



**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) 372-6339**

NOTICE OF ACCEPTANCE (NOA)

www.maimidade.gov/buildingcode

**Galaxy Window and Door, Inc.
1900 N. Andrews Ave, # C
Pompano Beach, FL 33069**

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 "Tropical Force" White PVC Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **08-079**, titled "Series Tropical Force Vinyl Fixed Window", sheets 1 through 4 of 4, dated 03/24/08, prepared by EngCo, Inc., 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 Resistant

LABELING: Each unit shall bear a permanent label with the AAMA PVC Extrusion Certification Label and 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 **Manuel Perez, P.E.**



**NOA No. 08-0709.23
Expiration Date: October 30, 2013
Approval Date: October 30, 2008
Page 1**

Galaxy Window and Door, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **08-079**, titled "Series Tropical Force Vinyl Fixed Window", sheets 1 through 4 of 4, dated 03/24/08, prepared by EngCo, Inc., signed and sealed by Pedro De Figueiredo, P.E.

B. TESTS

1. Test reports on 1) Large 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 a fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5373**, dated 08/30/08, signed and sealed by Carlos S. Rionda, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2004 and 2007, prepared by EngCo, Inc., dated 04/10/08, signed and sealed by Pedro De Figueiredo, P.E.
Complies with ASTM E1300-02

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

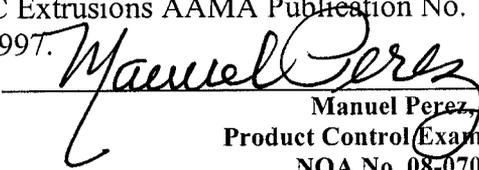
1. Notice of Acceptance No. **06-0216.06** issued to Solutia Inc. for their "**Saflex III G Clear or colored interlayer**" dated May 04, 2006, expiring on May 21, 2011.
2. Notice of Acceptance No. **08-0520.08** issued to Solutia Inc. for their "**Vanceva Composites Glass Interlayer**" dated July 17, 2008, expiring on December 11, 2013.
3. Notice of Acceptance No. **04-0709.01** issued to PH Tech, Inc., for their "**AAMA Certification Programs for Rigid PVC Extrusions**", dated September 30, 2004, expiring on September 30, 2009.

F. STATEMENTS

1. Statement letter of conformance and no financial interest, dated June 06, 2008, signed and sealed by Pedro De Figueiredo, P.E.
2. Laboratory compliance letter for Test Report no. **FTL-5373**, issued by Fenestration Testing Laboratory, Inc., dated February 12, 2008, signed and sealed by Carlos S. Rionda, P.E.

G. OTHERS

1. AAMA Certification Programs for Rigid PVC Extrusions AAMA Publication No. 109-97 and No. 303-97 revised October 01, 1997.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-0709.23
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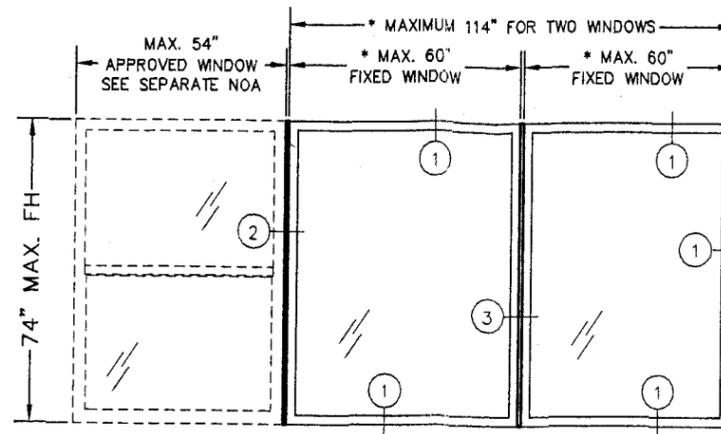
SHEET	DESCRIPTION
1	GENERAL NOTES, TYPICAL ELEVATIONS, WINDOW SPECIFICATIONS AND RATING
2	TYPICAL WINDOW SECTIONS & WINDOW ANCHORAGE
3	MULLION ANCHORAGE
4	GLAZING OPTIONS, TYPICAL COMPONENTS & BILL OF MATERIALS

