



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](http://www.buildingcodeonline.com)

Arch Aluminum & Glass Co. Inc.  
10200 NW 67<sup>th</sup> Street  
Tamarac, FL 33321

**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 IFG 5000 Aluminum Storefront**

**APPROVAL DOCUMENT:** Drawing No. **04-179R1**, titled "Series IFG 5000 Aluminum Storefront", sheets 1 through 5 of 5, prepared by EngCo Inc., dated 08/17/05, signed and sealed by Pedro De Figueiredo, 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: Large and Small Missile Impact**

**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 revises NOA # **04-0831.03** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Herminio F. Gonzalez, P.E., Director, BCCO**



NOA No 05-0829.07  
Expiration Date: October 21, 2009  
Approval Date: December 08, 2005  
Page 1

Arch Aluminum & Glass Co. Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **04-179R1**, Sheets 1 through 5 of 5, titled "Series IFG 5000 Aluminum Storefront" prepared by EngCo, Inc., dated 08/17/05, signed and sealed by Pedro De Figueriedo, P.E.

**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
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3981**, dated 01/27/04, signed and sealed by Edmundo Largaespada, P.E.  
**"Submitted under NOA# 04-0831.03"**
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) Large Missile Impact Test per FBC, TAS 201-94
  - 4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 5) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4184**, dated 06/18/04, signed and sealed by Edmundo Largaespada, P.E.  
**"Submitted under NOA# 04-0831.03"**

**C. CALCULATIONS**

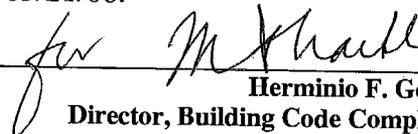
1. Anchor Calculations, ASTM- E1300-02, and structural analysis, prepared by EngCo. Inc., dated 08/03/04, signed and sealed by Pedro De Figueriedo, P.E.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **01-1204.01**, issued to E.I. DuPont DeNemours for their "Sentry Glass ® Plus", approved on 01/17/02 and expiring on 01/14/07.
2. Notice of Acceptance No. **01-0205.02**, issued to Solutia, Inc. for their "Saflex/Keepsafe Maximum", approved on 05/17/01 and expiring on 05/21/06.
3. Notice of Acceptance No. **03-0421.01**, issued to Solutia, Inc. for their "Saflex HP", approved on 05/17/01 and expiring on 05/21/06.



Herminio F. Gonzalez, P.E.  
Director, Building Code Compliance Office  
NOA No 05-0829.07

Expiration Date: October 21, 2009

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**Arch Aluminum & Glass Co. Inc.**

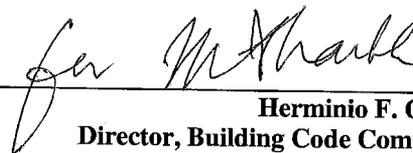
**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS**

1. Statement letter of conformance and no financial interest, dated 08/23/04, signed and sealed by Pedro De Figueiredo, P.E.  
*“Submitted under NOA# 04-0831.03”*

**G. OTHER**

1. Letter from consultant, dated October 28, 2005 stating that the product is in compliance with the Florida Building Code (FBC).



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**Herminio F. Gonzalez, P.E.**  
**Director, Building Code Compliance Office**  
**NOA No 05-0829.07**

**Expiration Date: October 21, 2009**  
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**INDEX:**

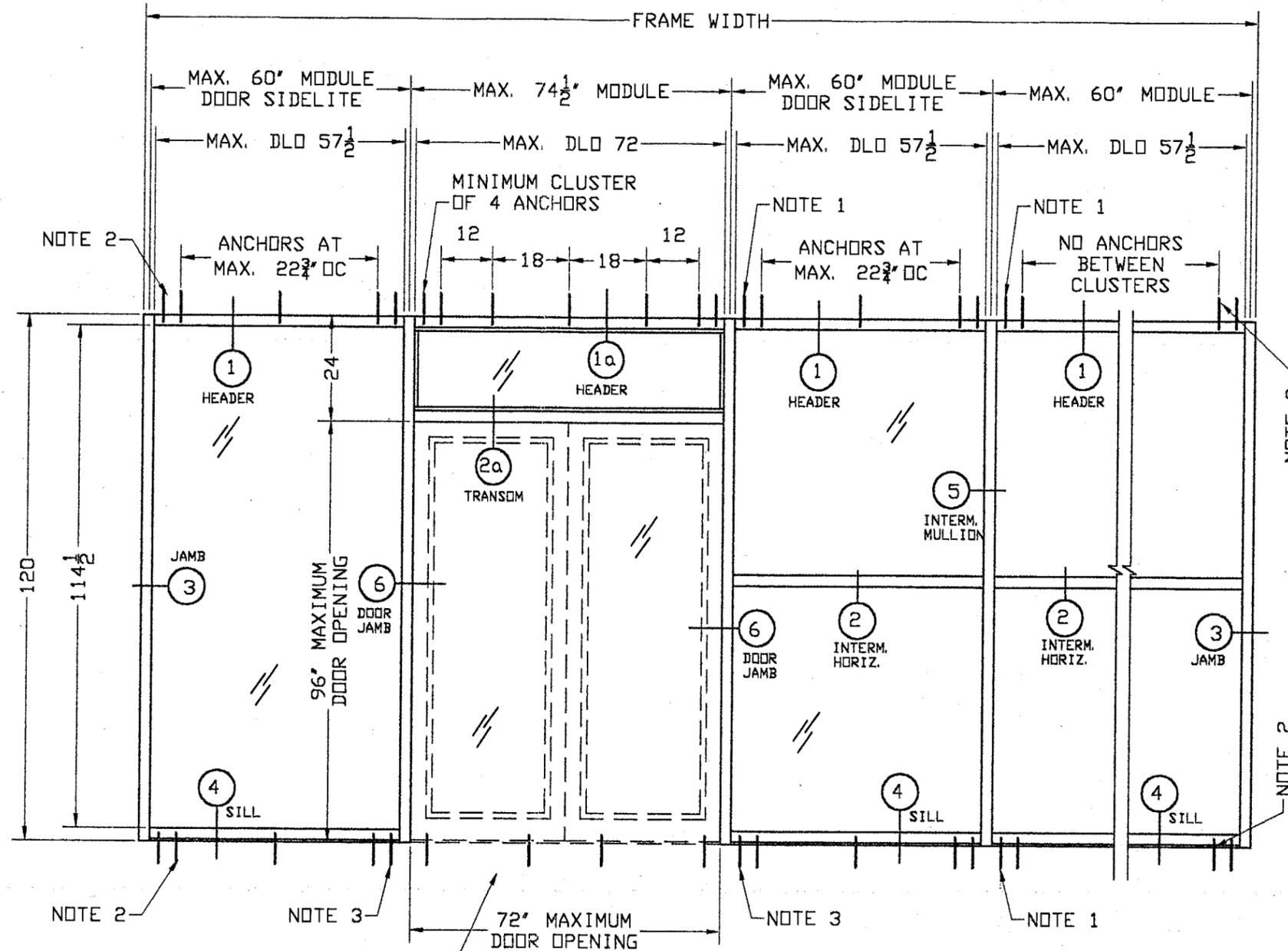
SHEET	DESCRIPTION
1	GENERAL NOTES, INDEX, TYPICAL ELEVATION
2	SECTIONS DETAILS & FRAMING ASSEMBLY
3	SECTIONS & GLAZING DETAILS
4	FRAMING ANCHORAGE DESIGN TABLES
5	FRAMING COMPONENTS & BILL OF MATERIALS

