

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

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Construction Glass Industries Corporation
7840 N.W. 62nd Street
Miami, FL 33166

Your application for Notice of Acceptance (NOA) of:

Series 238 Aluminum Fixed Window - Non-Impact & Impact Resistant

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0918.01

EXPIRES: 09/30/2006

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

APPROVED: 10/25/2001

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

Construction Glass Industries Corp.

ACCEPTANCE No.: 01-0918.01

APPROVED : OCT 25 2001

EXPIRES : September 30, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

- 1.1** This revises and renews the Notice of Acceptance No. 00-0310.01, which was issued on August 24, 2000. It approves an aluminum fixed window, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

- 2.1** The **Series 238 Aluminum Fixed Window – Non-Impact and Impact Resistant** and its components shall be constructed in strict compliance with the following documents: Drawing No **W99-10**, titled "Series-238 Aluminum Fixed Window" Sheets 1, 2, 3, 3A, 4, 5 and 6 of 6 dated 02/19/99, with revision C dated 10/04/01, signed and sealed by 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. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

- 3.1** This approval applies to single unit applications only, as shown in approved drawings.
3.2 For Design Pressure Rating vs. Window Size, see Comparative Analysis Tables for non-impact and impact resistant windows in separate sheets of approved drawings.

4. INSTALLATION

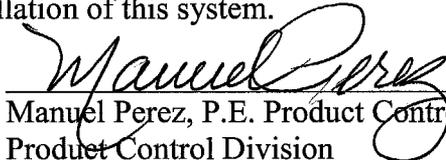
- 4.1** The aluminum fixed window and its components shall be installed in strict compliance with the approved drawings.
4.2 Hurricane protection system (shutters): to determine whether the installation requires a hurricane protection system or not, see corresponding table in approved drawing.

5. LABELING

- 5.1** 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".

6. BUILDING PERMIT REQUIREMENTS

- 6.1** Application for building permit shall be accompanied by copies of the following:
6.1.1 This Notice of Acceptance
6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.


Manuel Perez, P.E. Product Control Examiner
Product Control Division

Construction Glass Industries Corp.

ACCEPTANCE No.: 01-0918.01

APPROVED : OCT 25 2006

EXPIRES : September 30, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
 - b) The product is no longer the same product (identical) as the one originally approved;
 - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
 - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a) Unsatisfactory performance of this product or process.
 - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE


Manuel Perez, P.E. Product Control Examiner
Product Control Division

Construction Glass Industries Corp.

ACCEPTANCE No.: 01-0918.01

APPROVED : OCT 25 2001

EXPIRES : September 30, 2006

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA.)

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **W99-10**, titled "Series-238 Aluminum Fixed Window" Sheets 1, 2, 3, 3A, 4, 5 and 6 of 6 dated 02/19/99, with revision C dated 10/04/01, signed and sealed by Humayoun Farooq, P.E.

B. TESTS

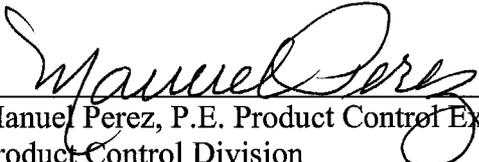
1. Test report on: 1) Large Missile Impact Test, per PA 201-94.
2) Cyclic Wind Pressure Loading, per PA 203-94.
along with installation diagram of Series 238 alum. Fixed Window glazed with 7/16' **Saflex PVB**, prepared by Hurricane Testing Lab reports No. **HTL-0080-0203-99**, **HTL-0080-0606-99**, and **HTL-0080-1020-99** tested on 02/05-15/99, 06/07/99, and 10/28/99 respectively, signed and sealed by Vinu J. Abraham, P.E.
Tests under previous approvals
2. Test report on: 1) Uniform Static Air Pressure Test, Loading per ASTM E330.
along with installation diagram of a Series CGI 238 alum. fixed windows of following sizes: 54" wide x 120" high; glazed with **Saflex** laminated glass, prepared by Hurricane Test Laboratory, Inc. report No. **HTL-0080-1107-98** dated 11/10/98, signed and sealed by Timothy S. Marshall, P.E.

C. CALCULATIONS

1. Comparative Analysis and anchor calcs. for Series 328 fixed picture window, prepared by Al-Farooq Corp., dated 02/20/99, signed and sealed by Humayoun Farooq, P.E.
2. Revised Analysis and anchor calculations for Series 328 fixed picture window, prepared by Al-Farooq Corp., dated 02/04/00, signed and sealed by Humayoun Farooq, P.E.
3. Revised Analysis and anchor calculations for Series 328 fixed picture window, prepared by Al-Farooq Corp., dated 06/26/01, signed and sealed by Humayoun Farooq, P.E.
4. Revised Analysis and anchor calculations for Series 328 fixed picture window, prepared by Al-Farooq Corp., dated 10/04/01, signed and sealed by Humayoun Farooq, P.E.

D. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **96-0904.14** issued to E.I. DuPont DeNemours for "Sentry Glass Series 457 Laminate Glass" dated 04/24/97, expiring on 04/24/2000.
2. Notice of Acceptance No. **97-1224.07** issued to Solutia, Inc. for "Polyvinyl Butyral Interlayer Saflex" dated 06/25/98, expiring on 01/09/2000.


Manuel Perez, P.E. Product Control Examiner
Product Control Division

Construction Glass Industries Corp.

ACCEPTANCE No.: 01-0918.01

APPROVED : OCT 25 2001

EXPIRES : September 30, 2006

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

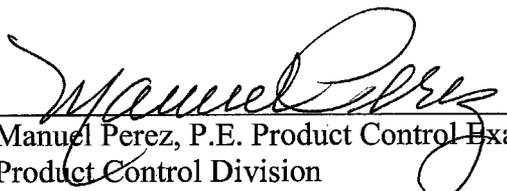
(For File ONLY. Not part of NOA.)

E. STATEMENTS

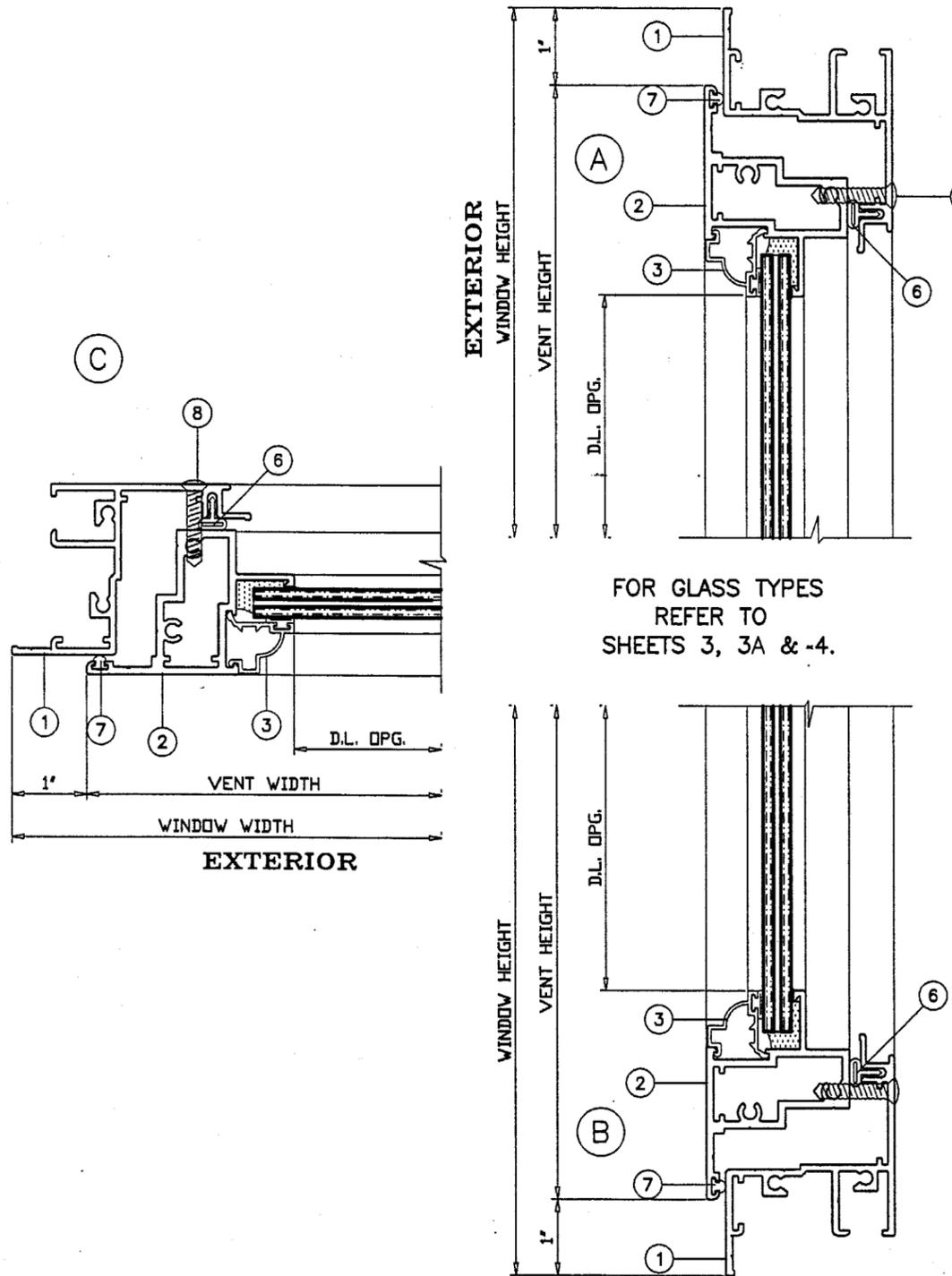
1. No Financial Interest Statement letter issued from Al-Farooq Co., dated on Feb. 14, 2000, signed and sealed by Dr. Humayoun Farooq, P.E.
2. Conformance Statement Letter issued from Al-Farooq Co., dated on Feb. 14, 2000, signed and sealed by Dr. Humayoun Farooq, P.E.
3. Letter stating that engineer is still in practice from Al-Farooq Co., dated on May 31, 2001, signed and sealed by Dr. Humayoun Farooq, P.E.

