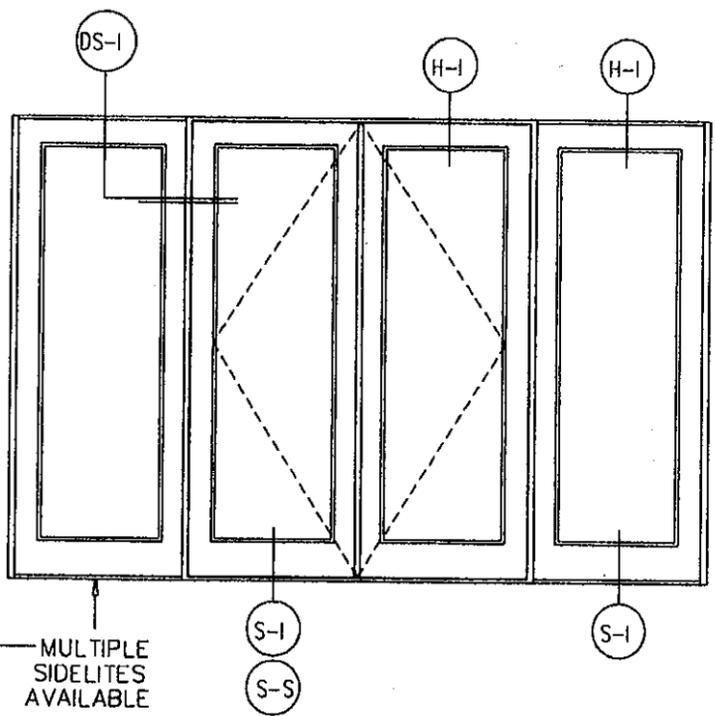
# TYPICAL ELEVATIONS

TYPICAL ANCHORS SPACED AS SHOWN IN DETAILS AND CHARTS.  
 ANCHORS TO BE AT 6" FROM CORNERS  
 MAX. SPACING 24" O.C. AT HEAD & SILL.



FRAME HEIGHT = PANEL HEIGHT + 1.750"  
 FRAME WIDTH = PANEL WIDTH + 2.750"

STEPS TO USE CHARTS/GRAPHS  
 SEE SHEETS 6 & 7.



PANEL WIDTH	D.L. OPG. WIDTH
24"	12-7/8"
30"	18-7/8"
36"	24 7/8"
42"	30-7/8"

PANEL HEIGHT	D.L. OPG. HEIGHT
80"	66-1/2"
84"	70-1/2"
90"	76-1/2"
96"	82-1/2"
108"	94-1/2"

**LEGEND**

— I — INSWING DOOR DETAIL

□ — ITEM DESCRIPTION (see sheet 2 of 7)

**PRODUCT RENEWED**  
 as complying with the Florida Building Code  
 Acceptance No. 11-0912.13  
 Expiration Date Nov 09, 2016  
 By *Chas. I. Chayda*  
 Miami Dade Product Control Division

Engr: ARSHAD VIQAR  
 CIVIL  
 FLA. PE # 38863  
 C.A.N. 3538

*AV*

JUL 28 2009

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No. 09-0803.05  
 Expiration Date Nov 09, 2011  
 By *Chas. I. Chayda*  
 Miami Dade Product Control Division

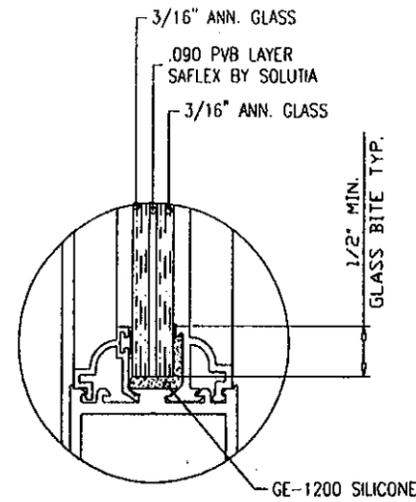
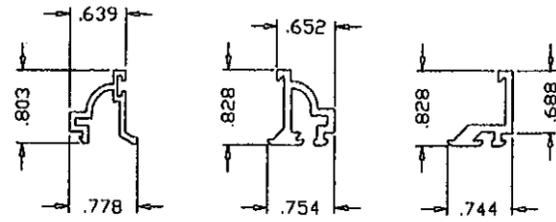
revisions:  
 A 07.23.09 UPDATED FOR 2007 FBC

W06-73

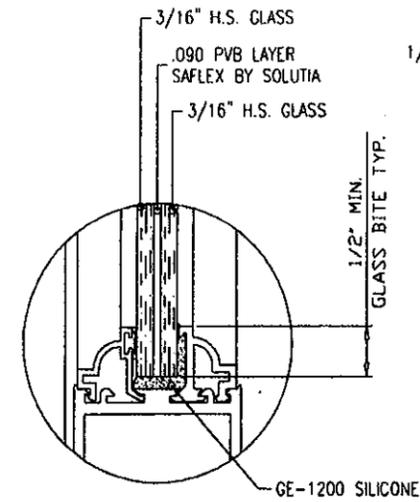
**CGI**  
 WINDOWS & DOORS  
 10100 northwest 25 street miami, florida 33172