**GENERAL NOTES:**

- 1- CODE: THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2004 EDITION - (HIGH VELOCITY SECTION)
- 2- DEFINITION: THIS PRODUCT IS AN ALUMINUM FIXED STOREFRONT TYPE WINDOW WITH LARGE MISSILE IMPACT RESISTANT LAMINATED GLASS.
- 3- POSTING:  
 'IFG - 5000 SERIES - IMPACT  
 ARCH ALUMINUM & GLASS CO., INC.  
 TAMARAC - BROWARD COUNTY - FLORIDA  
 DADE COUNTY PRODUCT CONTROL APPROVED'
- 4- DESIGN LOADS: LOADS MUST BE CALCULATED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE CALCULATED DESIGNED PRESSURE MUST NOT EXCEED THE ALLOWABLE APPROVED PRESSURE OF ±85 PSF.
- 5- MATERIAL: ALL ALUMINUM PARTS TO BE 6063-T6 OR AS INDICATED AND GLAZING TO BE LAMINATED IMPACT RESISTANT GLASS AS SPECIFIED ON THIS APPROVAL.
- 6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THIS CURRENT SET OF DRAWINGS.
- 7- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:
  - 7.1- THE STABILITY OF THE STRUCTURE WHERE THE UNIT IS TO BE ATTACHED INSURING PROPER ANCHORAGE.
  - 7.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.
  - 7.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.
- 8- 33 1/3% INCREASE IN ALLOWABLE LOADS HAVE NOT BEEN USED IN THE DESIGN OF THE ANCHORS FOR THIS PRODUCT APPROVAL, HOWEVER, WOOD ANCHORS WITH 1.33 INCREASE FOR WIND LOAD DURATION HAVE BEEN USED.

**USER INSTRUCTIONS:**

- 1- DETERMINE PROJECT DESIGN WIND LOAD PRESSURES AS PER ITEM 4 OF GENERAL NOTES, SHEET 1.
- 2- CALCULATE QUANTITY AND TYPE OF ANCHOR TO BE USED FOR A GIVEN TRIBUTARY MODULE WIDTH X MODULE HEIGHT AS PER TABLES 1.1 AND 1.2 ON SHEET 4.
- 3- IF DOORS ARE PART OF THE ELEVATION, INCORPORATE A VALID NOTICE OF ACCEPTANCE SHOWING DOOR DETAILS AND SPECIFICATIONS.



USE ARCH ALUMINUM  
IMPACT DOOR WITH  
VALID MIAMI-DADE NOA

**NOTES:**

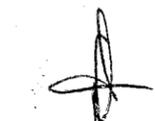
- NOTE 1 - INTERMEDIATE MULLION AND DOOR MULLION TO USE CLUSTERS OF MINIMUM 4 ANCHORS TO BE SELECTED AS PER TABLE 1.1 ON SHEET 4.
- NOTE 2 - JAMB MULLION TO USE CLUSTER OF MINIMUM 2 ANCHORS TO BE SELECTED AS PER TABLE 1.2 ON SHEET 4.
- NOTE 3 - DOOR MULLION TO USE CLUSTER OF MINIMUM 2 ANCHORS AT SILL TO BE SELECTED AS PER TABLE 1.2 ON SHEET 4.