F. OTHER

1. Notice of Acceptance No. **00-0310.01**, issued to Construction Glass Ind. Corp. for their Series 238 Aluminum Fixed Window, approved on 08/24/00 and expiring on 09/30/01.

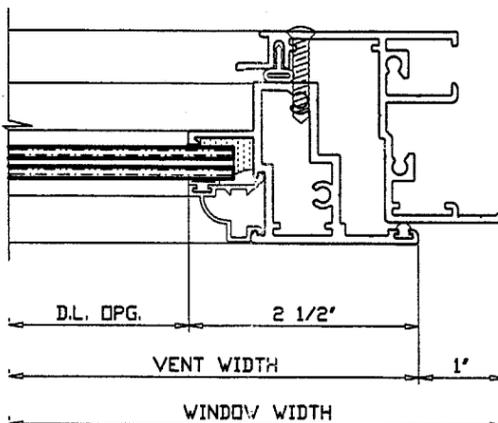

Manuel Perez, P.E. Product Control Examiner
Product Control Division

GENERAL WINDOW SECTIONS

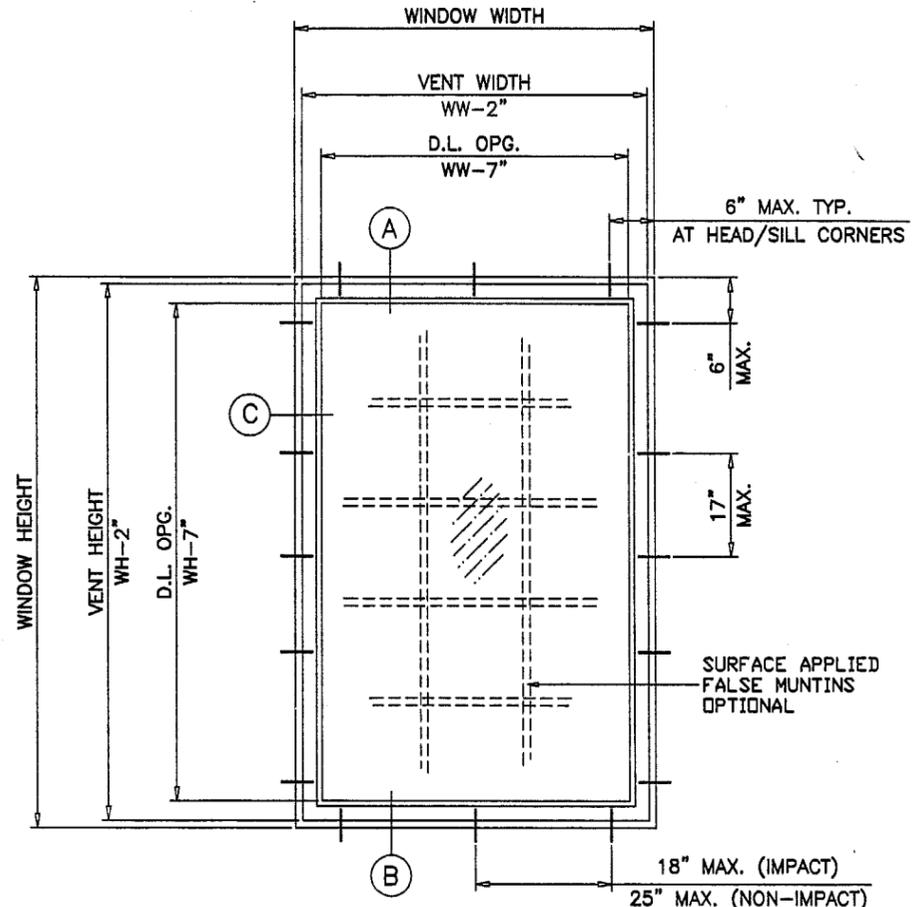


AT EACH END AND
18" O.C. ON SHORTER SIDES
20" O.C. ON LONGER SIDES

FOR GLASS TYPES
REFER TO
SHEETS 3, 3A & -4.



FOR MULLION/MULTIPLE UNITS, REFER TO
SEPARATE CGI MULLION N.O.A.



TYPICAL ELEVATION

- MAX. ANCHOR SPACING TO BE AS FOLLOWS**
- IMPACT WINDOWS**
- 17" O.C. ON LONGER SIDES
 - 18" O.C. ON SHORTER SIDES
- NON-IMPACT WINDOWS**
- 17" O.C. ON LONGER SIDES
 - 25" O.C. ON SHORTER SIDES

NOTES:

- THIS STRUCTURE IS DESIGNED AS PER THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR DADE COUNTY. ALSO FOR WIND LOADS AS PER ASCE 7 USING CORRESPONDING LOADS.
- WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

INSTRUCTIONS FOR USING THESE CHARTS:

- STEP 1** DETERMINE THE REQUIRED DESIGN PRESSURES FOR A GIVEN WINDOW.
- STEP 2** OBTAIN CAPACITY OF WINDOW/GLASS TYPE FROM APPROPRIATE CHARTS.
A) SHEETS 3 & 3A FOR IMPACT RESISTANT.
B) SHEET 4 FOR NON-IMPACT RESISTANT.
- STEP 3** SELECT INSTALLATION (ANCHOR) TYPE FROM DETAILS ON SHEET 5 AND CHART ON SHEET 6.

THE VALUES OBTAINED FOR WINDOW AND ANCHORS MUST MEET OR EXCEED THE REQUIRED PRESSURES.

