



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

www.buildingcodeonline.com

E.S. Windows, Inc.
10653 NE 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 by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 1600 Aluminum Fixed Window –S.M.I.

APPROVAL DOCUMENT: Drawing No. **W05-46**, titled "Series 1600 Aluminum Fixed Window (S.M.I.)", sheets 1 through 4 of 4, prepared by AL-Farooq Corporations, dated 09/09/05 and revised on March 06, 2006 w/ revision "B", signed and sealed by Dr. Humayoun Farooq, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state 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 consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

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



4
3/19/16

NOA No 05-1213.01
Expiration Date: March 31, 2011
Approval Date: March 31, 2006
Page 1

E.S. Windows, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W05-46**, titled "Series 1600 Aluminum Fixed Window (S.M.I.)", sheets 1 through 4 of 4, prepared by AL-Farooq Corporations, dated 09/09/05 and revised on March 06, 2006 w/ revision "**B**", signed and sealed by Dr. Humayoun Farooq, P.E. (The revision consist of addition of sill base adapter only)

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
along with marked-up drawings and installation diagram of aluminum fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-05-1449**, dated 04/28/05, signed and sealed by Ivonne Ghia, P.E.
2. Test reports on 1) Small Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of aluminum fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-05-1954**, dated 05/02/05, signed and sealed by Ivonne Ghia, P.E.

C. CALCULATIONS

1. Anchor Calculations and structural analysis, prepared by AL-Farooq Corporation, dated 11/16/05, signed and sealed by Humayoun Farooq, P.E.
2. Glazing Complies with **ASTM E1300-02**

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 05-1208.02, issued to E.I. DuPont DeNemours for "Duponut Butacite ® PVB", expiring on 12/11/10.

F. STATEMENTS

1. Statement letters of Compliance and "no financial interest", both dated 09/08/05, signed and sealed by Humayoun Farooq, P.E.
2. Statement of Lab compliance letter, part of test report.

G. OTHER

1. Test proposal dated Feb. 14, 2006 for "sill base adapter" submitted by Al-Farooq Corporation, approved by BCCO.

Ishaq I. Chanda

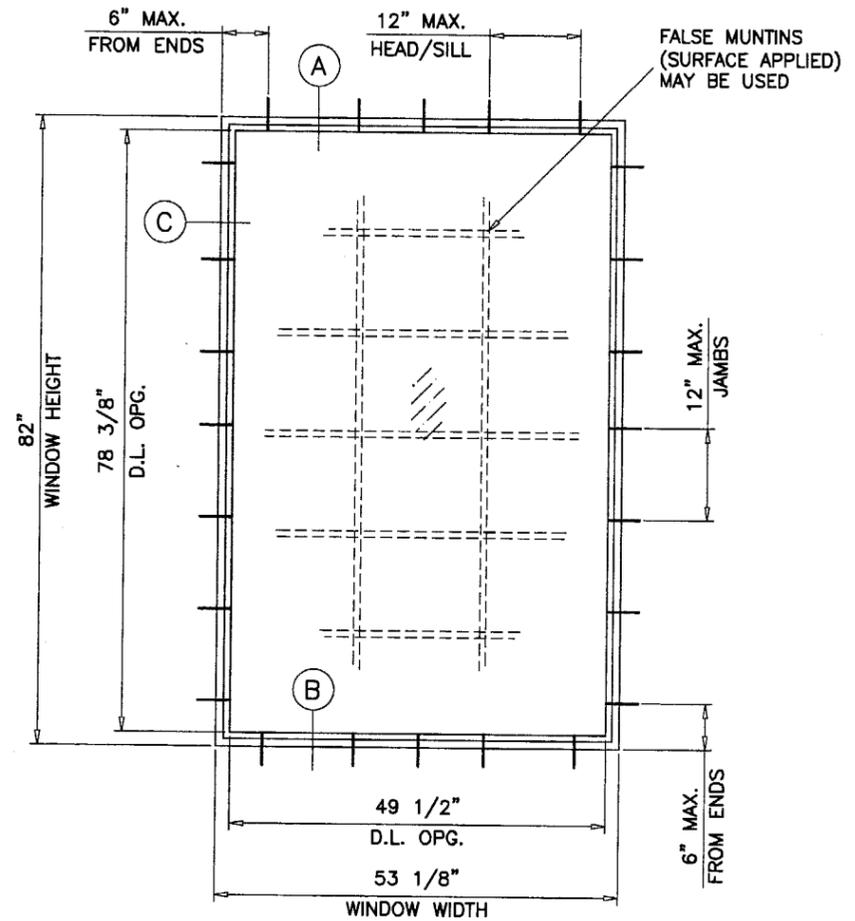
Ishaq I. Chanda, P.E.