GENERAL NOTES

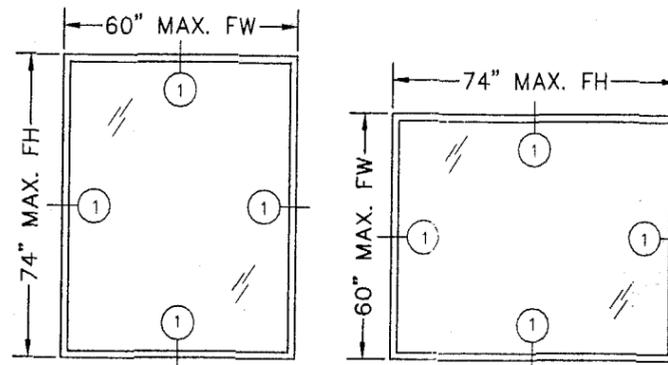
- 1- CODE: THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2007 INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2- DEFINITION: THIS PRODUCT IS A FIXED TYPE WINDOW DESIGNED, CONSTRUCTED AND TESTED TO PROVIDE PROTECTION FROM HURRICANE FORCE WINDS AND WIND BORNE DEBRIS (LARGE MISSILE) WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL.
- 3- POSTING:
 GALAXY WINDOW & DOOR
 POMPANO BEACH - FLORIDA
 MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED*
- 4- DESIGN LOADS: THE DESIGNED LOADS MUST BE CALCULATED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE CALCULATED DESIGNED PRESSURE MUST NOT EXCEED THE ALLOWABLE WINDOW PRESSURE.
- 5- MATERIAL: ALL PARTS TO BE AS NOTED ON THIS APPROVAL.
- 6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THE CURRENT SET OF DRAWINGS. INSTALLATION AND LOADS AS PER THIS APPROVAL. ANCHOR QUANTITY & SPACING MUST NOT EXCEED THE MAXIMUM LIMITS SPECIFIED BY THIS APPROVAL.
- 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 PRODUCT 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 SCREWS WITH 1.6 INCREASE FOR WIND LOAD DURATION HAVE BEEN USED.
- 9- DISSIMILAR MATERIALS: MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL, THAT COME IN CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2007 FLORIDA BUILDING CODE.

* WINDOWS W/ MULLIONS: EACH FIXED WINDOW MUST NOT EXCEED 60" AND THE SUM OF TWO CONSECUTIVE WINDOWS MUST NOT EXCEED 114"

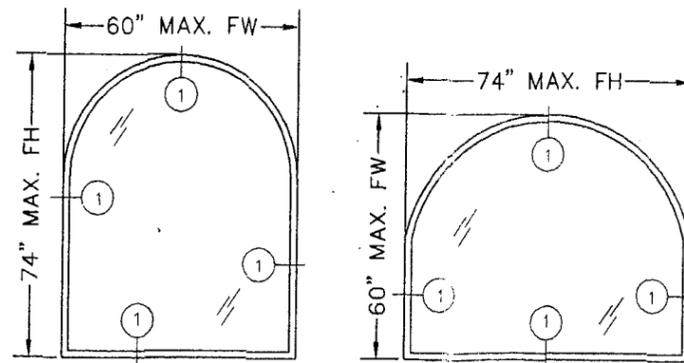
TYPICAL ELEVATIONS



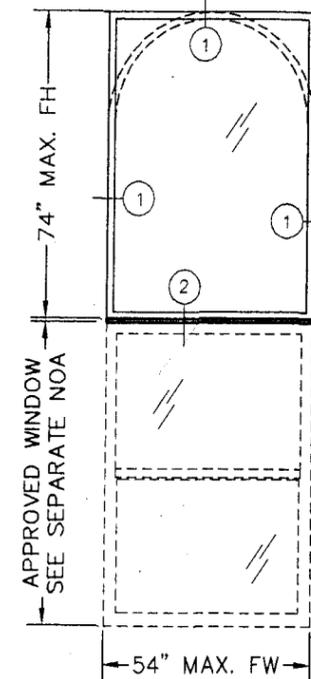
ELEVATION TYPE A
 HORIZONTAL MULTIPLE MODULES WITH FIXED WINDOWS IN COMBINATION WITH OTHER FIXED OR APPROVED WINDOW (NOT LIMITED TO 3)