Engr. DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557

OCT 4 2001

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE **OCT 25 2001**
BY *Mamuel Perez*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. **01-0918-01**

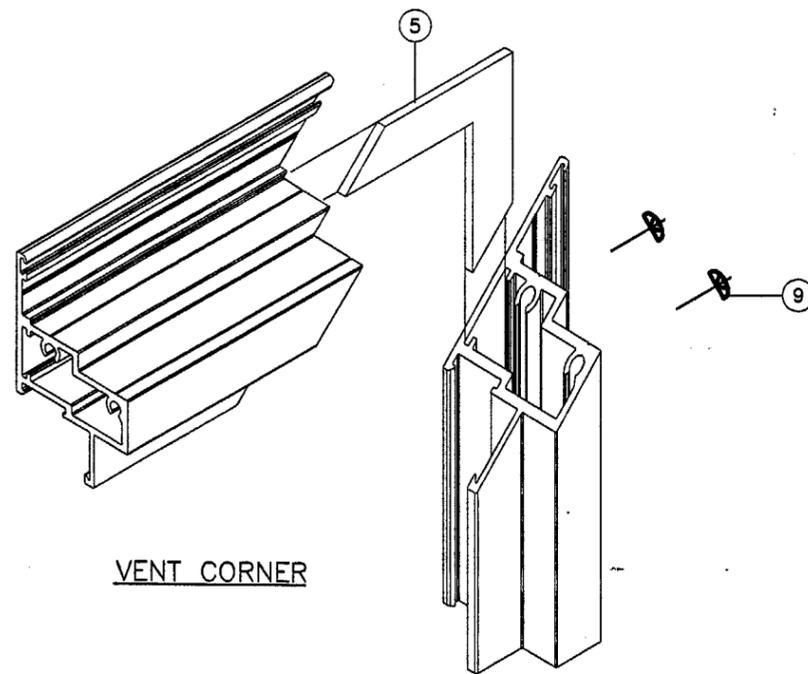
AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL W99-10CGI

SERIES-238 ALUMINUM FIXED WINDOW
CONSTRUCTION GLASS IND. CORP.
7840 N.W. 62 nd STREET
MIAMI, FL. 33166
TEL. (305) 593-6590 FAX. (305) 593-6592

no	date	description
A	02.14.00	NEW SIZES/GLASS ADD. SHT. 3A/6.
B	08.09.01	CHARTS REV. PER ASTM E-1300
C	10.04.01	3A, 4 & 6 REV./BCCO COMMENTS

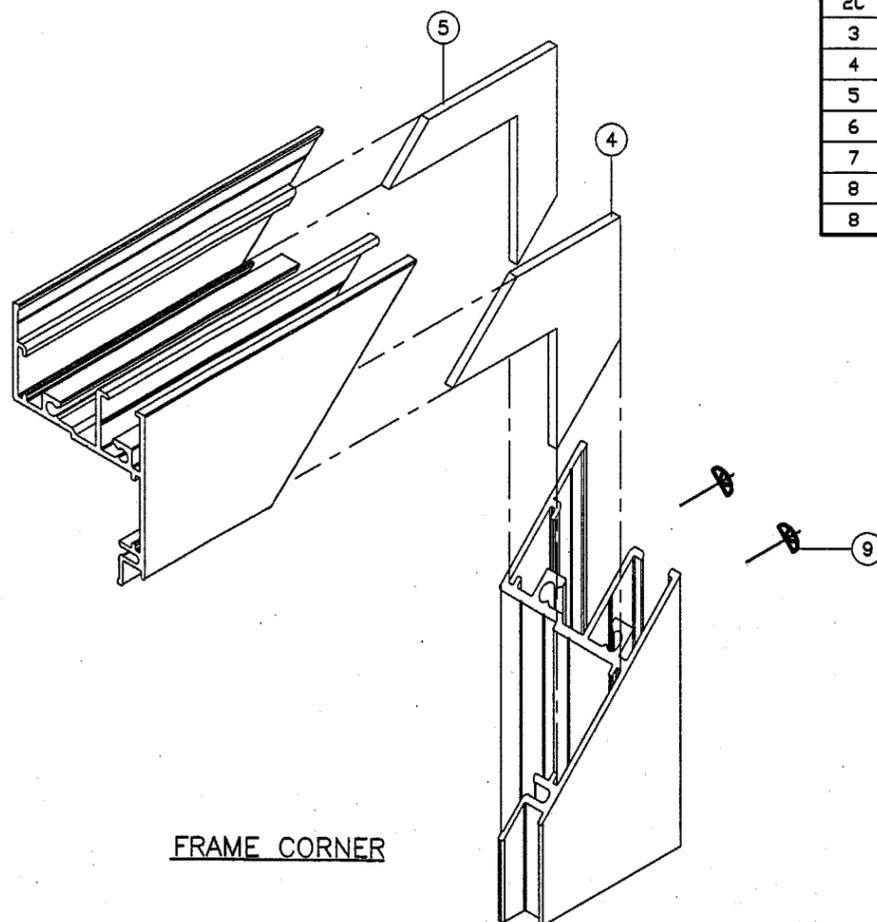
date: 02-19-99
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W99-10
sheet 1 of 6

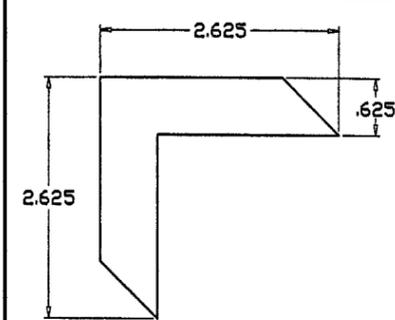


VENT CORNER

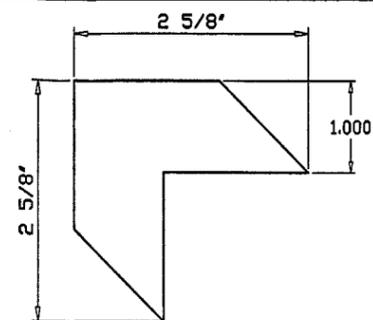
ALL FRAME AND VENT CORNERS TO BE SEALED WITH GE SILPRUF OR EQUIV.



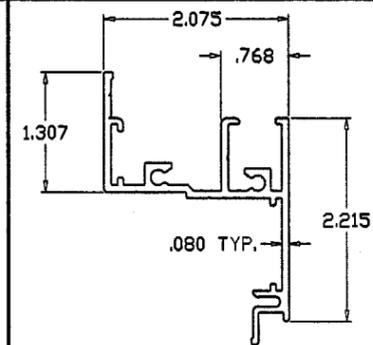
FRAME CORNER



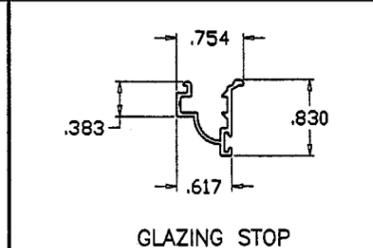
CORNER KEY
.060 THICK ST. STEEL



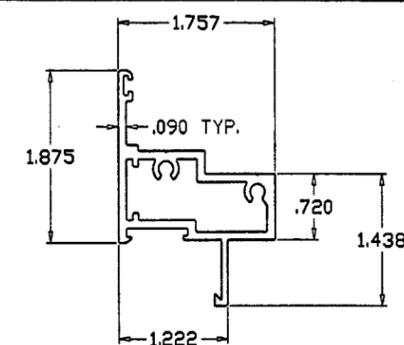
CORNER KEY
.062 THICK ALUMINUM



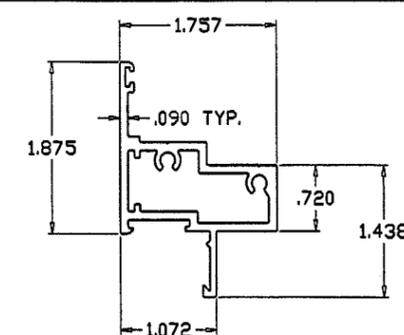
FRAME



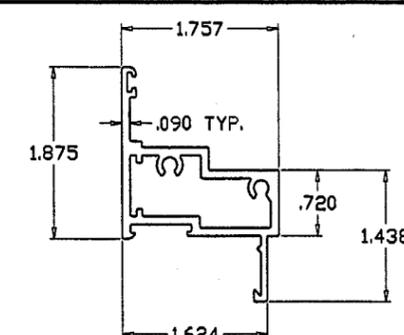
GLAZING STOP



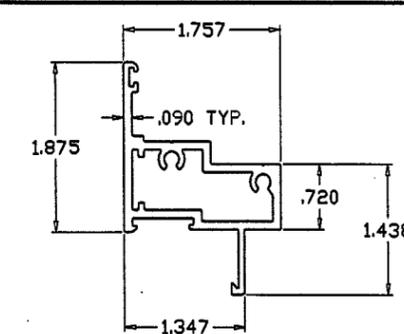
VENT (5/16" LAM. GLASS)