product : Series 450 INSWING Doors & Sidelites  
 date : 10-27-06 sheet 1 of 7

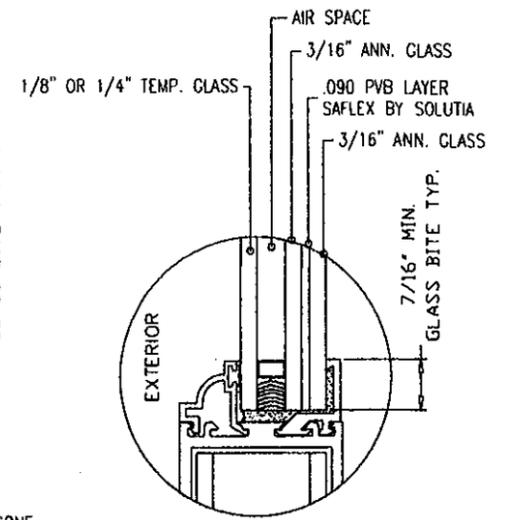
# TYPICAL ELEVATIONS



GLASS TYPE 13A

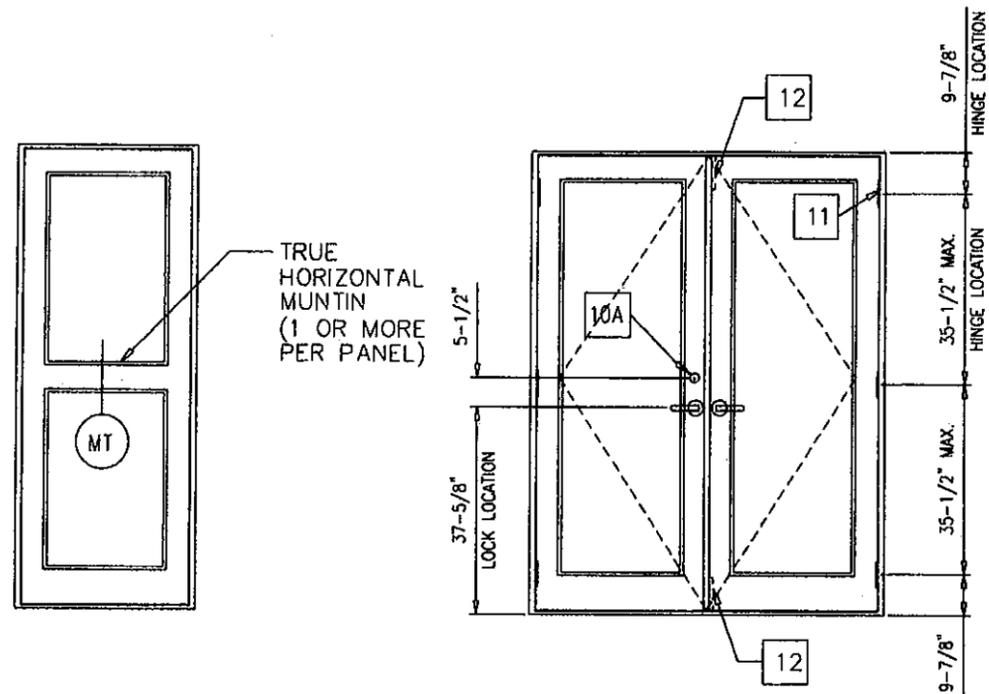


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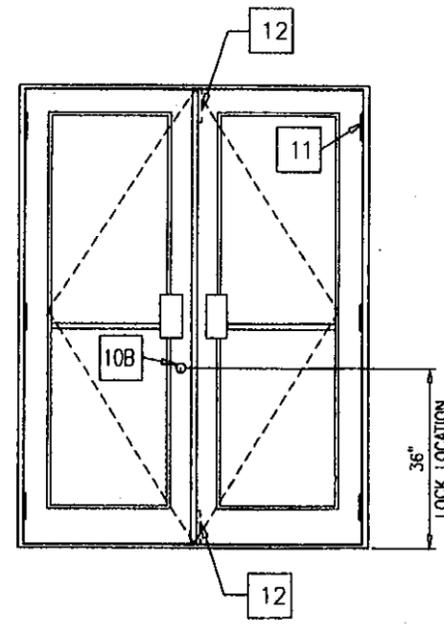


GLASS TYPE 13C

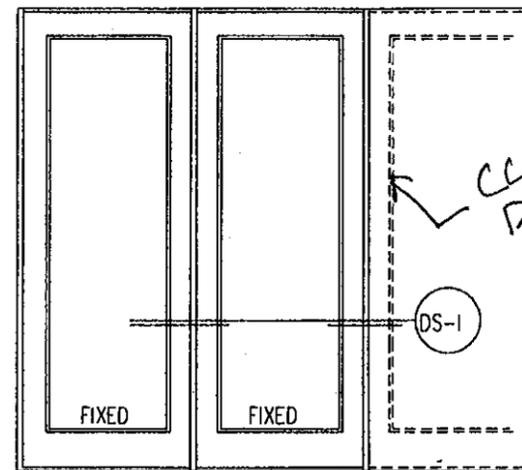
## TYPICAL GLAZING DETAILS



RESIDENTIAL HARDWARE



COMMERCIAL HARDWARE



LEGEND	
— I —	INSWING DOOR DETAIL
□	ITEM DESCRIPTION (see sheet 2 of 7)

HINGE LOCATIONS		
MAX. DOOR HEIGHT	NO. REQD.	MAX. SPACING
UPTD 90-3/4"	3	35 1/2"
ABOVE 90-3/4"	4	30 1/2"

OPTIONAL TRUE MUNTINS  
DOOR OR SIDELITE

HARDWARE DESCRIPTION

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
Acceptance No. 11-0912-13  
Expiration Date NOV 09, 2016  
By: *Shahid Chaudhry*  
Miami Data Product Control

Engr: ARSHAD VIQAR  
CIVIL  
FLA. PE # 38863  
C.A.N. 3538

*Shahid Chaudhry*  
Miami Data Product Control  
Division  
JUL 28 2009

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 09-0803-05  
Expiration Date NOV 09, 2011  
By: *Shahid Chaudhry*  
Miami Data Product Control  
Division

revisions:  
A 07.23.09 UPDATED FOR 2007 FBC

W06-73



**CGI**  
WINDOWS & DOORS

10100 northwest 25 street miami, florida 33172

product : Series 450 INSWING Doors & Sidelites	
date : 10-27-06	sheet 1.1 of 7

# BILL OF MATERIALS

ITEM	DESCRIPTION
1	#12 X 1 1/4" HEX HEAD S/S SMS (3 PER 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 3/16" 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 & 24" 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	THREE POINT LOCK AT ACTIVE LEAF
10A	CUSTOM CGI THREE POINT LOCK MECHANISM WHICH CONSISTS OF (1) TITAN KWIKSET SERIES 780 DEADBOLT (OR EQUAL) (2) DEADBOLT LATCH (TOP & BOTTOM) AND CUSTOM CGI INTERIOR LINKAGE MECHANISM
10B	REFLECTOLITE SERIES 6000 THREE POINT LOCK MECHANISM
11	HAGER 4 1/2" X 4" SOLID BRASS (OR S/S) HINGE SECURED WITH (8) #12-24 X 1/2" BRASS F.H. M.S. (3 PER PANEL UP TO 7'-6 3/4" HIGH) (4 PER PANEL OVER 7'-6 3/4" TO 9'-0 3/4" HIGH)
12	FLUSHBOLT AT TOP & BOTTOM OF INACTIVE LEAF (DELTA MODEL 5509) WITH REINFORCED TIP

13	13A	1/2" NOMINAL (.466 ACTUAL) ANNEALED LAMINATED GLASS (2 PCS.) 3/16" THK. ANN. GLASS AND .090" SAFLEX INTERLAYER
	13B	1/2" NOMINAL (.466 ACTUAL) HEAT STREN'D LAMINATED GLASS (2 PCS.) 3/16" THK. H.S. GLASS AND .090" SAFLEX INTERLAYER
	13C	1" NOMINAL (.966 ACTUAL) INSUL. ANN. LAMINATED GLASS 1/8" TEMP. GLASS (OUTBOARD), 3/8" AIR SPACE AND (2 PCS.) 3/16" THK. ANN. GLASS AND .090" SAFLEX INTERLAYER OR 1" NOMINAL (.966 ACTUAL) INSUL. ANN. LAMINATED GLASS 1/4" TEMP. GLASS (OUTBOARD), 1/4" AIR SPACE AND (2 PCS.) 3/16" THK. ANN. GLASS AND .090" SAFLEX INTERLAYER
14		GE-1200 SILICONE
15		3/4" X 1 1/4" X 3/4" X 1/8" THK. CONTINUOUS ALUMINUM CHANNEL SECURED WITH INSTALLATION SCREWS (SEE ITEM 5)
16		1/2" THK. (nom) CUSTOM ALUMINUM PANEL CONSISTING OF (2) .090 THK. ALUM. SHEETS & (1) 1/4" PLYWOOD AT CENTER
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 500, 501, 502, 506, 507, 508, 509, 510 & 511  
ALL EXTRUSIONS ARE 6063-T6.