ELEVATION TYPE C
 RECTANGULAR SINGLE WINDOW



ELEVATION TYPE C1
 ARCH SINGLE WINDOW



ELEVATION TYPE B
 VERTICAL MULTIPLE MODULES WITH FIXED WINDOW IN COMBINATION WITH OTHER APPROVED WINDOW

NOTE: FIXED WINDOWS CAN BE USED IN COMBINATION WITH ANOTHER FIXED WINDOW OR OPERABLE WINDOW (FIX, CAS, DH, SH, HR, DHR, AW) WITH A VALID PRODUCT APPROVAL MANUFACTURED BY GALAXY WINDOWS

WINDOW SPECIFICATIONS AND RATING

WS - MAXIMUM WINDOW SIZE
 Pd - ALLOWABLE WINDOW PRESSURE (PSF)

WS	Pd	AREA
74X60	+60.7 PSF, -70.0 PSF	30.8
74X53	+60.7 PSF, -76.8 PSF	27.2
67X60	+60.7 PSF, -76.8 PSF	27.9

TEST PROTOCOLS:
 TAS 201/94 (LARGE MISSILE), 202/94, 203/94
 ASTM E283 AT 1.57 PSF - 0.07 CFM/SQ. FT.
 ASTM E547/E331 AT 9.1 SPSF - NO WATER LEAKAGE

WHITE RIGID PVC EXTRUSIONS MANUFACTURED BY PH TECH, INC SHALL MEET ASTM D472, CLASSIFICATION (ASTM D4216) 1-10154-33-0000, 1-20131-13-0000 OR 1-40131-13 AND THE FOLLOWING PROPERTIES:
 ASTM D-635 - CLASS C1
 ASTM D-1929 - 925°F > 650
 ASTM D-2843 - 43% < 75
 ASTM E84 - 26.2 < 75
 ASTM D-638 - 498% < 10

MANUFACTURER:
GALAXY Window & Door
 1900 N ANDREWS AVE # C
 POMPANO BEACH, FL-33069
 TEL: (954) 978-2400
 FAX: (954) 978-2403

PRODUCT:
TROPICAL FORCE VINYL FIXED WINDOW

Engineering:
EngCo Inc.
 CA 8116
 6971 W. Sunrise Blvd. 104
 Plantation, FL 33313
 ENGCO@AOL.COM