VENT (3/16" & 1/4" GLASS)



VENT (3/4" INSUL. GLASS)



VENT (7/16" LAM. GLASS)

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	CGI-373	4	FRAME	6063-T6	INDALEX OR EQUIV.
2	CGI-378	4	VENT (5/16" LAM. GLASS)	6063-T6	INDALEX OR EQUIV.
2A	CGI-374	4	VENT (3/16" & 1/4" GLASS)	6063-T6	INDALEX OR EQUIV.
2B	-	4	VENT (3/4" INSUL. GLASS)	6063-T6	INDALEX OR EQUIV.
2C	CGI-385	4	VENT (7/16" LAM. GLASS)	6063-T6	INDALEX OR EQUIV.
3	CGI-375	4	GLAZING BEAD	6063-T5	INDALEX OR EQUIV.
4	-	4	.060 THICK CORNER KEY	ALUMINUM	-
5	-	8	.060 THICK CORNER KEY	ST. STEEL	-
6	AP-425	AS REQD.	FRAME WEATHERSTRIPPING	-	SCHLEGEL APTUS
7	Q200 X190	AS REQD.	VENT WEATHERSTRIPPING	-	SCHLEGEL Q-LDN
8	-	AS REQD.	VENT SCREWS @ 20" O.C. LONGER SIDES, 18" O.C. SHORTER SIDES	-	#10 X 1" SS SMS
8	-	2/ CORNER	FRAME AND VENT ASSEMBLY SCREWS	-	#10 X 1-1/4" SS SMS

Engr: DR. HUMAYOON FAROOQ
STRUCTURES
FLA. PE # 16557

OCT 4 2001

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE OCT 25 2001
BY Manuel
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0919-01

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\W99-10CGI

SERIES-238 ALUMINUM FIXED WINDOW
CONSTRUCTION GLASS IND. CORP.
7840 N.W. 62 nd STREET
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TEL (305) 593-6590 FAX (305) 593-6592

no	date	by	description

date: 02-19-99
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W99-10

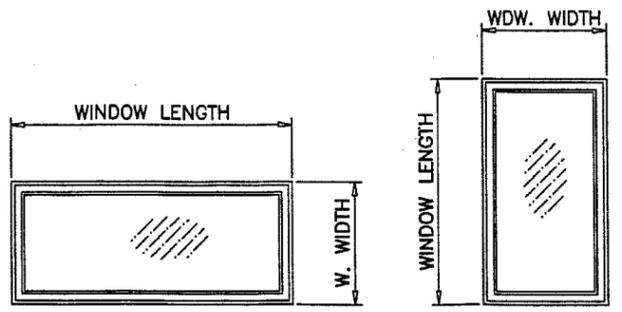
sheet 2 of 6

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS
NO SHUTTERS REQUIRED
REFER TO SHEETS 5 AND 6 FOR INSTALLATION DETAILS

WINDOW DIMS.		GLASS TYPE '2'		GLASS TYPE '3'		GLASS TYPE '6'	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24"	36"	110.0	145.5	110.0	157.5	110.0	195.8
30"		104.3	104.3	110.0	144.0	110.0	156.6
36"		82.5	82.5	110.0	120.0	110.0	130.5
42"		67.7	67.7	110.0	120.0	110.0	120.0
48"		58.5	58.5	110.0	120.0	110.0	120.0
54"		52.0	52.0	110.0	115.1	110.0	120.0
60"	46.6	46.6	102.7	102.7	110.0	120.0	
24"	42"	110.0	127.2	110.0	157.5	110.0	193.6
30"		86.7	86.7	110.0	144.0	110.0	156.6
36"		67.7	67.7	110.0	120.0	110.0	120.0
42"		68.7	68.7	102.9	102.9	96.9	111.9
48"		60.6	60.6	102.9	102.9	96.9	111.9
54"		54.3	54.3	92.6	92.6	96.9	111.9
60"	48.1	48.1	81.7	81.7	90.0	90.0	
24"	48"	110.0	111.2	110.0	157.5	110.0	184.4
30"		74.5	74.5	110.0	120.0	110.0	120.0
36"		58.5	58.5	110.0	120.0	110.0	120.0
42"		60.6	60.6	102.9	102.9	96.9	111.9
48"		54.2	54.2	90.0	90.0	84.8	97.9
54"		48.9	48.9	78.6	78.6	90.0	90.0
60"	44.1	44.1	69.6	69.6	90.0	90.0	
24"	54"	103.8	103.8	110.0	154.3	110.0	177.8
30"		66.0	66.0	110.0	120.0	110.0	120.0
36"		52.0	52.0	110.0	115.1	110.0	120.0
42"		54.3	54.3	92.6	92.6	96.9	111.9
48"		48.9	48.9	78.6	78.6	90.0	90.0
54"		44.9	44.9	68.4	68.4	80.0	80.0
60"	40.7	40.7	60.4	60.4	80.0	80.0	
24"	60"	100.8	100.8	110.0	120.0	110.0	120.0
30"		59.8	59.8	110.0	120.0	110.0	120.0
36"		46.6	46.6	102.7	102.7	110.0	120.0
42"		48.1	48.1	81.7	81.7	90.0	90.0
48"		44.1	44.1	69.6	69.6	90.0	90.0
54"		40.7	40.7	60.4	60.4	80.0	80.0
60"	-	-	-	-	70.0	70.0	
24"	66"	93.0	93.0	110.0	120.0	110.0	120.0
30"		57.8	57.8	110.0	120.0	110.0	120.0
36"		41.4	41.4	90.0	90.0	90.0	90.0
42"		43.5	43.5	74.4	74.4	90.0	90.0
48"		40.3	40.3	62.4	62.4	90.0	90.0
54"		-	-	-	-	70.0	70.0
60"	-	-	-	-	70.0	70.0	
24"	72"	91.9	91.9	110.0	120.0	110.0	120.0
30"		53.5	53.5	110.0	120.0	110.0	120.0
36"		38.4	38.4	89.2	89.2	90.0	90.0
42"		39.2	39.2	68.2	68.2	90.0	90.0
48"		35.5	35.5	56.8	56.8	90.0	90.0
60"		-	-	-	-	70.0	70.0
63"	-	-	-	-	68.6	68.6	
66"	-	-	-	-	65.5	65.5	
87"	-	-	-	-	50.0	50.0	

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS
NO SHUTTERS REQUIRED
REFER TO SHEETS 5 AND 6 FOR INSTALLATION DETAILS