**ALLOWABLE DESIGNED PRESSURE**  
**±85 PSF**  
**LARGE AND SMALL**  
**MISSILE IMPACT RESISTANT**

**MANUFACTURER:**  
**Arch Aluminum & Glass Co. Inc.**  
 10200 NW 67TH STREET  
 TAMARAC - FL - 33321  
 TEL: (800) 432-8132  
 FAX: (954) 724-9293

**PRODUCT:**  
**IFG 5000 Series**  
 ALUMINUM STOREFRONT

**Engineering:**  
**EngCo Inc.**  
 CA 8116  
 6971 W. Sunrise Blvd. 104  
 Plantation, FL 33313  
 Tel.: (954) 585-0304  
 Fax: (954) 585-0305



**AUG 17 2005**  
 Engineer Seal  
 Pedro De Figueiredo  
 PE 52609

Date: 08/17/05  
 Scale: NA  
 Design by: PPMF

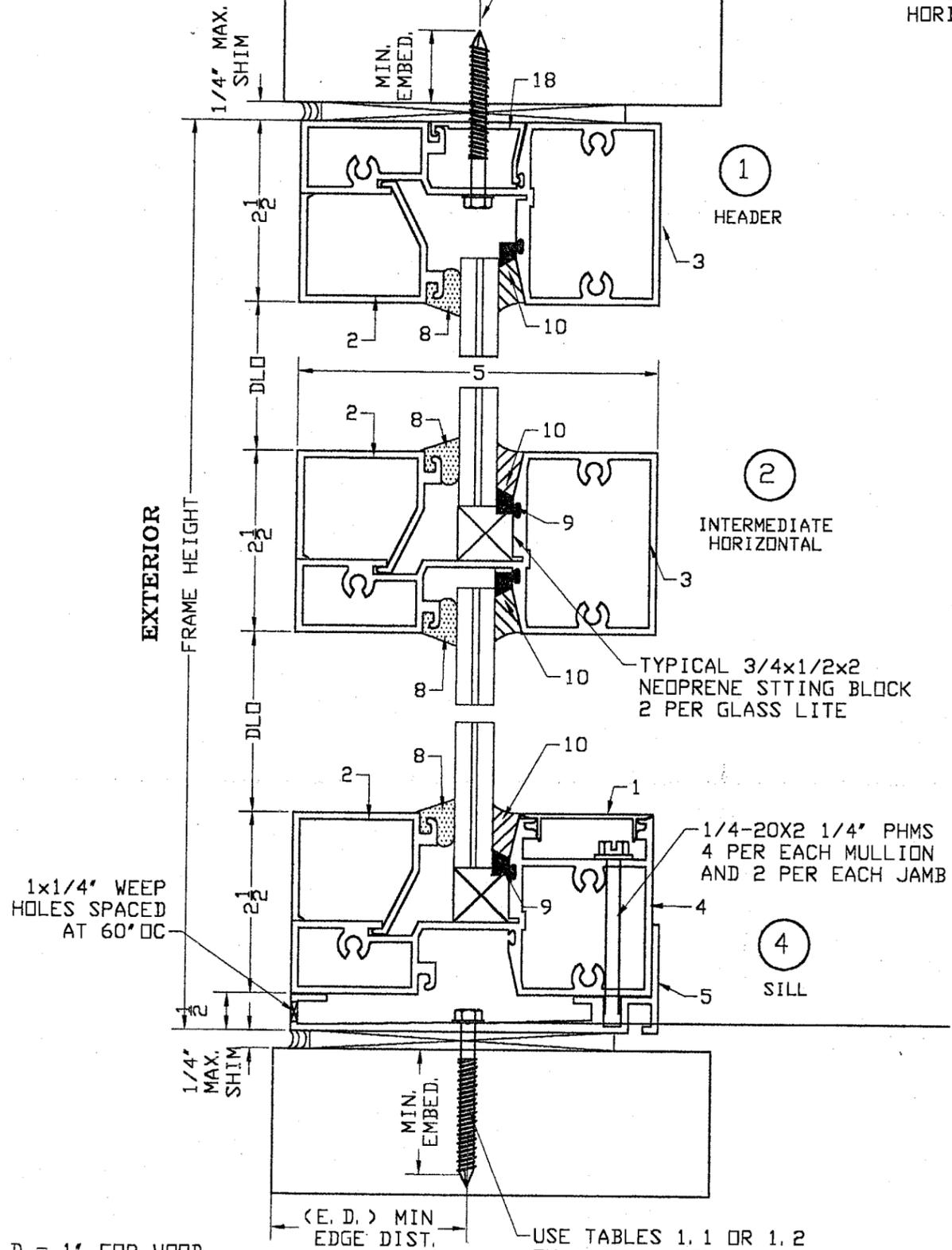
**PRODUCT CONTROL DIVISION:**  
**PRODUCT REVIEWED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 05-0829.07  
 Expiration Date 10/21/09  
 By: *[Signature]*  
 Miami Dade Product Control  
 Division