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
Acceptance No 11-0912.13  
Expiration Date NOV 09, 2016  
By Shahid Chaudhry  
Miami Dade Product Control  
Division

Engr: ARSHAD VIQAR  
CIVIL  
FLA. PE # 38863  
C.A.N. 3538

*A*  
JUL 28 2009

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No 07-0803.05  
Expiration Date NOV 09, 2011  
By Shahid Chaudhry  
Miami Dade Product Control  
Division

revisions:  
A 07.23.09 UPDATED FOR 2007 FBC

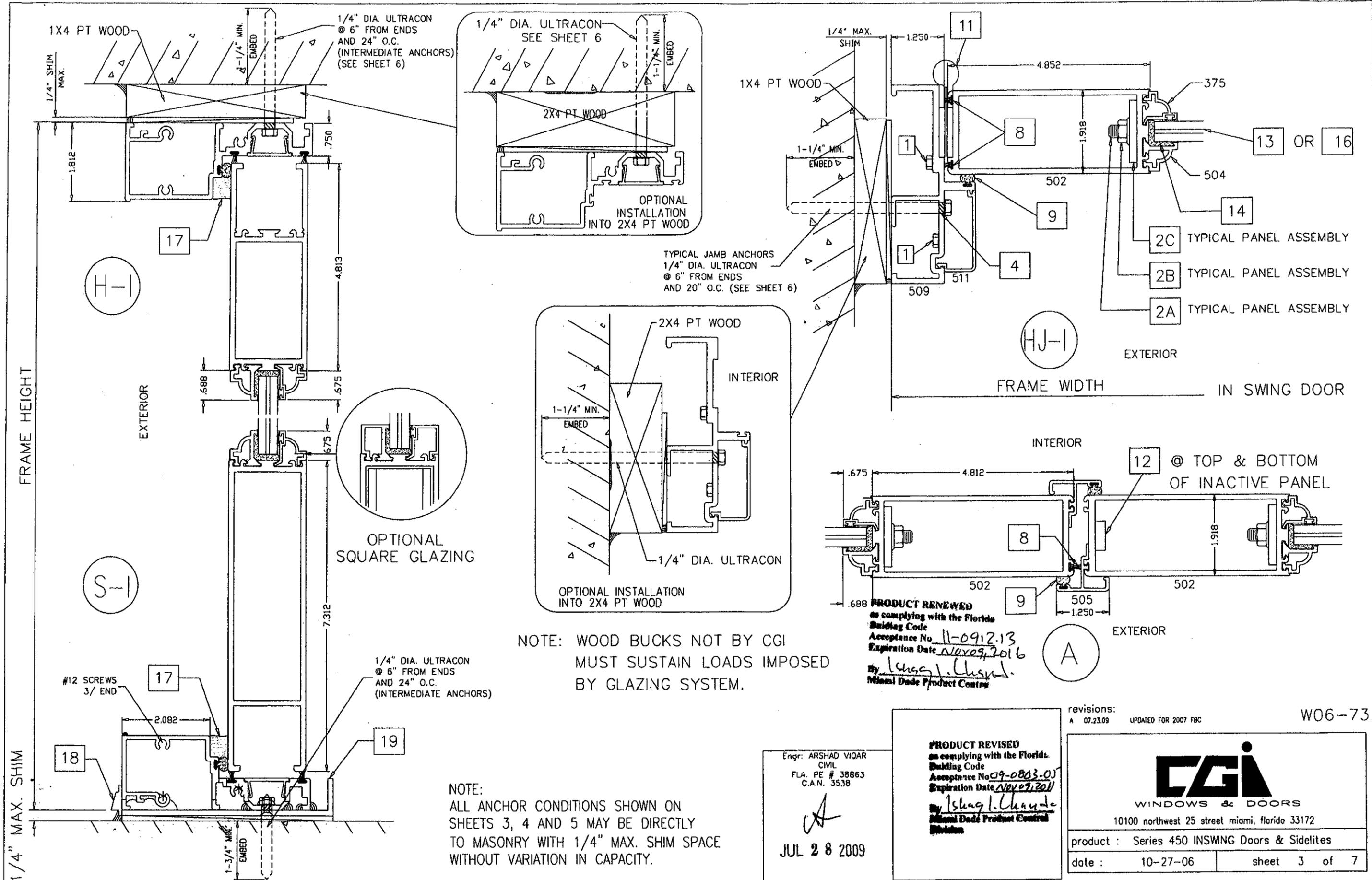
W06-73

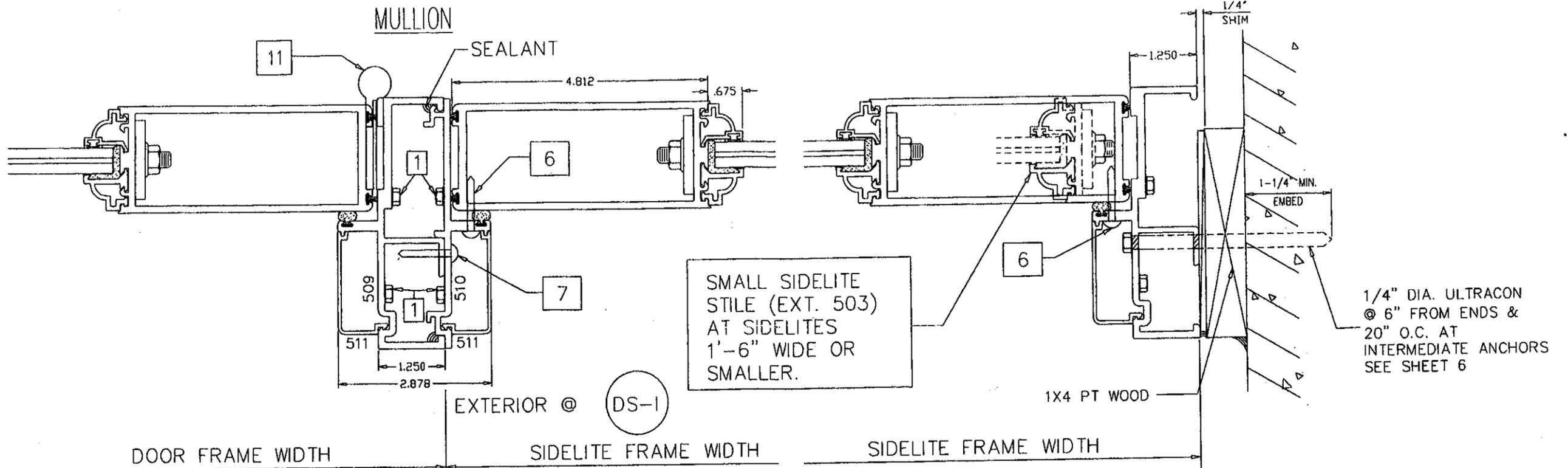


WINDOWS & DOORS  
10100 northwest 25 street miami, florida 33172

product : Series 450 INSWING Doors & Sidelites

date : 10-27-06 sheet 2 of 7





SMALL SIDELITE STILE (EXT. 503) AT SIDELITES 1'-6" WIDE OR SMALLER.