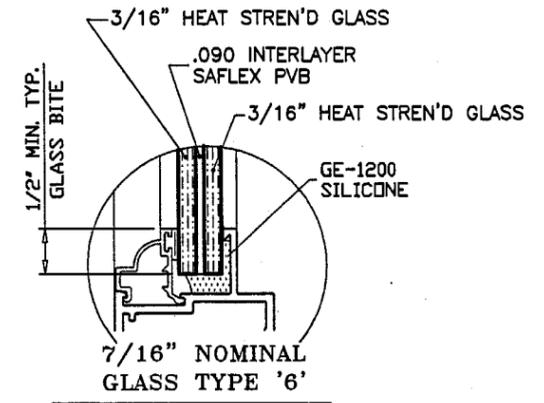
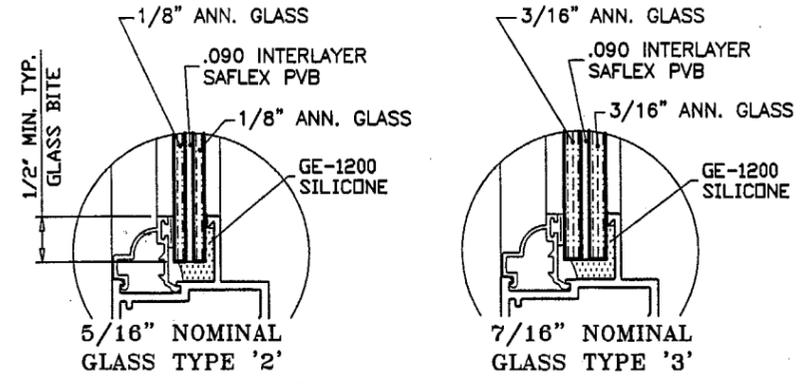
WINDOW DIMS.		GLASS TYPE '2'		GLASS TYPE '3'		GLASS TYPE '6'		
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	
24"	78"	91.3	91.3	110.0	120.0	110.0	120.0	
30"		51.7	51.7	90.0	90.0	90.0	90.0	
36"		35.5	35.5	82.7	82.7	90.0	90.0	
42"		34.8	34.8	64.6	64.6	90.0	90.0	
60"		-	-	-	-	70.0	70.0	
81"		-	-	-	-	50.0	50.0	
24"	84"	85.6	85.6	110.0	120.0	110.0	120.0	
30"		49.3	49.3	90.0	90.0	90.0	90.0	
36"		33.4	33.4	81.0	81.0	90.0	90.0	
57"		-	-	-	-	70.0	70.0	
75"		-	-	-	-	50.0	50.0	
24"		96"	78.1	78.1	110.0	120.0	110.0	120.0
30"	46.9		46.9	90.0	90.0	90.0	90.0	
36"	31.7		31.7	76.8	76.8	90.0	90.0	
51"	-		-	-	-	70.0	70.0	
66"	-		-	-	-	50.0	50.0	
24"	108"		59.0	59.0	90.0	90.0	90.0	90.0
30"		44.9	44.9	90.0	90.0	90.0	90.0	
36"		-	-	-	-	70.0	70.0	
45"		-	-	-	-	70.0	70.0	
60"		-	-	-	-	50.0	50.0	
24"		120"	45.6	45.6	90.0	90.0	90.0	90.0
39"	-		-	-	-	70.0	70.0	
54"	-		-	-	-	50.0	50.0	
36"	132"		-	-	-	-	70.0	70.0
48"			-	-	-	-	50.0	50.0
33"	144"		-	-	-	-	70.0	70.0
45"		-	-	-	-	50.0	50.0	
30"	156"	-	-	-	-	70.0	70.0	
39"		-	-	-	-	50.0	50.0	



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

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS
NO SHUTTERS REQUIRED
REFER TO SHEETS 5 AND 6 FOR INSTALLATION DETAILS

WINDOW DIMS.		GLASS TYPE '2'		GLASS TYPE '3'		GLASS TYPE '6'	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
19-1/8"	26"	110.0	157.5	110.0	157.5	110.0	210.0
26-1/2"		110.0	157.5	110.0	157.5	110.0	180.7
37"		110.0	123.0	110.0	157.5	110.0	180.7
53-1/8"		86.4	86.4	110.0	120.0	110.0	120.0
19-1/8"	38-3/8"	110.0	157.5	110.0	157.5	110.0	210.0
26-1/2"		110.0	114.2	110.0	157.5	110.0	177.3
37"		73.5	73.5	110.0	116.8	110.0	120.0
53-1/8"	50-5/8"	49.8	49.8	106.0	106.0	106.1	120.0
19-1/8"		110.0	157.5	110.0	157.5	110.0	210.0
26-1/2"		88.1	88.1	110.0	120.0	110.0	120.0
37"	63"	54.2	54.2	110.0	116.8	110.0	120.0
53-1/8"		47.3	47.3	75.1	75.1	85.3	85.3
19-1/8"		110.0	157.5	110.0	157.5	110.0	204.6
26-1/2"	74-1/4"	74.8	74.8	110.0	120.0	110.0	120.0
37"		42.8	42.8	93.1	93.1	110.0	120.0
53-1/8"		39.4	39.4	58.3	58.3	81.3	81.3
19-1/8"	74-1/4"	110.0	120.0	110.0	120.0	110.0	120.0
26-1/2"		69.7	69.7	110.0	120.0	110.0	120.0
37"		35.9	35.9	82.9	82.9	90.0	90.0
53-1/8"	-	-	-	-	70.0	70.0	



Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557

OCT 4 2001

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE **OCT 25 2001**
BY *Manuel J...*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. **01-091801**

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
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COMP-ANL\W99-10CGI

SERIES-238 ALUMINUM FIXED WINDOW
CONSTRUCTION GLASS IND. CORP.
7840 N.W. 62 nd STREET
MIAMI, FL. 33166
TEL (305) 593-6590 FAX (305) 593-6592

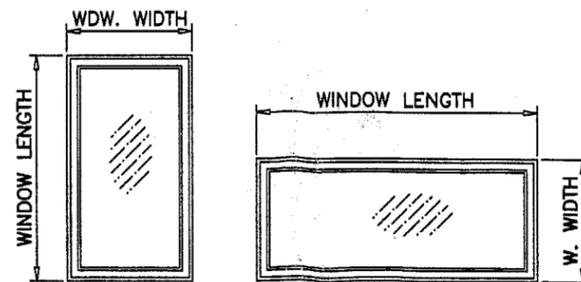
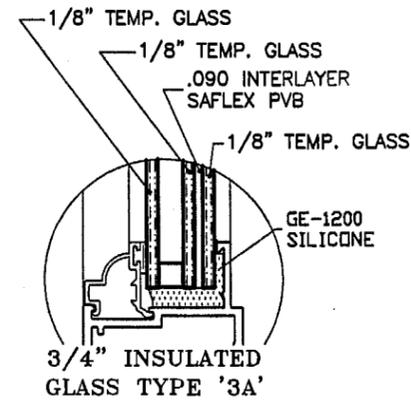
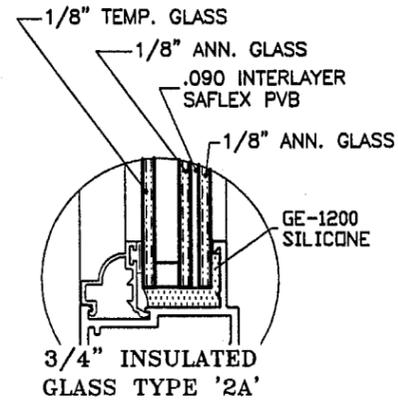
no	date	description
B	06.09.01	CHARTS REV. PER ASTM E-1300

date: 02-19-99
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W99-10
sheet 3 of 6

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS					
NO SHUTTERS REQUIRED					
REFER TO SHEETS 5 AND 6 FOR INSTALLATION DETAILS					
WINDOW DIMS.		GLASS TYPE '2A'		GLASS TYPE '3A'	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24"	36"	110.0	157.0	110.0	195.8
30"		110.0	112.6	110.0	156.6
36"		89.0	89.0	110.0	130.5
42"		73.1	73.1	110.0	120.0
48"		63.1	63.1	110.0	120.0
54"		56.1	56.1	110.0	120.0
60"	50.3	50.3	110.0	120.0	
24"	42"	110.0	137.3	110.0	193.6
30"		93.6	93.6	110.0	156.6
36"		73.1	73.1	110.0	120.0
42"		74.8	74.8	96.9	111.9
48"		66.0	66.0	96.9	111.9
54"		59.1	59.1	96.9	111.9
60"	52.5	52.5	90.0	90.0	
24"	48"	110.0	120.0	110.0	184.4
30"		80.5	80.5	110.0	120.0
36"		63.1	63.1	110.0	120.0
42"		66.0	66.0	96.9	111.9
48"		59.0	59.0	84.8	97.9
54"		53.2	53.2	90.0	90.0
60"	48.0	48.0	90.0	90.0	
24"	54"	110.0	112.0	110.0	177.8
30"		71.2	71.2	110.0	120.0
36"		56.1	56.1	110.0	120.0
42"		59.1	59.1	96.9	111.9
48"		53.2	53.2	90.0	90.0
54"		48.9	48.9	80.0	80.0
60"	44.3	44.3	80.0	80.0	
24"	60"	108.8	108.8	110.0	120.0
30"		64.5	64.5	110.0	120.0
36"		50.3	50.3	110.0	120.0
42"		52.5	52.5	90.0	90.0
48"		48.0	48.0	90.0	90.0
54"		44.3	44.3	80.0	80.0
24"	66"	100.4	100.4	110.0	120.0
30"		62.4	62.4	110.0	120.0
36"		44.7	44.7	90.0	90.0
42"		47.4	47.4	90.0	90.0
48"		43.9	43.9	90.0	90.0
54"		38.6	38.6	90.0	90.0
24"	72"	99.2	99.2	110.0	120.0
30"		57.7	57.7	110.0	120.0
36"		41.4	41.4	90.0	90.0
42"		42.7	42.7	90.0	90.0
48"		38.6	38.6	90.0	90.0