Product Control Examiner

NOA No 05-1213.01

Expiration Date: March 31, 2011

Approval Date: March 31, 2006



TYPICAL ELEVATION
TESTED UNIT

THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT.
MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS
REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

SERIES-1600 ALUMINUM FIXED WINDOW (S.M.I.)

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER
CHARTS SHOWN ON SHEET 2.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS
OF FIXED/FIXED OR FIXED WITH OTHER WINDOW TYPES IN MODULES
OF TWO OR MORE WINDOWS USING APPROVED MULLIONS.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 EDITION INCLUDING
HIGH VELOCITY HURRICANE ZONE.

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER
LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS
EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS
ARE NOT PART OF THIS APPROVAL.

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

ALL STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED.

Approved as complying with the
Florida Building Code
Date MARCH 31, 2006
NOA# 05-1213-01
Miami Dade Product Control
Division
By Shag I. Claude

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

MAR 06 2006

afc
AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W05-46ESW

SERIES-1600 ALUMINUM FIXED WINDOW (S.M.I.)
E.S. WINDOWS
5220 N.W. 72 AVE. BAY #4
MIAMI, FL. 33166
TEL. (305) 640-9857 FAX. (305) 593-2074

revisions:		no	date	by	description
A	02.08.06			REV. PER BCCO COMMENTS	
B	03.03.06			NO CHANGE THIS SHEET	