1/4" DIA. ULTRACON @ 6" FROM ENDS & 20" O.C. AT INTERMEDIATE ANCHORS SEE SHEET 6

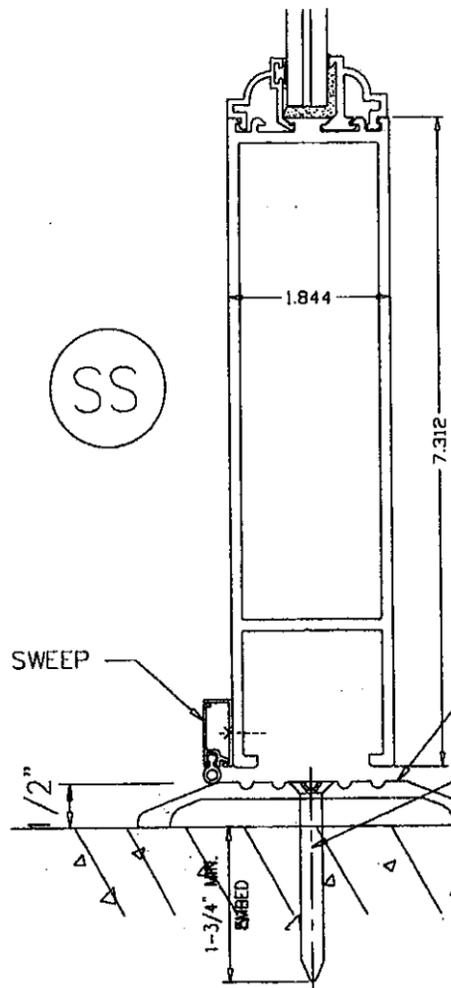
DOOR FRAME WIDTH

SIDELITE FRAME WIDTH

SIDELITE FRAME WIDTH

DS-1

SJ-1



THIS SILL IS NOT RATED FOR WATER

4" WIDE SADDLE THRESHOLD

1/4" DIA. ULTRACON @ 6" FROM ENDS & 24" O.C.

REFER TO SHEET 2 OF 7 FOR TYPICAL BILL OF MATERIALS

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 11-0912.13 Expiration Date NOV 9, 2016 By Shah J. Chande Miami Dade Product Control Division

revisions: A 07.23.09 UPDATED FOR 2007 FBC

W06-73

Engr: ARSHAD VIGAR CIVIL FLA. PE # 38863 C.A.N. 3538

*A*

JUL 28 2009

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 09-0803-05 Expiration Date NOV 09, 2011 By Shah J. Chande Miami Dade Product Control Division



WINDOWS & DOORS

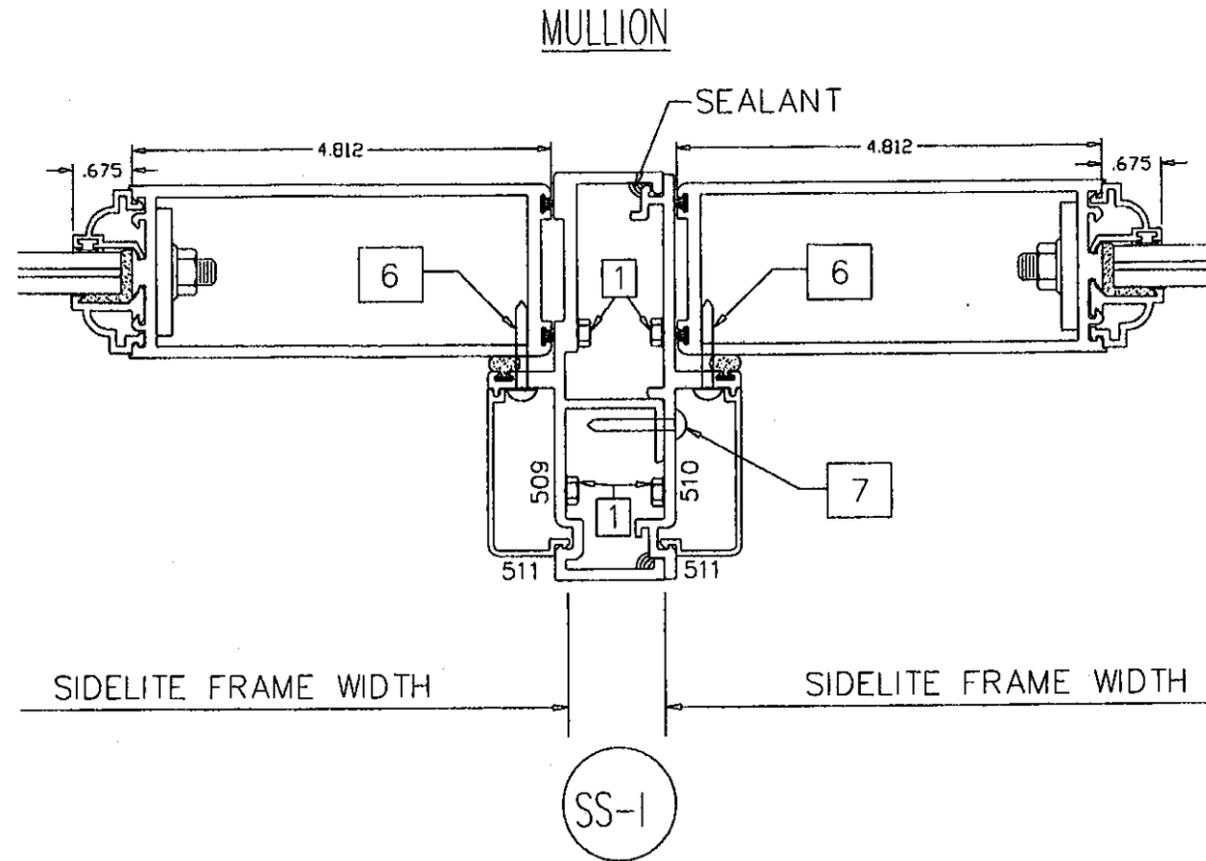
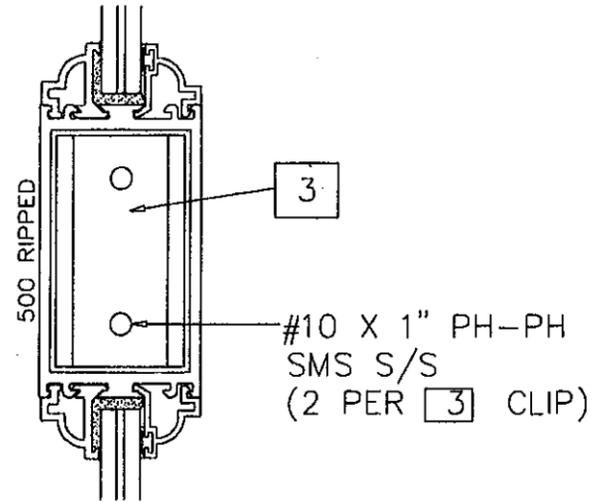
10100 northwest 25 street miami, florida 33172