Drawing Number  
**04-179R1**

Sheet  
**1 of 5**

E. D. = 1" FOR WOOD  
 E. D. = 3" FOR CONCRETE  
 E. D. = 3/4" FOR METAL

USE TABLES 1.1 OR 1.2  
 ON SHEET 4 FOR QUANTITY  
 AND SELECTION

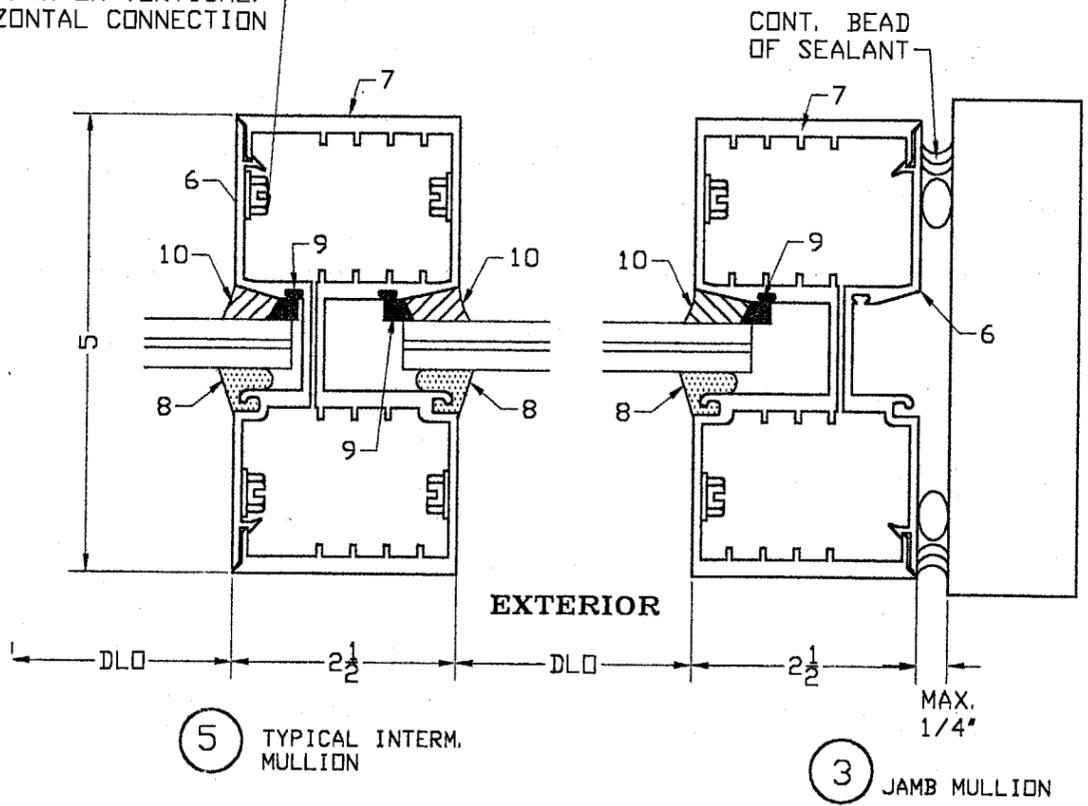


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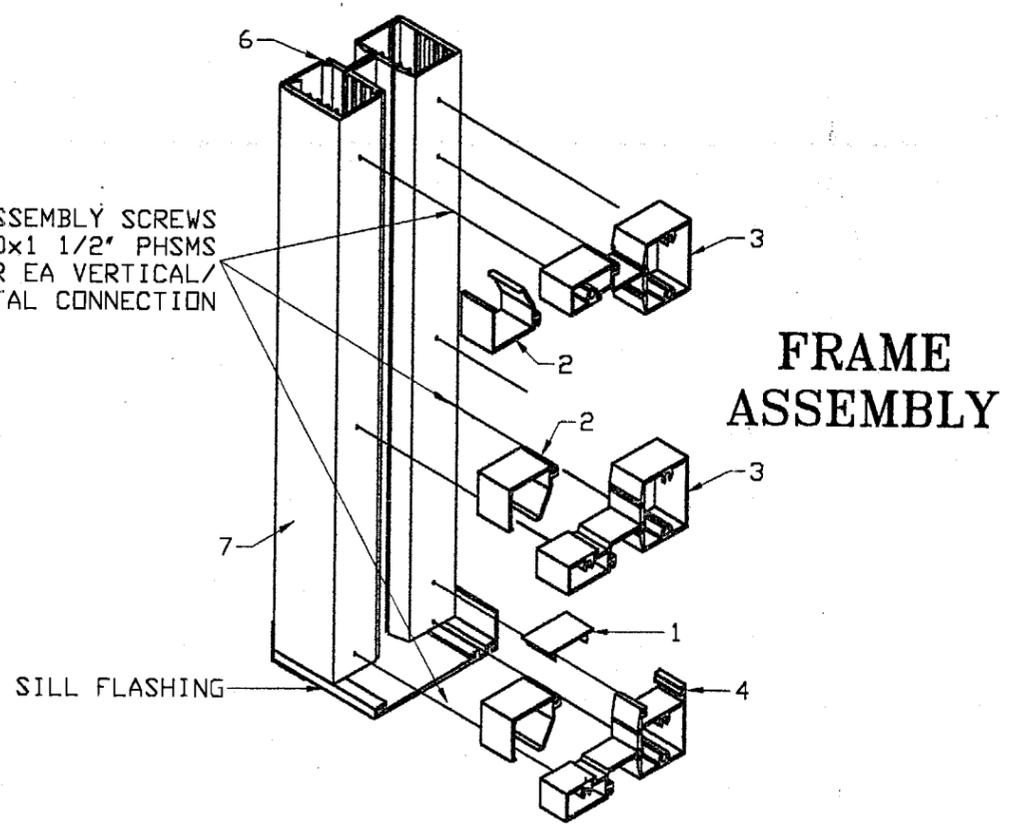
USE TABLES 1.1 OR 1.2  
 ON SHEET 4 FOR QUANTITY  
 AND SELECTION

### SECTION DETAILS

ASSEMBLY SCREWS  
 1/4-20x1 1/2" PHSMS  
 3 PER EA VERTICAL/  
 HORIZONTAL CONNECTION



ASSEMBLY SCREWS  
 1/4-20x1 1/2" PHSMS  
 3 PER EA VERTICAL/  
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Drawing Number  
**04-179R1**

Sheet  
 2 of 5

E. D. = 1' FOR WOOD  
 E. D. = 3' FOR CONCRETE  
 E. D. = 3/4' FOR METAL

(E. D.) MIN. EDGE DISTANCE

USE TABLES 1.1 & 1.2 ON SHEET 4 FOR QUANTITY AND SELECTION

1/4" MAX. SHIM

MIN. EMBED.