date: 09-09-05
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

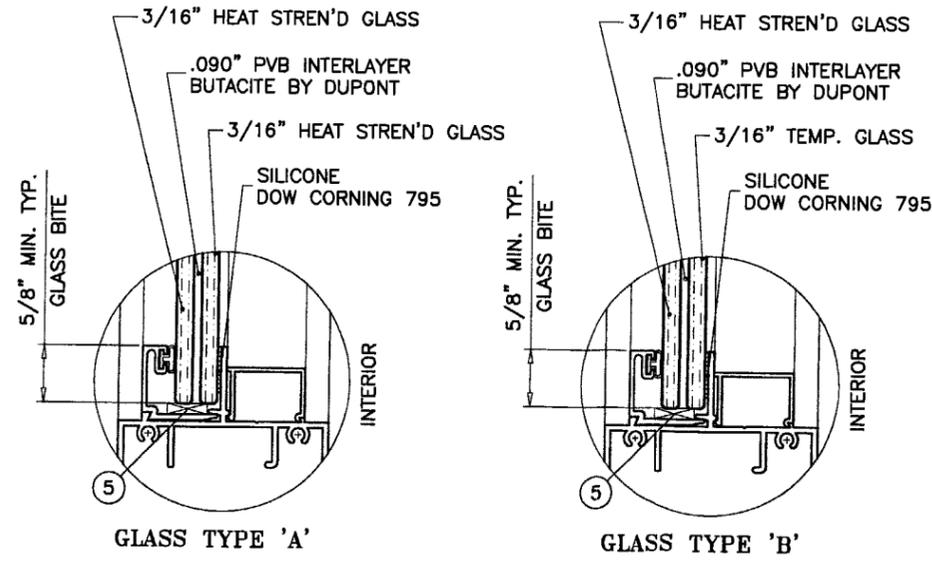
drawing no.
W05-46
sheet 1 of 4

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
18"	36"	90.0	140.0	100.0	140.0
24"		90.0	140.0	100.0	140.0
30"		90.0	140.0	100.0	140.0
36"		90.0	132.8	100.0	140.0
42"		90.0	132.8	100.0	140.0
48"		90.0	132.8	100.0	140.0
54"		90.0	127.9	100.0	140.0
60"		90.0	121.9	100.0	140.0
18"	48"	90.0	140.0	100.0	140.0
24"		90.0	140.0	100.0	140.0
30"		90.0	140.0	100.0	140.0
36"		90.0	132.8	100.0	140.0
42"		90.0	113.8	100.0	126.5
48"		90.0	99.6	100.0	110.7
54"		90.0	99.6	100.0	110.7
60"		90.0	90.0	90.0	90.0
18"	60"	90.0	140.0	100.0	140.0
24"		90.0	140.0	100.0	140.0
30"		90.0	136.5	100.0	140.0
36"		90.0	121.9	100.0	140.0
42"		90.0	112.5	100.0	126.5
48"		90.0	90.0	90.0	90.0
54"		88.5	88.5	90.0	90.0
60"		79.7	79.7	88.5	88.5
18"	72"	90.0	140.0	100.0	140.0
24"		90.0	140.0	100.0	140.0
30"		90.0	129.3	100.0	140.0
36"		90.0	113.7	100.0	133.0
42"		90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0
54"		88.5	88.5	90.0	90.0
60"		-	-	88.5	88.5
18"	84"	90.0	140.0	100.0	140.0
24"		90.0	140.0	100.0	140.0
30"		90.0	124.6	100.0	140.0
36"		90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0
48"	-	-	90.0	90.0	
18"	90"	90.0	140.0	100.0	140.0
24"		90.0	140.0	100.0	140.0
30"		90.0	122.8	100.0	140.0
36"		90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0
48"		-	-	90.0	90.0