product : Series 450 INSWING Doors & Sidelites

date : 10-27-06

sheet 4 of 7

MT



REFER TO SHEET 2 OF 7 FOR TYPICAL BILL OF MATERIALS

**PRODUCT RENEWED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 11-0912-13  
 Expiration Date NOV 09, 2016  
 By Ishag L. Khan  
 Miami Dade Product Control

revisions:  
 A 07.23.09 UPDATED FOR 2007 FBC

W06-73

Engr: ARSHAD VIQAR  
 CIVIL  
 FLA. PE # 38863  
 C.A.N. 3538

*[Signature]*  
 JUL 28 2009

**PRODUCT REVISED**  
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 By Ishag L. Khan  
 Miami Dade Product Control



WINDOWS & DOORS

10100 northwest 25 street miami, florida 33172

product : Series 450 INSWING Doors & Sidelites

date : 10-27-06

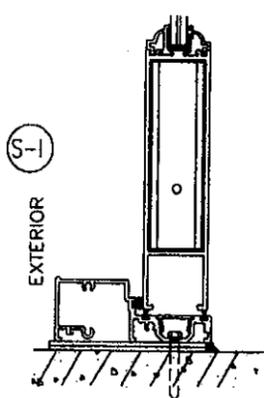
sheet 5 of 7

PANEL PERFORMANCE CHART FOR DOORS, SINGLE SIDELITES AND MULLIONS  
LAMINATED GLASS

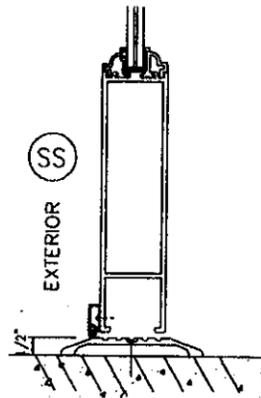
NOMINAL DIMS.		IN-SWING DESIGN LOAD CAPACITY-PSF				MULLION LOAD CAPACITY PSF
PANEL WIDTH	PANEL HEIGHT	ANN. LAM. GLASS (TYPE 13A)		H.S. LAM. GLASS (TYPE 13B)		
		EXT.	INT.	EXT.	INT.	
2/0	6/8	100.0	100.0	100.0	110.0	110.0
2/6		100.0	100.0	100.0	110.0	110.0
3/0		100.0	100.0	100.0	110.0	110.0
3/6		87.1	87.1	100.0	110.0	110.0
2/0		100.0	100.0	100.0	110.0	110.0
2/6	7/0	100.0	100.0	100.0	110.0	110.0
3/0		100.0	100.0	100.0	110.0	110.0
3/6		82.6	82.6	100.0	110.0	110.0
2/0		100.0	100.0	100.0	110.0	110.0
2/6	7/6	100.0	100.0	100.0	110.0	110.0
3/0		100.0	100.0	100.0	110.0	110.0
3/6		76.8	76.8	100.0	102.9	110.0
2/0		100.0	100.0	100.0	110.0	110.0
2/6		8/0	100.0	100.0	100.0	110.0
3/0	100.0		100.0	100.0	110.0	110.0
2/0	100.0		100.0	100.0	110.0	110.0
2/6	9/0	100.0	100.0	100.0	110.0	96.6
3/0		100.0	100.0	100.0	100.0	80.5

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

NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-02/04 (3 SEC. GUSTS)  
AND FLORIDA BUILDING COMMISSION  
DECLARATORY STATEMENT DCA05-DEC-219



IN-SWING



IN-SWING (SADDLE)

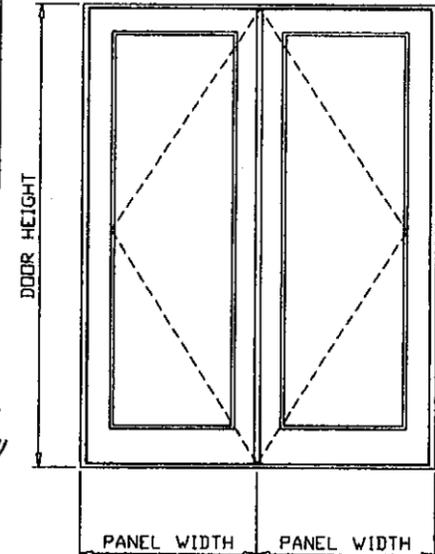
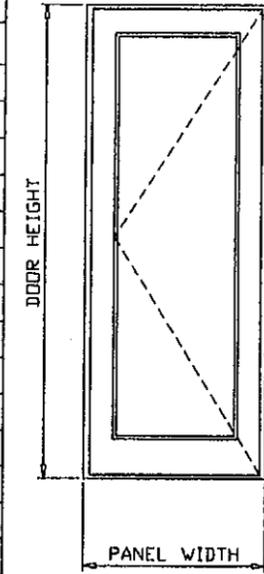
PANEL PERFORMANCE CHART FOR DOORS, SINGLE SIDELITES AND MULLIONS  
INSULATED LAMINATED GLASS

NOMINAL DIMS.		IN-SWING DESIGN LOAD CAPACITY-PSF	
PANEL WIDTH	PANEL HEIGHT	INSUL. ANN. LAM. GLASS (TYPE 13C)	
		EXT.	INT.
2/0	6/8	80.0	80.0
2/6		80.0	80.0
3/0		80.0	80.0
3/6		80.0	80.0
2/0		80.0	80.0
2/6	7/0	80.0	80.0
3/0		80.0	80.0
2/0		80.0	80.0
2/6	7/6	80.0	80.0
3/0		80.0	80.0
2/0	8/0	80.0	80.0
2/6		80.0	80.0
3/0		80.0	80.0

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

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
Acceptance No. 11-0912.13  
Expiration Date Nov 09, 2016  
By *Chang I. Chang*  
Miami Trade/Product Control

**PRODUCT REVISED**  
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Acceptance No. 09-0803-01  
Expiration Date Nov 09, 2011  
By *Chang I. Chang*  
Miami Trade/Product Control



THESE CHARTS CAN BE USED TO CHECK CAPACITY FOR  
SINGLE OR DOUBLE LEAF DOORS.  
REFER TO TABLES ON SHEET 7 TO DETERMINE ANCHORS REQUIRED.