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS					
NO SHUTTERS REQUIRED					
REFER TO SHEETS 5 AND 6 FOR INSTALLATION DETAILS					
WINDOW DIMS.		GLASS TYPE '2A'		GLASS TYPE '3A'	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24"	78"	98.6	98.6	110.0	120.0
30"		55.8	55.8	90.0	90.0
36"		38.3	38.3	90.0	90.0
42"		37.9	37.9	90.0	90.0
24"	84"	92.4	92.4	110.0	120.0
30"		53.2	53.2	90.0	90.0
36"		36.0	36.0	90.0	90.0
42"		34.2	34.2	90.0	90.0
24"	96"	84.3	84.3	110.0	120.0
30"		50.6	50.6	90.0	90.0
36"		34.2	34.2	90.0	90.0
42"		34.2	34.2	90.0	90.0
24"	108"	63.7	63.7	90.0	90.0
30"		48.5	48.5	90.0	90.0
24"	120"	49.2	49.2	90.0	90.0
19-1/8"	26"	110.0	170.0	110.0	210.0
26-1/2"		110.0	166.2	110.0	180.7
37"		110.0	132.7	110.0	180.7
53-1/8"		93.2	93.2	110.0	120.0
19-1/8"	38-3/8"	110.0	170.0	110.0	210.0
26-1/2"		110.0	123.3	110.0	177.3
37"		79.2	79.2	110.0	120.0
53-1/8"		53.7	53.7	106.1	120.0
19-1/8"	50-5/8"	110.0	170.0	110.0	210.0
26-1/2"		95.1	95.1	110.0	169.7
37"		58.5	58.5	110.0	120.0
53-1/8"		51.6	51.6	85.3	85.3
19-1/8"	63"	110.0	170.0	110.0	204.6
26-1/2"		80.8	80.8	110.0	120.0
37"		46.2	46.2	110.0	120.0
53-1/8"		42.9	42.9	81.3	81.3
19-1/8"	74-1/4"	110.0	120.0	110.0	120.0
26-1/2"		75.2	75.2	110.0	120.0
37"	38.8	38.8	90.0	90.0	



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

SEE SHEETS 5 & 6 FOR ANCHORS

Engr: DR. HUMAYOON FAROOQ
STRUCTURES
FLA. PE # 16557

OCT 4 2001

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE: OCT 25 2001
BY: *Muhammad Farooq*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0918-01

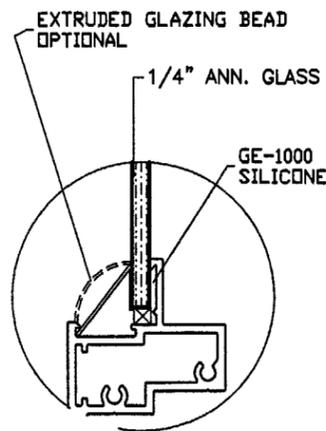
afc
AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL\W99-10CGI

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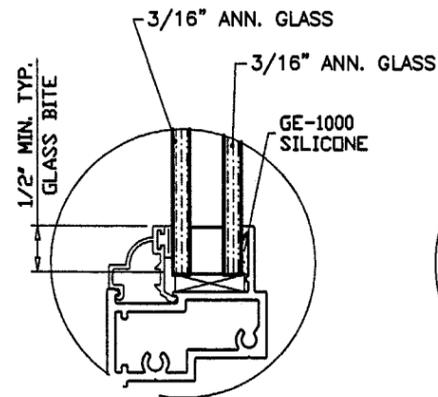
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C	10.04.01	CHART REV. PER BCOO COMMENTS

date: 02-19-99
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

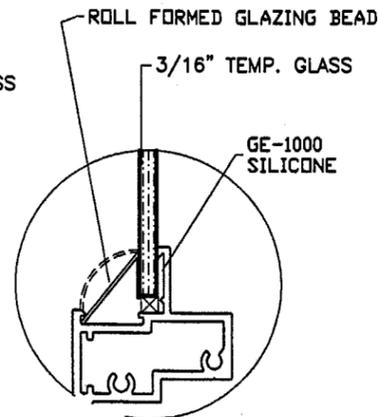
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W99-10
sheet 3A of 6



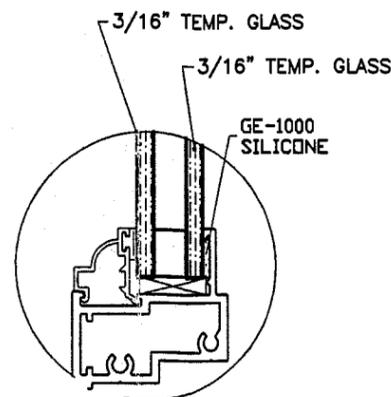
1/4" NOMINAL
GLASS TYPE '4'



3/4" OVERALL INSUL. ANN.
ALT. GLASS TYPE '4A'



3/16" NOMINAL
GLASS TYPE '5'



3/4" OVERALL INSUL. TEMP.
ALT. GLASS TYPE '5A'

PERFORMANCE VALUES OF NON-IMPACT RESISTANT WINDOWS
DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED
REFER TO SHEETS 5 AND 6 FOR INSTALLATION DETAILS

WINDOW DIMS.		GLASS TYPE '4'		GLASS TYPE '4A'		GLASS TYPE '5' & '5A'	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24"	60"	81.7	81.7	81.7	81.7	110.0	172.9
30"		69.7	69.7	69.7	69.7	110.0	147.5
36"		57.7	57.7	61.7	61.7	110.0	130.5
24"	66"	79.9	79.9	79.9	79.9	110.0	169.0
30"		67.6	67.6	67.6	67.6	110.0	143.2
24"	72"	78.4	78.4	78.4	78.4	110.0	166.0
30"		64.4	64.4	66.0	66.0	110.0	139.8
24"	78"	77.2	77.2	77.2	77.2	110.0	163.4
24"	84"	76.2	76.2	76.2	76.2	110.0	161.3
24"	96"	74.7	74.7	74.7	74.7	110.0	158.1
19-1/8"	26"	110.0	116.1	110.0	116.1	110.0	210.0
26-1/2"		85.4	85.4	85.4	85.4	110.0	180.7
37"		85.4	85.4	85.4	85.4	110.0	180.7
53-1/8"	38-3/8"	79.9	79.9	79.9	79.9	110.0	169.0
19-1/8"		109.2	109.2	109.2	109.2	110.0	210.0
26-1/2"		83.8	83.8	83.8	83.8	110.0	177.3
37"	60.0	60.0	60.0	60.0	110.0	127.0	
53-1/8"	50-5/8"	57.9	57.9	57.9	57.9	107.1	123.7
19-1/8"		101.1	101.1	101.1	101.1	110.0	210.0
26-1/2"		80.2	80.2	80.2	80.2	110.0	169.7
37"	60.0	60.0	60.0	60.0	110.0	127.0	
19-1/8"	63"	96.7	96.7	96.7	96.7	110.0	204.6
26-1/2"		74.9	74.9	74.9	74.9	110.0	158.6
37"		53.6	53.6	60.0	60.0	110.0	127.0
19-1/8"	74-1/4"	94.1	94.1	94.1	94.1	110.0	199.2
26-1/2"		72.0	72.0	72.0	72.0	110.0	152.5