#12-24x3/4" FHSMS 2 PER CLIP

1/4-20x3/4" PHSMS 2 PER CLIP

1a

DOOR HEADER

TYPICAL #12-24x3/4" FHSMS SPACED AT 12" OC

#12-24x3/4" FHSMS 2 PER CLIP

2a

DOOR TRANSOM

1/4-20x3/4" PHSMS 2 PER CLIP

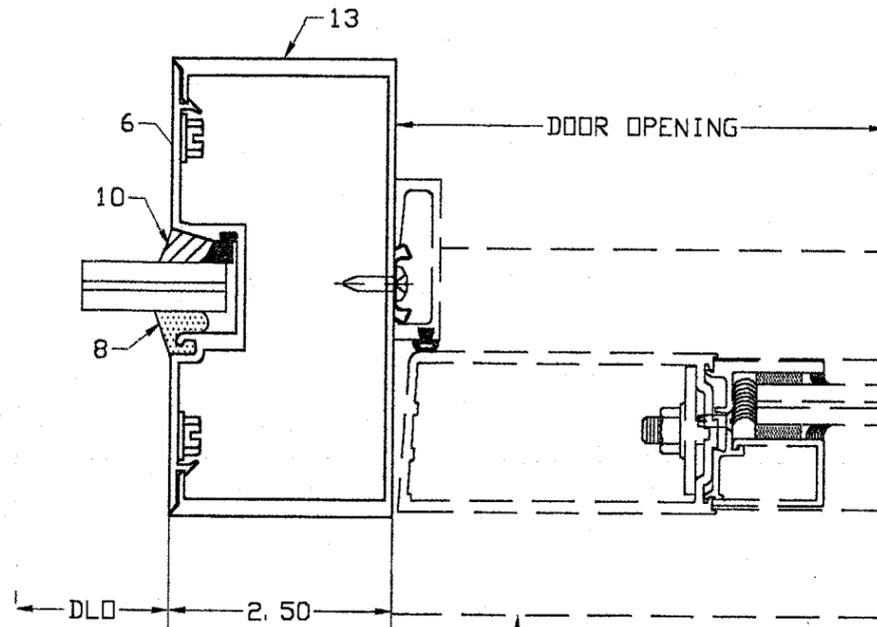
EXTERIOR

DLO

3/4

2 1/2

DOOR WITH VALID NOA, MANUFACTURED BY ARCH ALUMINUM FOR DETAILS AND DESIGN RATING SEE DOOR NOAS



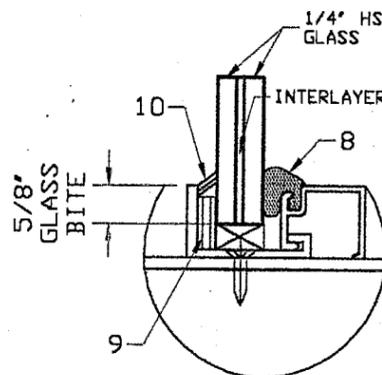
EXTERIOR

6 DOOR MULLION

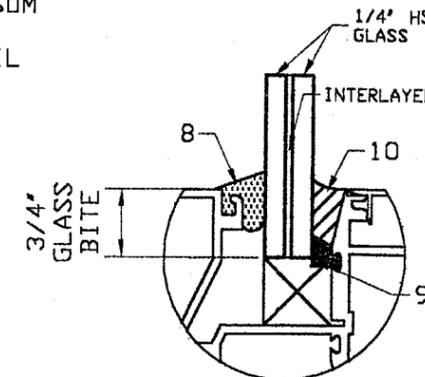
GLAZING CONFIGURATIONS

9/16" HS LAMINATED IMPACT GLASS  
 MADE OF 1/4" HS GLASS+INTERLAYER+1/4" HS GLASS  
 INTERLAYER OPTIONS:

- DUPONT - 0.09" SENTRY GLASS PLUS
- SOLUTIA - 0.09" SAFLEX KEEPSAFE MAX
- SOLUTIA - 0.10" SAFLEX HP



TYPICAL TRANSOM INTERIOR GLAZING DETAIL



TYPICAL FRAMING EXTERIOR GLAZING DETAIL

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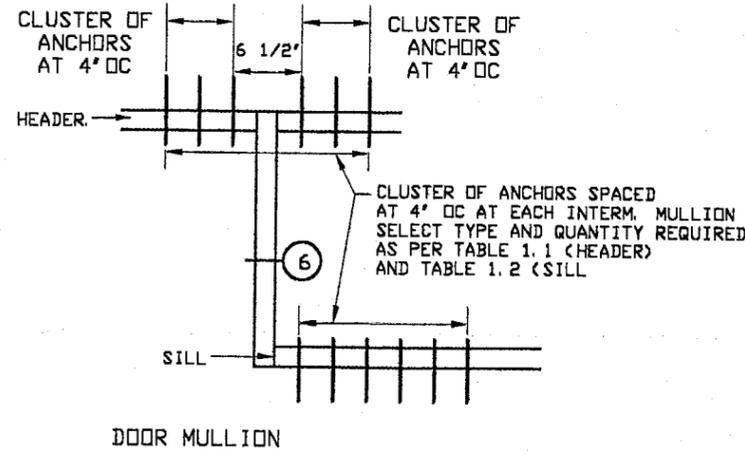
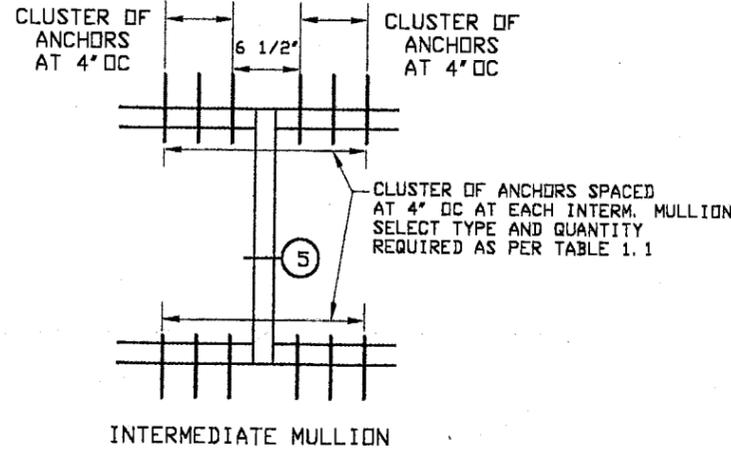
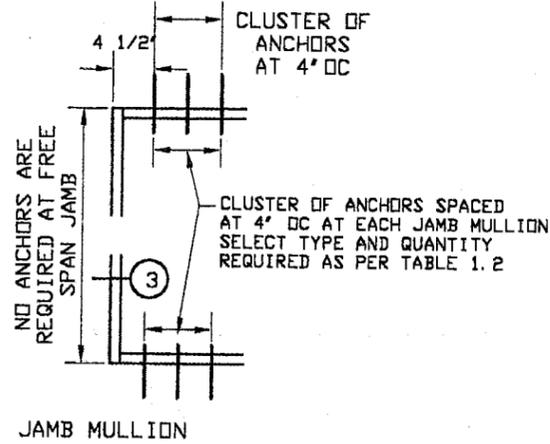
PRODUCT CONTROL DIVISION:

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 By: *M. Shail*  
 Miami Dade Product Control Division

Drawing Number  
 04-179R1

Sheet  
 3 of 5

**MULTIPLE MODULE FRAME ANCHORAGE LAY-OUT**  
 INTERMEDIATE MULLION: 5, DOOR MULLION: 6 AND JAMB MULLION: 3



ANCHOR SCHEDULE: (MIN 2 1/2" EDGE DISTANCE)			
TYPE	DESCRIPTION	EMBEDMENT	SUBSTRATE
A	#14 FLAT HEAD SS WOOD SCREWS	1 1/2"	PT WOOD (SG)= 55
B	1/4" FLAT HEAD TAPCONS	1 3/4"	3350 PSI CONCRETE
C	1/4-20 DRIL-FLEX SCREWS	1/8"	6063-T5 ALUMINUM
D	1/4-20 DRIL-FLEX SCREWS	1/8"	ASTM-A36 STEEL
E	1/4" WEDGE BOLT	2"	3000 PSI CONCRETE

- NOTES:**
- 1- ANCHORS B, C, AND D ARE MANUFACTURED BY ELCO
  - 2- ANCHORS E IS MANUFACTURED BY POWERS FASTENERS
  - 3- ANCHOR A IS A GENERIC STAINLESS STEEL 300 SERIES
  - 4- ANCHORS ARE REQUIRED ONLY AT SILL AND HEADER LOCATIONS
  - 5- JAMBS ARE NOT ANCHORED TO SIDE STRUCTURE. (SEE TYPICAL ANCHOR LAY-OUT)
  - 6- WHEN REQUIRED DUE TO OVERLAPPING, THE ANCHOR SPACING FOR ANCHOR TYPE A SHALL BE REDUCED FROM 4' OC TO 2' OC.