**STEPS TO USE CHARTS:**

1. DETERMINE WIND LOAD BASED ON PROVISIONS OF 2007 FLORIDA BLDG. CODE.
2. DETERMINE WATER INFILTRATION REQUIREMENTS BASED ON PROVISIONS OF FBC.
3. SELECT A DOOR SYSTEM I.E. INSWING/OUTSWING AND TYPE OF THRESHOLD.
4. CHECK THE ALLOWABLE EXTERIOR AND INTERIOR LOADS FROM APPROPRIATE CHART. THE ALLOWABLE LOADS MUST MEET OR EXCEED THE DESIGN LOADS REQUIREMENTS.
5. SELECT AND CHECK ANCHORS TO MEET LOAD.
6. FOR MULLED SIDELITE REFER TO MULLION CAPACITY.

Engr: ARSHAD VIQAR  
CIVIL  
FLA. PE # 38863  
C.A.N. 3538  
*A*  
JUL 28 2009

*afc*

**AL-FAROOQ CORPORATION**  
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SERIES 450 INSWING DOOR AND SIDELITE  
CGI WINDOWS & DOORS  
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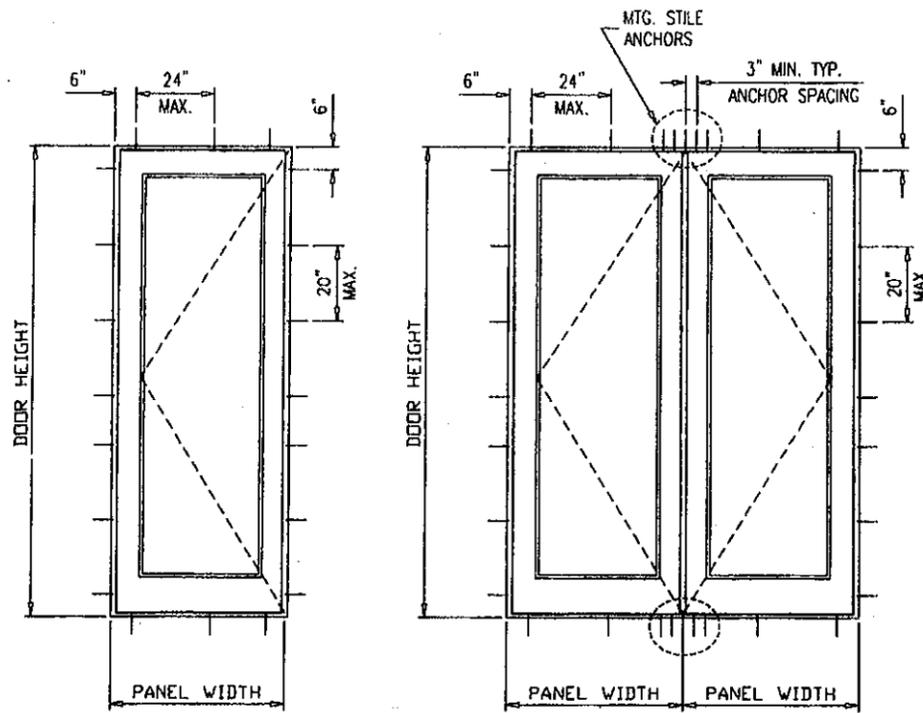
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dr. by: HAMID  
chk. by:

drawing no.  
**W06-73**

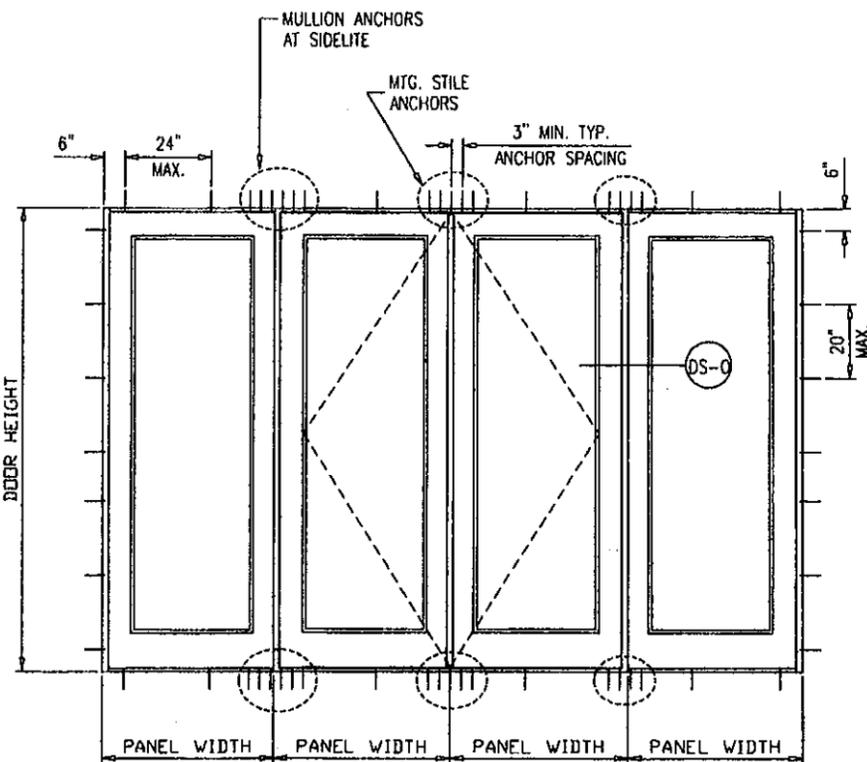
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COMP-ANL\W06-73CC



SINGLE DOOR OR SIDELITE

DOUBLE DOOR



FOR SIDELITE AVG. PANEL WIDTH =  $\frac{\text{DOOR PANEL} + \text{FIXED PANEL}}{2}$

NOMINAL DIMS		DESIGN LOAD CAPACITY-PSF				
PANEL WIDTH	PANEL HEIGHT	TYPE 'B'			TYPE 'C'	
		CLUSTER OF 2 ANCHORS	CLUSTER OF 4 ANCHORS	CLUSTER OF 6 ANCHORS	CLUSTER OF 2 ANCHORS	CLUSTER OF 4 ANCHORS
2/0	6/8	88.2	110.0	110.0	110.0	110.0
2/6		70.6	110.0	110.0	100.3	110.0
3/0		58.8	110.0	110.0	83.6	110.0
3/6		50.4	100.8	110.0	71.7	110.0
2/0	7/0	84.0	110.0	110.0	110.0	110.0
2/6		67.2	110.0	110.0	95.5	110.0
3/0		56.0	110.0	110.0	79.6	110.0
3/6		48.0	96.0	110.0	68.2	110.0
2/0	7/6	78.4	110.0	110.0	110.0	110.0
2/6		62.7	110.0	110.0	89.2	110.0
3/0		52.3	104.5	110.0	74.3	110.0
3/6		44.8	89.6	110.0	63.7	110.0
2/0	8/0	73.5	110.0	110.0	104.5	110.0
2/6		58.8	110.0	110.0	83.6	110.0
3/0		49.0	98.0	110.0	69.7	110.0
2/0	9/0	65.3	110.0	110.0	92.9	110.0
2/6		52.3	104.5	110.0	74.3	110.0
3/0		43.6	87.1	110.0	61.9	110.0