PERFORMANCE VALUES OF NON-IMPACT RESISTANT WINDOWS
DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED
REFER TO SHEETS 5 AND 6 FOR INSTALLATION DETAILS

WINDOW DIMS.		GLASS TYPE '4'		GLASS TYPE '4A'		GLASS TYPE '5' & '5A'	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24"	36"	92.5	92.5	92.5	92.5	110.0	195.8
30"		74.0	74.0	74.0	74.0	110.0	156.6
36"		61.7	61.7	61.7	61.7	110.0	130.5
42"		61.7	61.7	61.7	61.7	110.0	130.5
48"		61.7	61.7	61.7	61.7	110.0	130.5
54"		61.7	61.7	61.7	61.7	110.0	130.5
60"		57.7	57.7	61.7	61.7	110.0	130.5
24"	42"	91.5	91.5	91.5	91.5	110.0	193.6
30"		74.0	74.0	74.0	74.0	110.0	156.6
36"		61.7	61.7	61.7	61.7	110.0	130.5
42"		52.9	52.9	52.9	52.9	96.9	111.9
48"		52.9	52.9	52.9	52.9	96.9	111.9
54"		52.9	52.9	52.9	52.9	96.9	111.9
24"	48"	87.1	87.1	87.1	87.1	110.0	184.4
30"		74.0	74.0	74.0	74.0	110.0	156.6
36"		61.7	61.7	61.7	61.7	110.0	130.5
42"		52.9	52.9	52.9	52.9	96.9	111.9
48"		46.3	46.3	46.3	46.3	84.8	97.9
24"	54"	84.0	84.0	84.0	84.0	110.0	177.8
30"		72.4	72.4	72.4	72.4	110.0	153.2
36"		61.7	61.7	61.7	61.7	110.0	130.5
42"		52.9	52.9	52.9	52.9	96.9	111.9

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557

[Signature]

OCT 4 2001

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE OCT 25 2001
BY Manuel Sere
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0918-01

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
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SERIES-238 ALUMINUM FIXED WINDOW
CONSTRUCTION GLASS IND. CORP.
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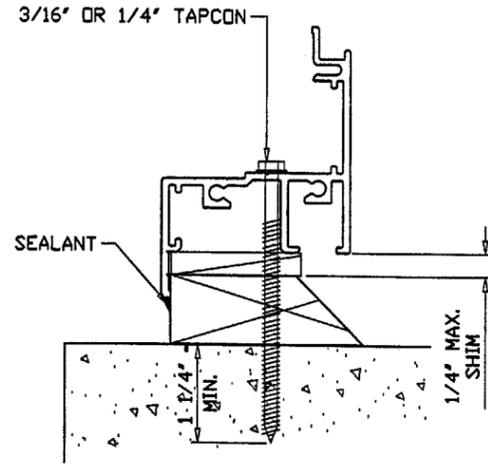
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C	10.04.01	GLASS REV. PER BCCO COMMENTS

date: 02-19-99
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

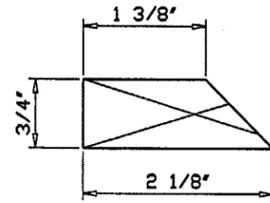
drawing no.
W99-10
sheet 4 of 6

INSTALLATION CONDITIONS (APPLIES TO ALL FOUR SIDES)

FOR ANCHOR PERFORMANCE VALUES SEE SHEET 6

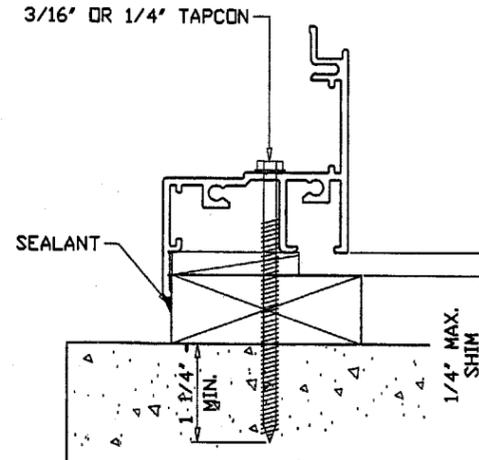


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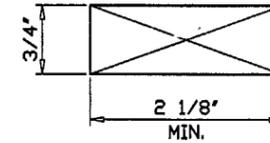


WOOD BUCK TYPE '1'
MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

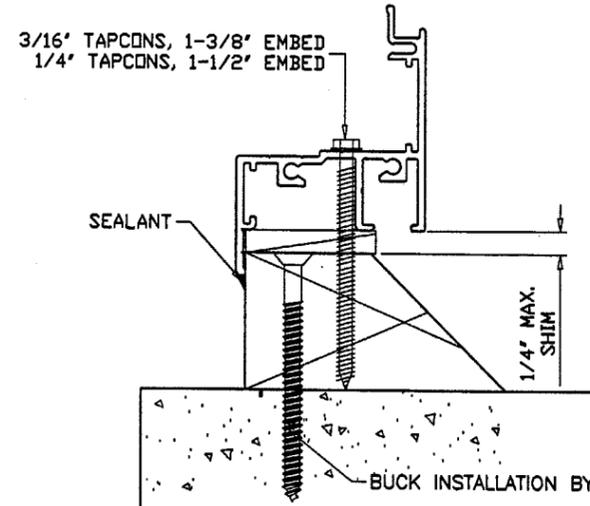


INSTALLATION TYPE '2'

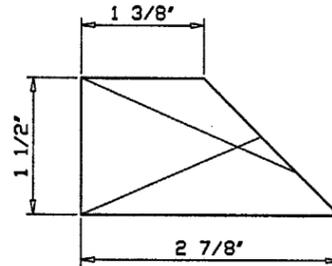


WOOD BUCK TYPE '2'
MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

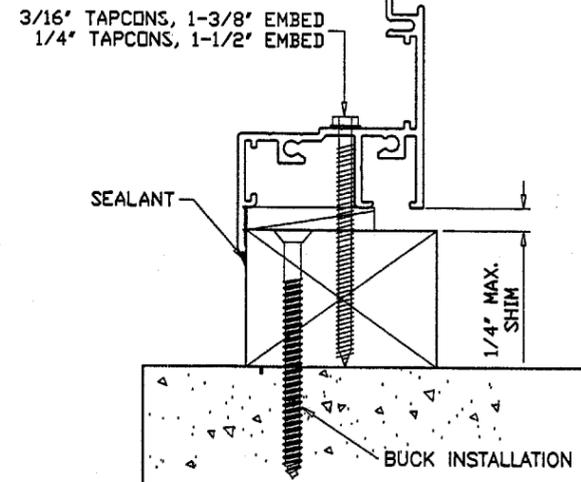


INSTALLATION TYPE '3'

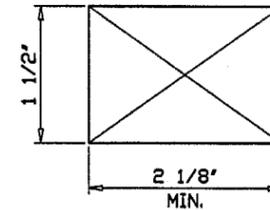


WOOD BUCK TYPE '3'
MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

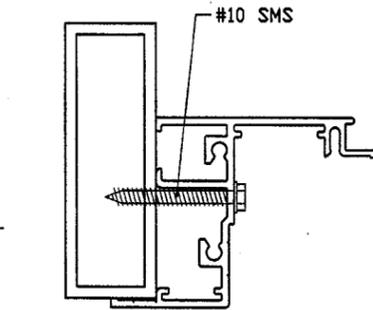


INSTALLATION TYPE '4'



WOOD BUCK TYPE '4'
MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



ATTACHMENT TO
APPROVED MULLIONS

WOOD BUCKS NOT BY CGI CORP., MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557

OCT 4 2001

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE **OCT 25 2001**
BY *Manuel*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. **01-0918-01**



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MIAMI, FL. 33166
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revisions:	no	date	by	description
	B	08.09.01		REVISED

date: 02-19-99
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no. **W99-10**
sheet 5 of 6