18"	96"	90.0	140.0	100.0	140.0
24"		90.0	140.0	100.0	140.0
30"		90.0	90.0	90.0	90.0
36"		90.0	90.0	90.0	90.0
42"	-	-	90.0	90.0	

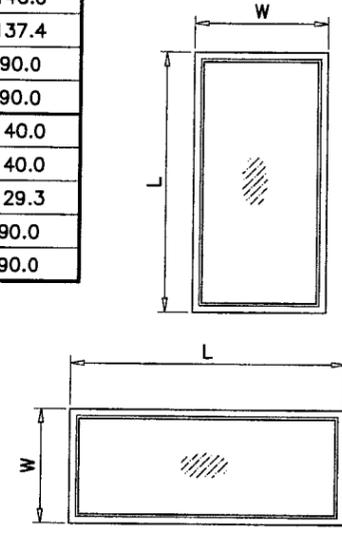
DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
18"	108"	90.0	140.0	100.0	140.0
24"		90.0	140.0	100.0	140.0
30"		90.0	90.0	90.0	90.0
36"		90.0	90.0	90.0	90.0
18"	120"	90.0	140.0	100.0	140.0
24"		90.0	90.0	90.0	90.0
30"		90.0	90.0	90.0	90.0
36"		-	-	90.0	90.0

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	26"	90.0	140.0	100.0	140.0
26-1/2"		90.0	140.0	100.0	140.0
37"		90.0	140.0	100.0	140.0
48"		90.0	140.0	100.0	140.0
53-1/8"		90.0	140.0	100.0	140.0
19-1/8"	38-3/8"	90.0	140.0	100.0	140.0
26-1/2"		90.0	140.0	100.0	140.0
37"		90.0	129.2	100.0	140.0
48"		90.0	124.6	100.0	138.4
53-1/8"	90.0	124.6	100.0	138.4	
19-1/8"	50-5/8"	90.0	140.0	100.0	140.0
26-1/2"		90.0	140.0	100.0	140.0
37"		90.0	129.2	100.0	140.0
48"		90.0	99.6	100.0	110.7
53-1/8"	90.0	94.4	100.0	104.9	
19-1/8"	58"	90.0	140.0	100.0	140.0
26-1/2"		90.0	140.0	100.0	140.0
37"		90.0	121.9	100.0	140.0
48"		90.0	90.0	90.0	90.0
53-1/8"	90.0	90.0	90.0	90.0	
19-1/8"	63"	90.0	140.0	100.0	140.0
26-1/2"		90.0	140.0	100.0	140.0
37"		90.0	117.5	100.0	137.4
48"		90.0	90.0	90.0	90.0
53-1/8"	90.0	90.0	90.0	90.0	
19-1/8"	74-1/4"	90.0	140.0	100.0	140.0
26-1/2"		90.0	140.0	100.0	140.0
37"		90.0	110.5	100.0	129.3
48"		90.0	90.0	90.0	90.0
53-1/8"	90.0	90.0	90.0	90.0	