NOMINAL DIMS		DESIGN LOAD CAPACITY-PSF				
PANEL WIDTH	PANEL HEIGHT	TYPE 'B'			TYPE 'C'	
		CLUSTER OF 2 ANCHORS	CLUSTER OF 4 ANCHORS	CLUSTER OF 5 ANCHORS	CLUSTER OF 2 ANCHORS	CLUSTER OF 4 ANCHORS
2/0	6/8	88.2	110.0	110.0	110.0	110.0
2/6		70.6	110.0	110.0	100.3	110.0
3/0		58.8	110.0	110.0	83.6	110.0
3/6		50.4	100.8	110.0	71.7	110.0
2/0	7/0	84.0	110.0	110.0	110.0	110.0
2/6		67.2	110.0	110.0	95.5	110.0
3/0		56.0	110.0	110.0	79.6	110.0
3/6		48.0	96.0	110.0	68.2	110.0
2/0	7/6	78.4	110.0	110.0	110.0	110.0
2/6		62.7	110.0	110.0	89.2	110.0
3/0		52.3	104.5	110.0	74.3	110.0
3/6		44.8	89.6	110.0	63.7	110.0
2/0	8/0	73.5	110.0	110.0	104.5	110.0
2/6		58.8	110.0	110.0	83.6	110.0
3/0		49.0	98.0	110.0	69.7	110.0
2/0	9/0	65.3	110.0	110.0	92.9	110.0
2/6		52.3	104.5	110.0	74.3	110.0
3/0		43.6	87.1	110.0	61.9	110.0

**ANCHORS:**

TYPE 'B' - 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)  
 INTO WOOD STRUCTURES  
 1-3/8" MIN. PENETRATION INTO WOOD  
 THRU WOOD BUCKS INTO CONC. OR MASONRY  
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY  
 DIRECTLY INTO CONC. OR MASONRY  
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

**EDGE DISTANCES**

INTO CONCRETE AND MASONRY = 2" MIN.  
 INTO WOOD STRUCTURE = 1" MIN.

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

**EDGE DISTANCES**

INTO CONCRETE = 2-1/2" MIN.

CONCRETE f'c = 3000 PSI MIN.  
 C-90 HOLLOW/FILLED BLOCK f'm = 2000 PSI MIN.

**PRODUCT RENEWED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 11-0912.13  
 Expiration Date 11/09/2016  
 By: [Signature]  
 Miami Dade Product Control

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 09-0803.05  
 Expiration Date 11/09/2011  
 By: [Signature]  
 Miami Dade Product Control

**STEPS TO USE CHARTS:**

1. SELECT TYPE OF ANCHOR.
2. FOR SIZE OF UNITS DETERMINE ALLOWABLE LOAD CAPACITY. THIS LOAD CAPACITY MUST MEET OR EXCEED DESIGN WIND LOAD REQUIREMENT DETERMINE IN STEP 1 OF SHEET 6.

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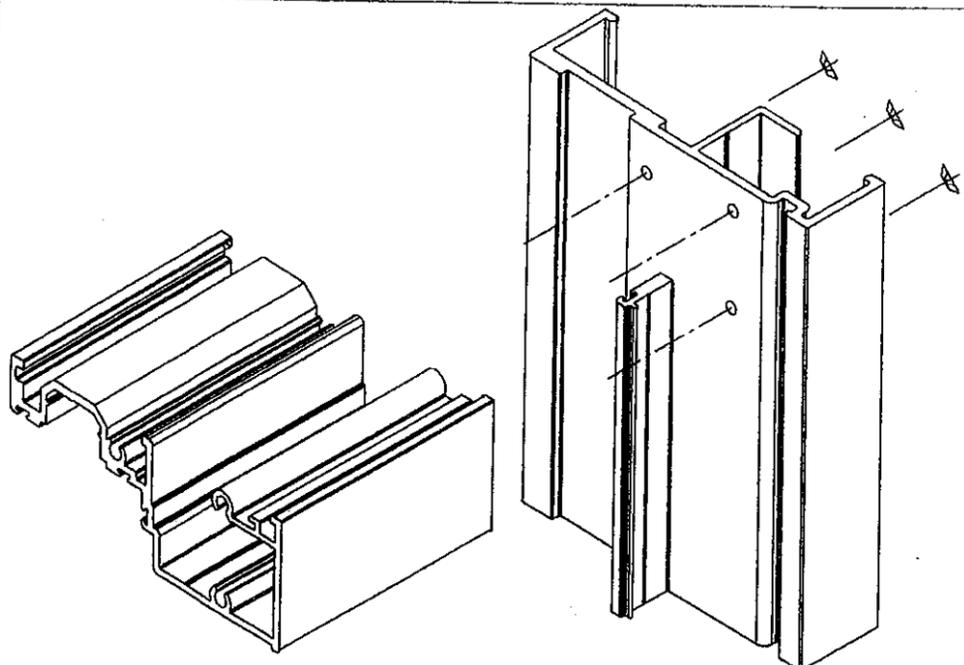
**AL-FAROOQ CORPORATION**  
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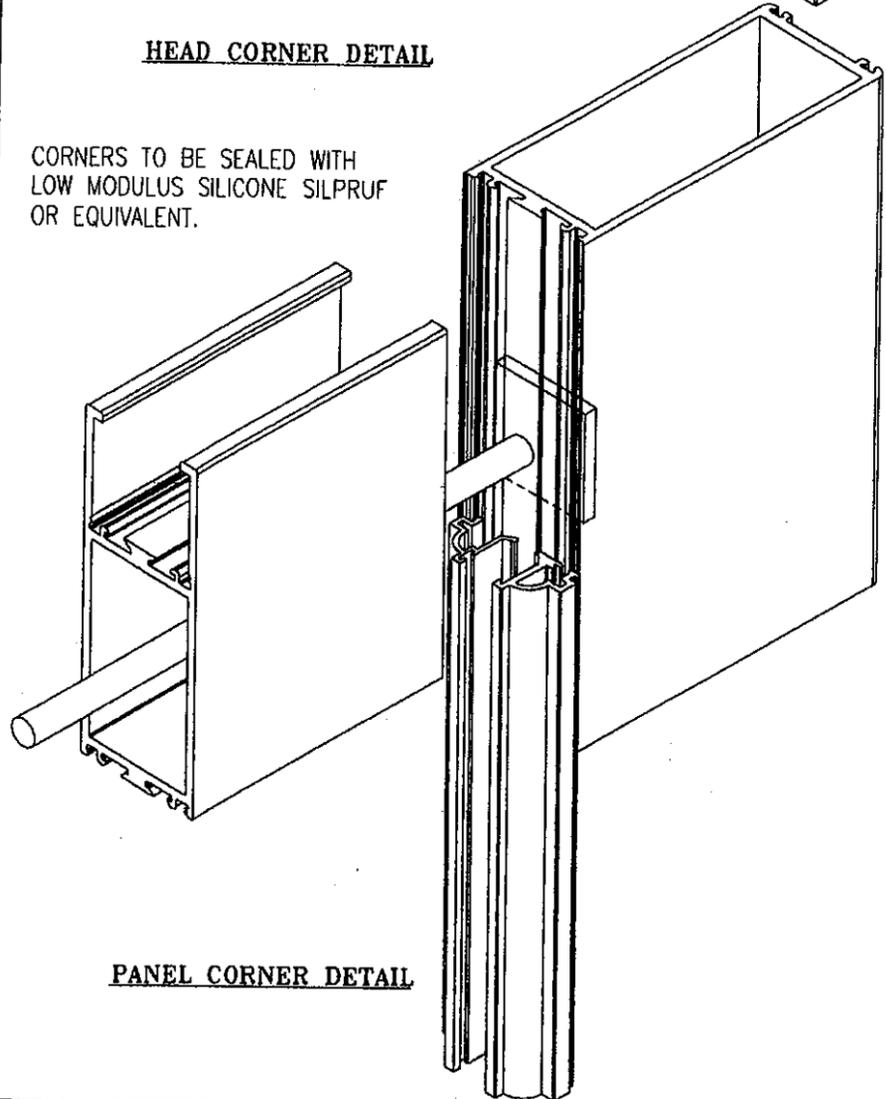
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 chk. by:

drawing no.  
**W06-73**  
 sheet 7 of 7

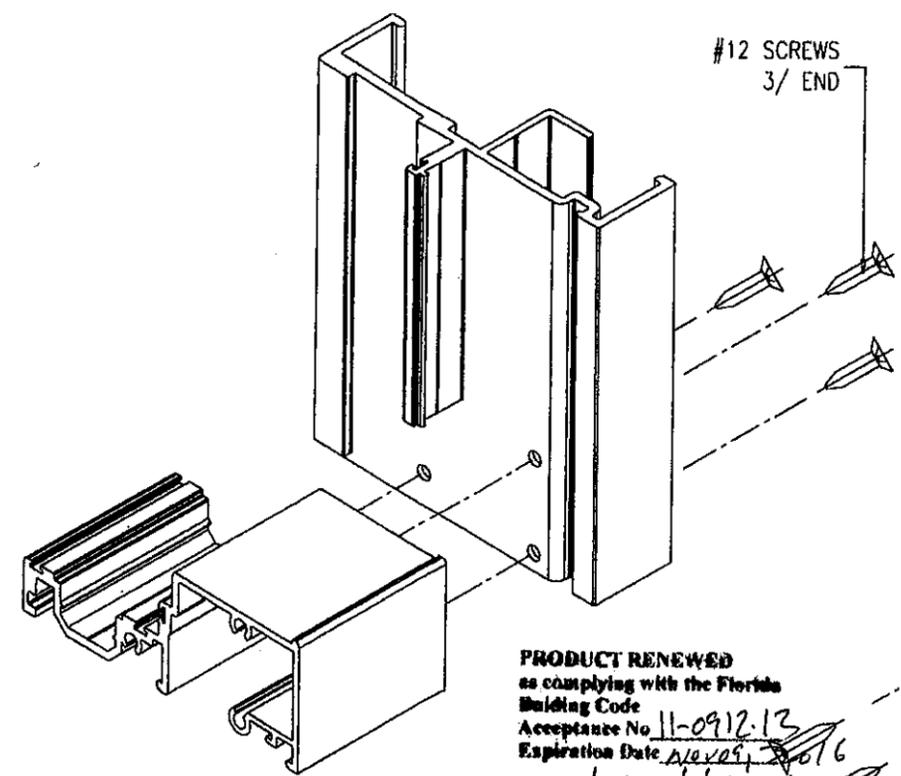


**HEAD CORNER DETAIL**

CORNERS TO BE SEALED WITH LOW MODULUS SILICONE SILPRUF OR EQUIVALENT.

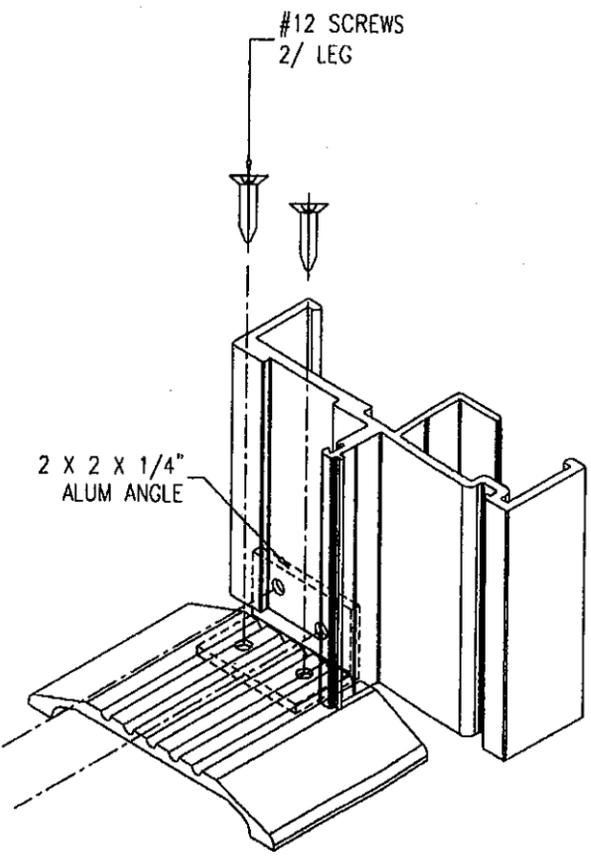


**PANEL CORNER DETAIL**



**SILL CORNER DETAIL**

**PRODUCT RENEWED**  
 as complying with the Florida Building Code  
 Acceptance No 11-0912.13  
 Expiration Date Nov 09, 2016  
 By Ishag I. Chande  
 Miami Dade Product Control Division



**SILL CORNER DETAIL**

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No 09-0803.05  
 Expiration Date Nov 09, 2011  
 By Ishag I. Chande  
 Miami Dade Product Control Division

Engr: ARSHAD VIQAR  
 CIVIL  
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 A  
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drawing no.  
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sheet 7.1 of 7