PERFORMANCE VALUES FOR INSTALLATION OF ANCHORS TYPE 'A' 'B' OR 'C'
REFER TO SHEET 5 FOR DETAILS

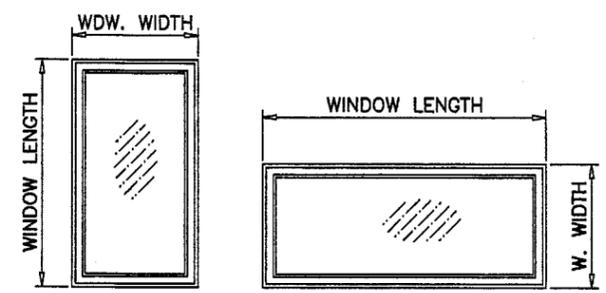
WINDOW DIMS.		ANCHOR TYPE 'A'	ANCHOR TYPE 'B'	ANCHOR TYPE 'C'
WIDTH	HEIGHT			
24"	36"	198.0	220.0	220.0
30"		158.4	189.6	220.0
36"		132.0	158.0	184.0
42"		105.6	126.4	147.2
48"		132.0	158.0	184.0
54"		113.1	135.4	157.7
60"	99.0	118.5	138.0	
24"	42"	158.4	189.6	220.0
30"		126.7	151.7	176.6
36"		105.6	126.4	147.2
42"		90.5	108.3	126.2
48"		113.1	135.4	157.7
54"		97.0	116.1	135.2
60"	84.9	101.6	118.3	
24"	48"	198.0	220.0	220.0
30"		158.4	189.6	220.0
36"		132.0	158.0	184.0
42"		113.1	135.4	157.7
48"		99.0	118.5	138.0
54"		84.9	101.6	118.3
60"	74.3	88.9	103.5	
24"	54"	169.7	203.1	220.0
30"		135.8	162.5	189.3
36"		113.1	135.4	157.7
42"		97.0	116.1	135.2
48"		84.9	101.6	118.3
54"		75.4	90.3	105.1
60"	66.0	79.0	92.0	
24"	60"	148.5	177.8	207.0
30"		118.8	142.2	165.6
36"		99.0	118.5	138.0
42"		84.9	101.6	118.3
48"		74.3	88.9	103.5
54"		66.0	79.0	92.0
60"	59.4	71.1	82.8	
24"	66"	176.0	210.7	220.0
30"		140.8	168.5	196.3
36"		117.3	140.4	163.6
42"		100.6	120.4	140.2
48"		88.0	105.3	122.7
54"		78.2	93.6	109.0
60"	70.4	84.3	98.1	
24"	72"	158.4	189.6	220.0
30"		126.7	151.7	176.6
36"		105.6	126.4	147.2
42"		90.5	108.3	126.2
48"		79.2	94.8	110.4
54"		70.4	84.3	98.1
60"	63.4	75.8	88.3	

PERFORMANCE VALUES FOR INSTALLATION OF ANCHORS TYPE 'A' 'B' OR 'C'
REFER TO SHEET 5 FOR DETAILS

WINDOW DIMS.		ANCHOR TYPE 'A'	ANCHOR TYPE 'B'	ANCHOR TYPE 'C'
WIDTH	HEIGHT			
24"	78"	144.0	172.4	200.7
30"		115.2	137.9	160.6
36"		96.0	114.9	133.8
42"		82.3	98.5	114.7
48"		72.0	86.2	100.4
54"		64.0	76.6	89.2
60"		57.6	68.9	80.3
66"		52.4	62.7	73.0
72"	48.0	57.5	66.9	
78"	44.3	53.0	61.8	
24"	84"	165.0	197.5	220.0
30"		132.0	158.0	184.0
36"		110.0	131.7	153.3
42"		94.3	112.9	131.4
48"		82.5	98.8	115.0
54"		73.3	87.8	102.2
60"		66.0	79.0	92.0
66"		60.0	71.8	83.6
72"	55.0	65.8	76.7	
24"	96"	141.4	169.3	197.1
30"		113.1	135.4	157.7
36"		94.3	112.9	131.4
42"		80.8	96.7	112.7
48"		70.7	84.6	98.6
54"		62.9	75.2	87.6
60"		56.6	67.7	78.9
66"		51.4	61.6	71.7
72"	47.1	56.4	65.7	
24"	108"	148.5	177.8	207.0
30"		118.8	142.2	165.6
36"		99.0	118.5	138.0
42"		84.9	101.6	118.3
48"		74.3	88.9	103.5
54"		66.0	79.0	92.0
60"		59.4	71.1	82.8
66"		53.1	64.8	76.4
24"	120"	154.0	184.3	214.7
30"		123.2	147.5	171.7
36"		102.7	122.9	143.1
42"		88.0	105.3	122.7
48"		77.0	92.2	107.3
54"		68.4	81.9	95.4
60"		60.0	73.0	84.3
66"		52.4	65.8	76.7
24"	132"	158.4	189.6	220.0
30"		126.7	151.7	176.6
36"		105.6	126.4	147.2
42"		90.5	108.3	126.2
48"		79.2	94.8	110.4
54"		70.4	84.3	98.1
60"		63.4	75.8	88.3
66"		56.1	68.5	81.0
24"	144"	144.0	172.4	200.7
30"		115.2	137.9	160.6
36"		96.0	114.9	133.8
42"		82.3	98.5	114.7
48"		72.0	86.2	100.4
54"		64.0	76.6	89.2
60"		57.6	68.9	80.3
66"		52.4	62.7	73.0
24"	156"	148.5	177.8	207.0
30"		118.8	142.2	165.6
36"		99.0	118.5	138.0
42"		84.9	101.6	118.3
48"		74.3	88.9	103.5
54"		66.0	79.0	92.0
60"		59.4	71.1	82.8
66"		53.1	64.8	76.4

PERFORMANCE VALUES FOR INSTALLATION OF ANCHORS TYPE 'A' 'B' OR 'C'
REFER TO SHEET 5 FOR DETAILS

WINDOW DIMS.		ANCHOR TYPE 'A'	ANCHOR TYPE 'B'	ANCHOR TYPE 'C'
WIDTH	HEIGHT			
19-1/8"	26"	220.0	220.0	220.0
26-1/2"		214.0	220.0	220.0
37"		175.5	210.0	220.0
53-1/8"		160.0	191.5	220.0
19-1/8"	38-3/8"	220.0	220.0	220.0
26-1/2"		163.2	195.3	220.0
37"		116.9	139.9	162.9
53-1/8"		108.4	129.8	151.1
19-1/8"	50-5/8"	220.0	220.0	220.0
26-1/2"		167.1	200.1	220.0
37"		119.7	143.3	166.9
53-1/8"		82.2	98.4	114.5
19-1/8"	63"	175.4	209.9	220.0
26-1/2"		126.6	151.5	176.4
37"		90.7	108.5	126.4
53-1/8"		63.1	75.6	88.0
19-1/8"	74-1/4"	191.6	220.0	220.0
26-1/2"		138.3	165.5	192.7
37"		99.0	118.5	138.0
53-1/8"		69.0	82.6	96.1



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

ANCHORS:
A = 3/16" TAPCONS
 INTO 2BY BUCKS OR WOOD STRUCTURES
 1-3/8" MIN. EMBEDMENT
 THRU 1BY WOOD BUCKS INTO MASONRY
 OR DIRECTLY INTO MASONRY
 1-1/4" MIN. MASONRY EMBED
B = 1/4" TAPCONS
 INTO 2BY BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. WOOD EMBEDMENT
C = 1/4" TAPCONS
 THRU WOOD BUCKS INTO MASONRY
 1-1/4" MIN. MASONRY EMBED
#10 SMS
 INTO APPROVED MULLIONS
 TAPCONS AS MANUFACTURED BY ELCO.

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 18557

OCT 4 2001

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE **OCT 25 2001**
BY *Manuel...*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. **01-0918-01**

AL-FAROOQ CORPORATION
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Revisions:
no. date description
B 08.09.01 CHARTS REV. PER 1997 NDS
C 10.04.01 ANCHOR REV. PER BCCO COMMENTS

date: 02-19-99
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no. **W99-10**
sheet 6 of 6