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-02 (3 SEC. GUSTS)



GLAZING OPTIONS



NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED
VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.

Engr: DR. HUMAYOON FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

MAR 06 2006

Approved as complying with the
Florida Building Code
Date MAR 31, 2006
NOAH# 05-1213-01
Miami Dade Product Control
Division
By Shaq I. Claude

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

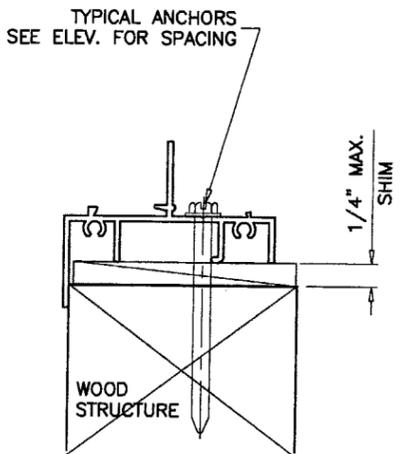
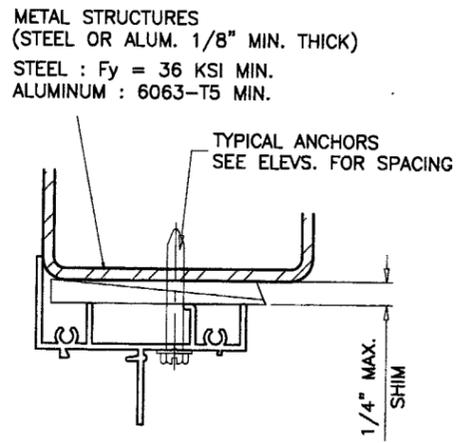
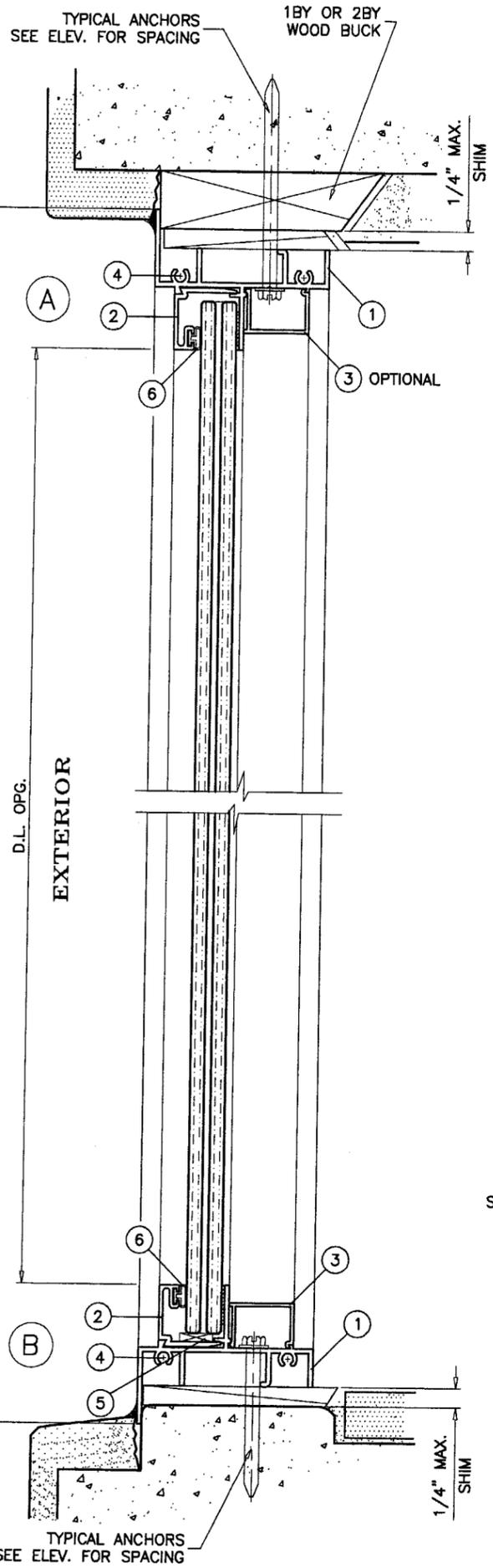
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no	date	description
A	02.08.06	NO CHANGE THIS SHEET
B	03.03.06	NO CHANGE THIS SHEET