(Signature)
AUG 08 2008
 Engineer Seal
 Pedro De Figueiredo, PE 52609

DRAFTING:
PK DRAFTING & MORE

MIAMI-DADE BCCD

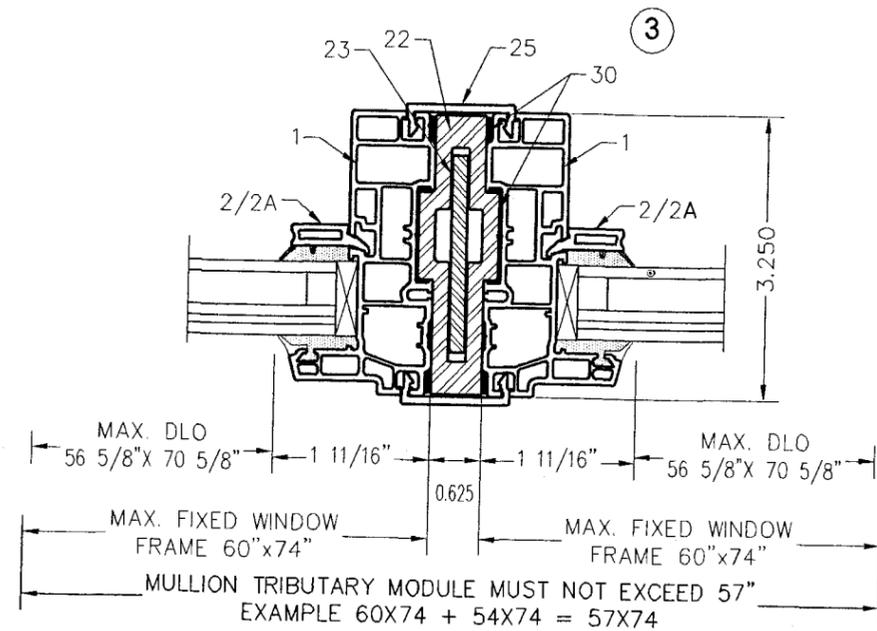
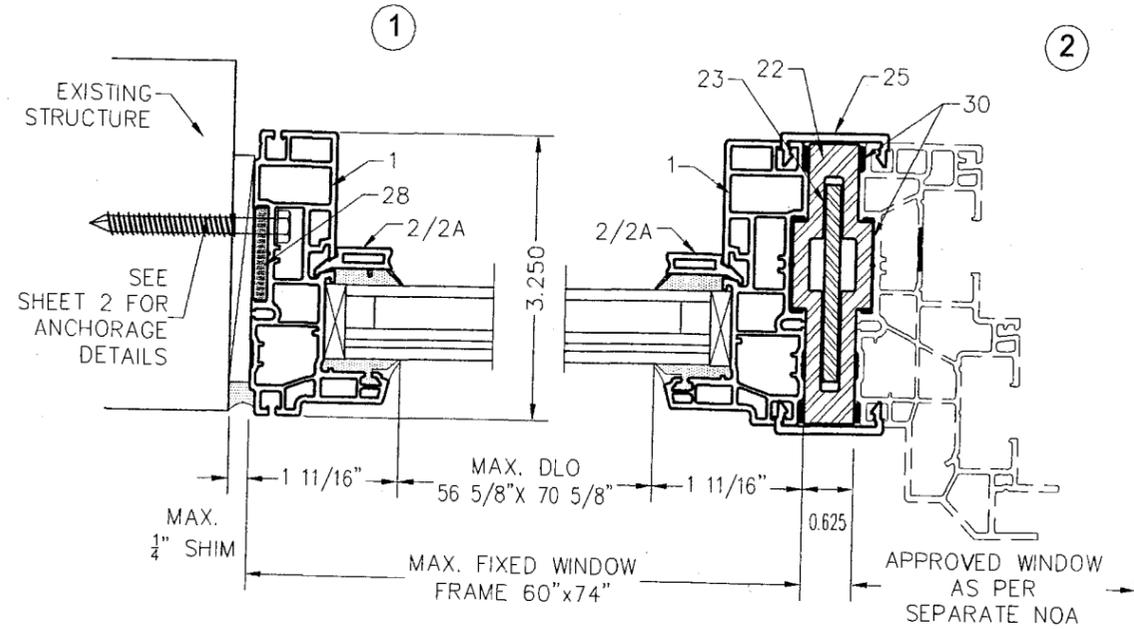
Approved as complying with the Florida Building Code
 Date 10/30/2008
 NOA# 08-0709.23
 Miami Dade Product Control Division
 By *(Signature)*