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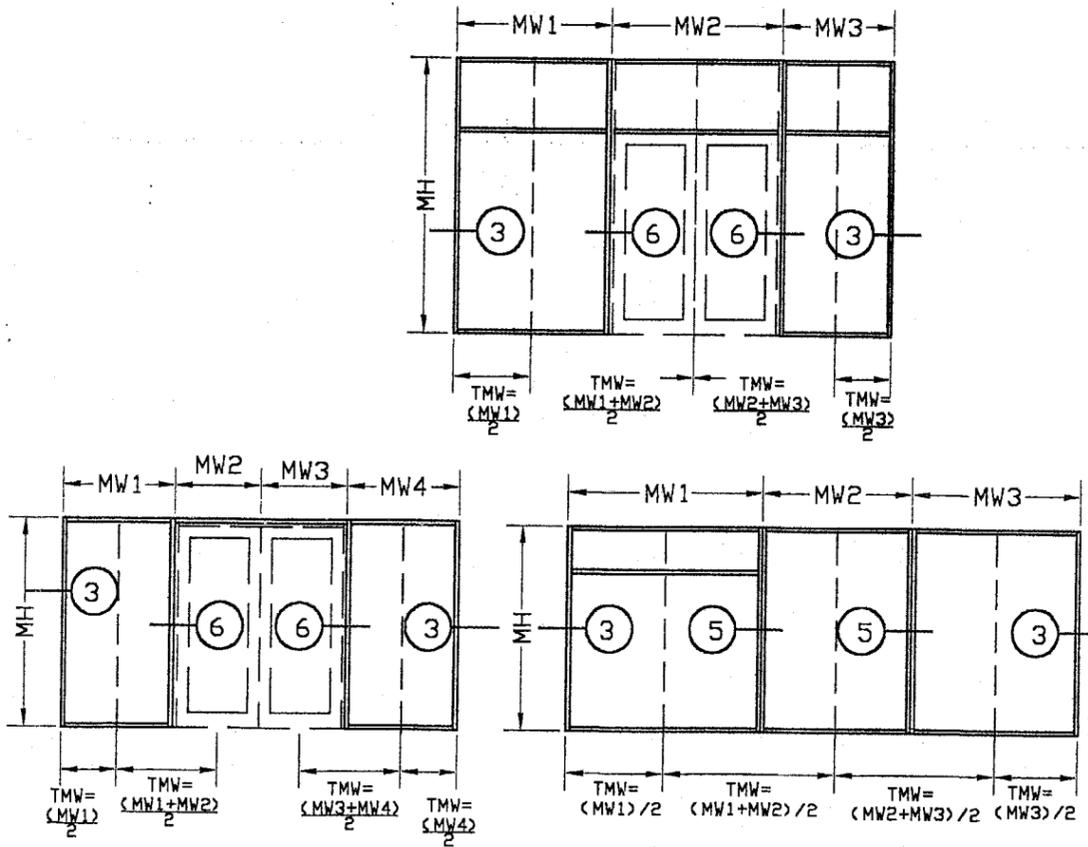
TABLE 1.1 - NUMBER OF ANCHORS REQUIRED HEADER AND SILL INTERM. MULLION DETAIL 5

TMW	ANCHOR TYPE	Pd= 85 psf				Pd=50 psf			
		Module height				Module height			
		84	96	108	120	84	96	108	120
24	A	4	4	4	6	4	4	4	4
	B	4	4	4	4	4	4	4	4
	C	4	4	4	4	4	4	4	4
	D	4	4	4	4	4	4	4	4
	E	4	4	4	4	4	4	4	4
30	A	4	6	6	6	4	4	4	4
	B	4	4	4	4	4	4	4	4
	C	4	4	4	4	4	4	4	4
	D	4	4	4	4	4	4	4	4
	E	4	4	4	4	4	4	4	4
48	A	6	8	8	10	4	4	6	6
	B	4	4	4	4	4	4	4	4
	C	4	4	4	6	4	4	4	4
	D	4	4	4	4	4	4	4	4
	E	4	4	4	4	4	4	4	4
67	A	10	10	12	12	6	6	8	8
	B	4	6	6	6	4	4	4	4
	C	6	6	6	6	4	4	4	4
	D	4	4	4	4	4	4	4	4
	E	4	4	4	4	4	4	4	4

TABLE 1.2 - NUMBER OF ANCHORS REQUIRED HEADER AND SILL JAMB MULLION DETAIL 3 AND SILL DOOR MULLION DETAIL 6

TMW	ANCHOR TYPE	Pd= 85				Pd= 50			
		Module height				Module height			
		84	96	108	120	84	96	108	120
24	A	3	4	4	5	2	2	3	3
	B	2	2	2	2	2	2	2	2
	C	2	2	2	3	2	2	2	2
	D	2	2	2	2	2	2	2	2
	E	2	2	2	2	2	2	2	2
30	A	4	5	5	6	3	3	3	4
	B	2	2	3	3	2	2	2	2
	C	2	3	3	3	2	2	2	2
	D	2	2	2	2	2	2	2	2
	E	2	2	2	2	2	2	2	2
48	A	6	7	8	9	4	4	5	5
	B	3	3	4	4	2	2	2	3
	C	3	4	4	5	2	2	3	3
	D	2	3	3	3	2	2	2	2
	E	2	3	3	3	2	2	2	2
67	A	9	10	11	12	5	6	7	8
	B	4	5	5	6	3	3	3	3
	C	5	5	6	6	3	3	4	4
	D	3	4	4	4	2	2	2	3
	E	3	3	4	4	2	2	2	3

TMW= TRIBUTARY MODULE WIDTH



*[Signature]*  
**AUG 17 2005**  
 Engineer Seal  
 Pedro De Figueiredo  
 PE 52609

Date: 08/17/05  
 Scale: NA  
 Design by: PPMF

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*[Signature]*  
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Drawing Number  
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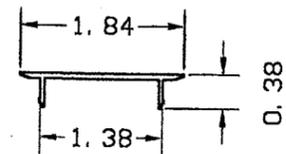
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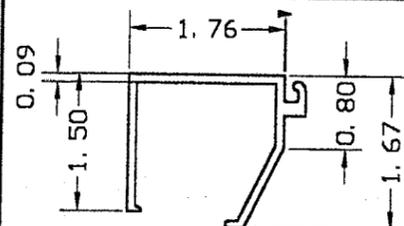
Sheet  
**5 of 5**