date: 09-09-05
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W05-46
sheet 2 of 4

COMP-ANL\W05-46ESW



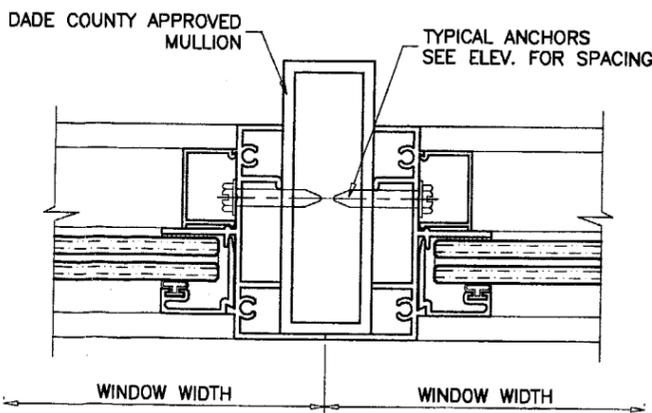
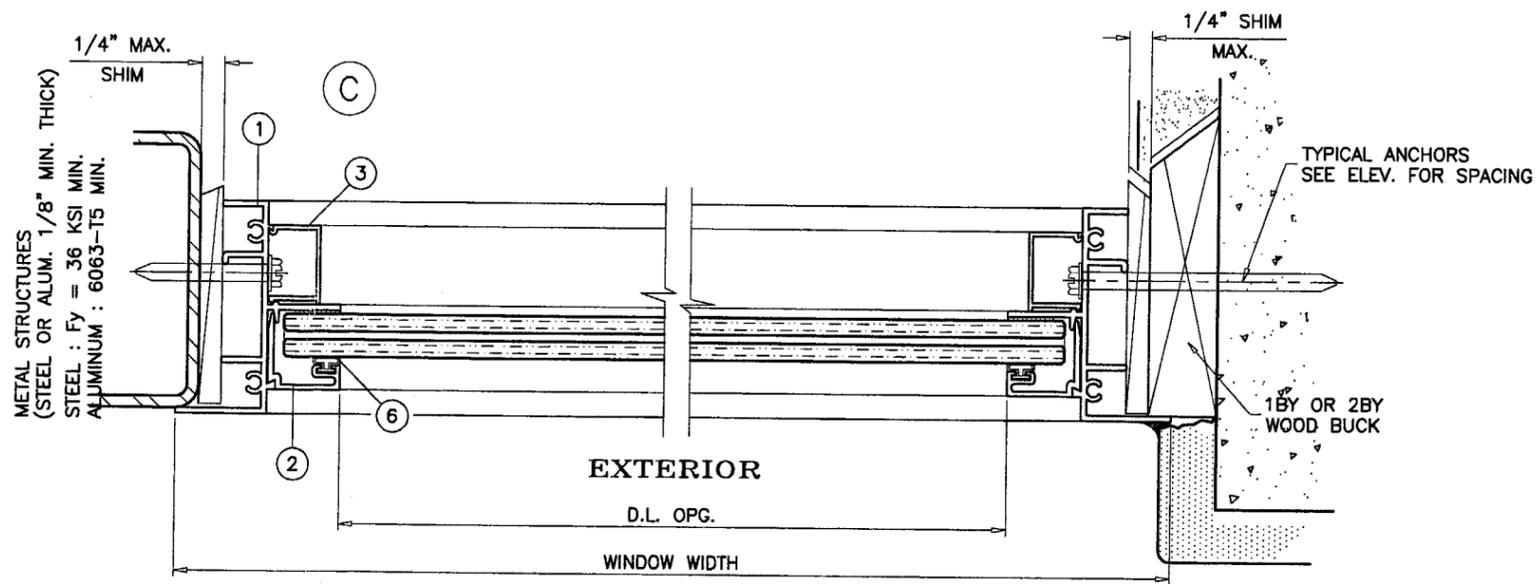
WOOD BUCKS NOT BY E.S. WINDOWS, MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" TAPCONS
 INTO WOOD STRUCTURES
 2" MIN. PENETRATION INTO WOOD
 THRU 1BY OR 2BY 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