**FRAMING COMPONENTS & BILL OF MATERIAL**

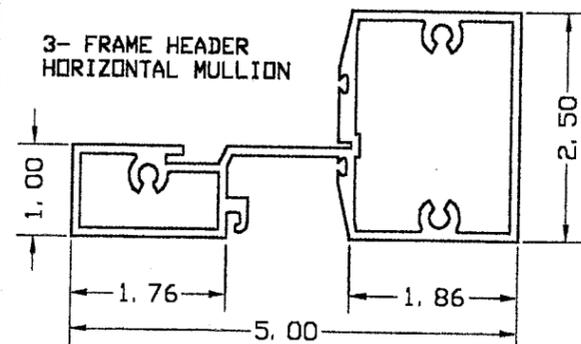
ITEM#	PART #	DESCRIPTION	MATERIAL	SUPPLIER/REMARKS
1	50507	FLAT FILLER	6063-T6	ARCH ALUMINUM
2	50503	GLAZING STOP	6063-T6	ARCH ALUMINUM
3	50504	HEADER/MULL	6063-T6	ARCH ALUMINUM
4	50502	SILL	6063-T6	ARCH ALUMINUM
5	50505	SILL FLASHING	6063-T6	ARCH ALUMINUM
6	50506	POCKET FILLER	6063-T6	ARCH ALUMINUM
7	50510	JAMB/MULL	6063-T6	ARCH ALUMINUM
8	H-63	WEDGE-IN GASKET	NEOPRENE	UNIVERSAL RUBBER
9	V2100	TAPE 3/8x1/4	-	NORTON
10	995	STRUCTURAL SILICONE	-	DOW CORNING
11	3008	GLAZING ADAPTER	6063-T6	ARCH ALUMINUM
12	3009	FIXED LITE STOP	6063-T6	ARCH ALUMINUM
13	50512	DOOR JAMB	6063-T6	ARCH ALUMINUM
14	50513	DOOR HEADER/TRANSOM	6063-T6	ARCH ALUMINUM
15		#12-24x3/4 PFHMS (UNDERCUT)	SS	
16		1/4-20x5/8 PPHMS	SS	
17	38424	SHEAR BLOCK	6063-T6	ARCH ALUMINUM
18	AGA881	FLAT POCKET FILLER	6063-T6	ARCH ALUMINUM



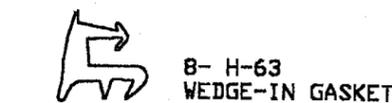
1- FLAT FILLER



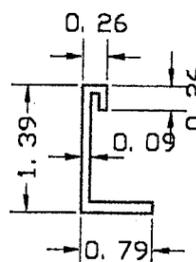
2- GLAZING STOP



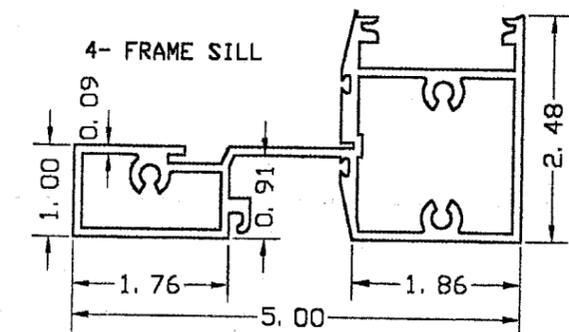
3- FRAME HEADER  
 HORIZONTAL MULLION



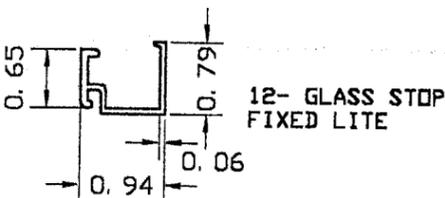
8- H-63  
 WEDGE-IN GASKET



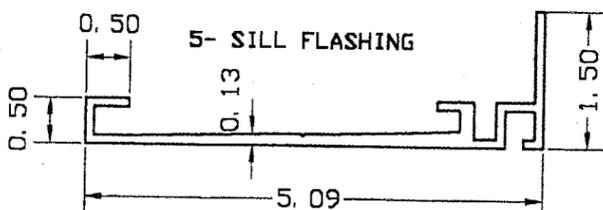
11- GLAZING ADAPTER



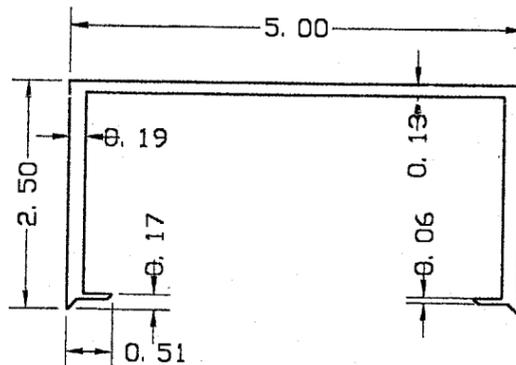
4- FRAME SILL



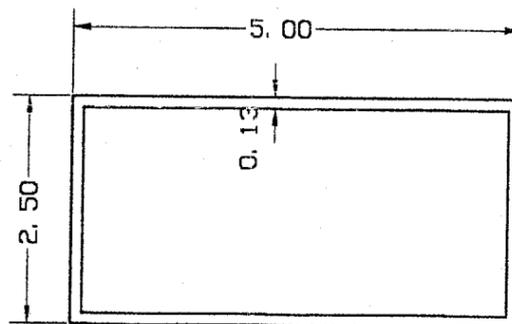
12- GLASS STOP  
 FIXED LITE



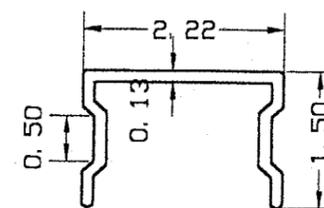
5- SILL FLASHING



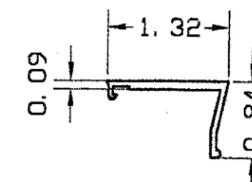
13- DOOR JAMB



14- DOOR HEADER/TRANSOM



17- SHEAR BLOCK



18- POCKET FILLER