#14 SMS OR SELF DRILLING SCREWS
 INTO METAL STRUCTURES (1/8" MIN. THICKNESS)
 (1/4" MAX. SHIM SPACE)

SEALANT:
 ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUM COLOR SILICONE.



Engr: DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16357
 C.A.N. 3538

Approved as complying with the Florida Building Code
 Date MAR 31, 2006
 NOAH # 05-1213.01
 Miami Dade Product Control
 Division
 By Shag Chanda

MAR 06 2006

afc

AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\W05-46ESW

SERIES-1600 ALUMINUM FIXED WINDOW (S.M.I.)

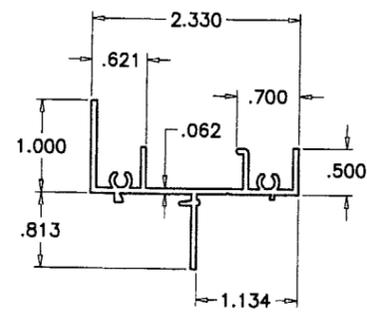
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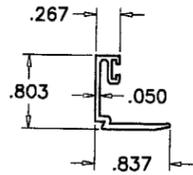
revisions:

date: 09-09-05
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

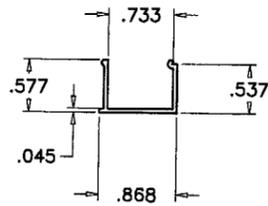
drawing no. **W05-46**
 sheet 3 of 4



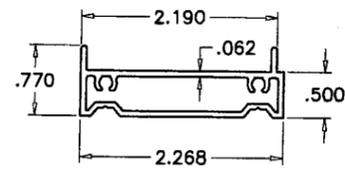
1 FRAME



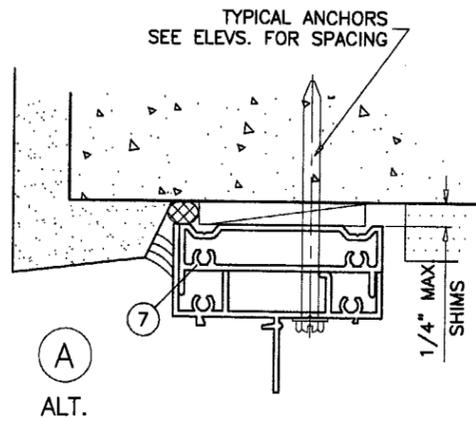
2 GLAZING STOP



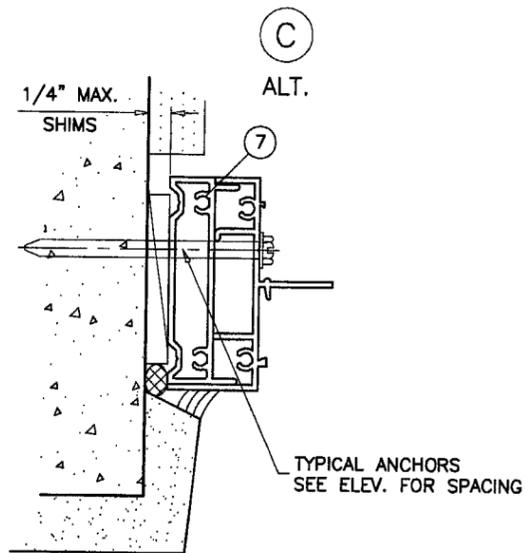
3 FRAME COVER (OPTIONAL)



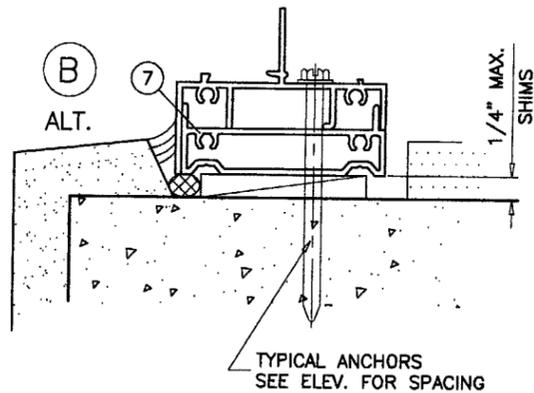
4 FLUSH FRAME ADAPTER



A ALT.

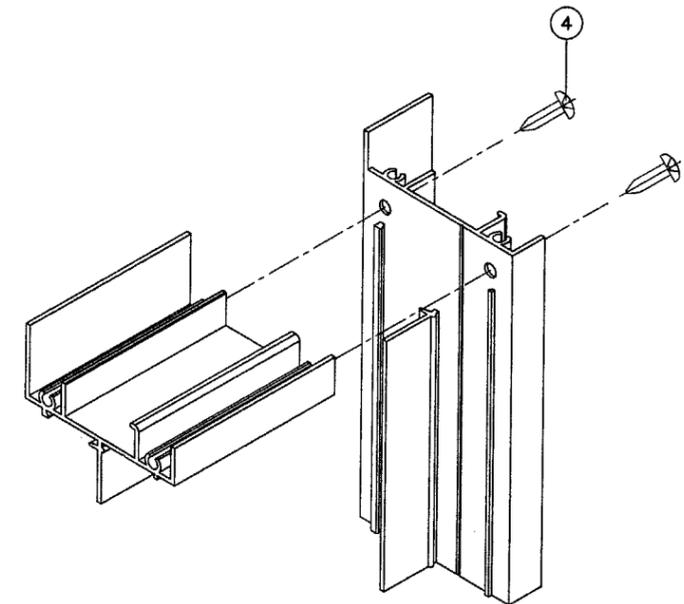


C ALT.



B ALT.

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES1501	4	WINDOW FRAME	6063-T5	-
2	ES1106	4	GLAZING STOP	6063-T5	-
3	ES1502	4	FRAME COVER (OPTIONAL)	6063-T5	-
4	#8 X 1"	2/ CORNER	ASSEMBLY SCREWS	CRS	PH SMS
5	-	2/ LITE	SETTING BLOCK	NEOPRENE	7/16" X 3/16" X 3-1/2" LONG
6	ES1104	AS REQD.	GLAZING GASKET	NEOPRENE	-
7	ES1505	-	FLUSH FRAME ADAPTER	6063-T5	OPTIONAL



TYPICAL CORNER CONSTRUCTION

Approved as complying with the Florida Building Code
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 Miami Dade Product Control
 Division
 By Shay I. Lounds

Engr: DR. HUMAYOUN FARCOQ
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B	03.03.06		FRAME ADAPTER ADDED

date:	09-09-05
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dr. by:	HAMID
chk. by:	

drawing no.	W05-46
sheet 4 of 4	