Date: 03/24/08
 Scale: NA
 Design by: PPMF

Drawing Number
08-079

Sheet
1 of 4

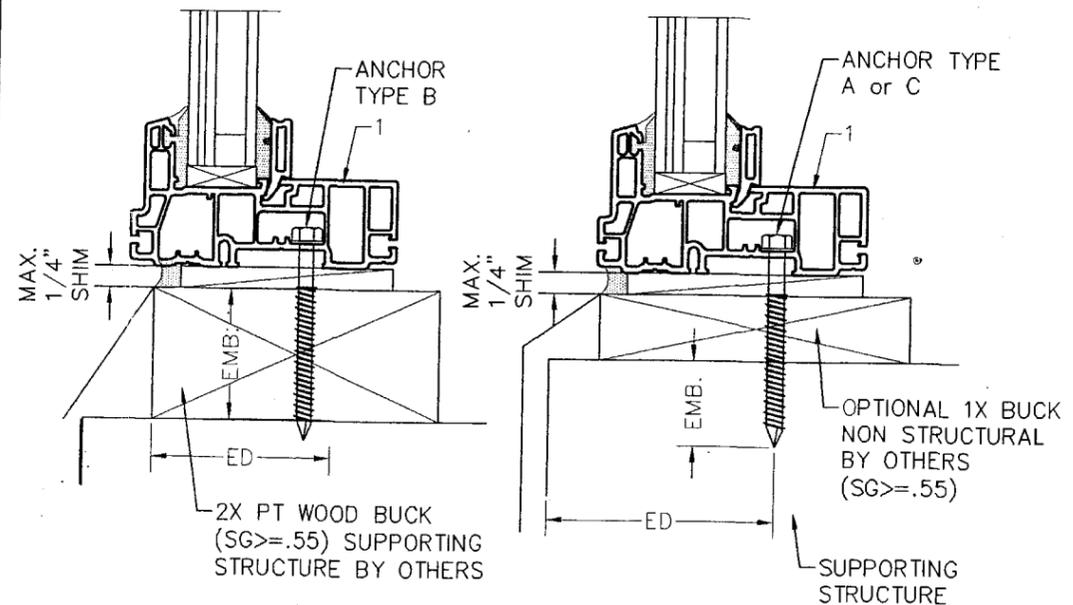
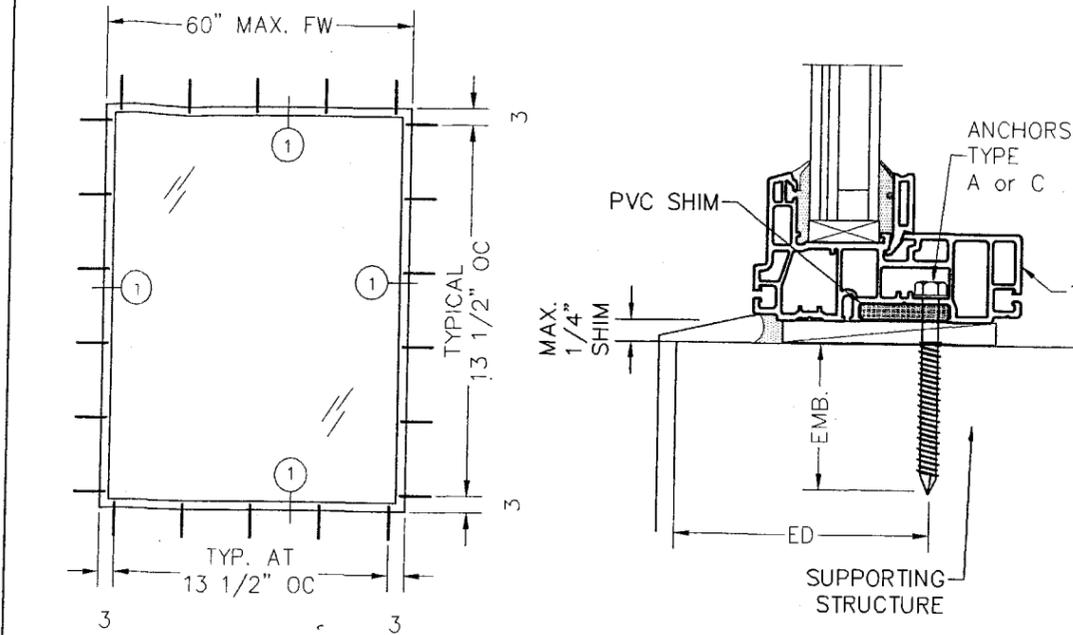
TYPICAL WINDOW SECTIONS



CONSTRUCTION

FRAME CONSTRUCTION:
FOUR 3221 VINYL EXTRUDED SHAPES WERE MITTER CUT AND JOINTS WELDED.

TYPICAL FRAMING ANCHORAGE



ANCHORS SCHEDULE

TYPE	DESCRIPTION	SUBSTRATUM	EMBEDMENT	EDGE DIST.
A	1/4" TAPCONS	2000 PSI CONC.	1.00"	1.50"
B	1/4" TAPCONS	WOOD SG >= .55	1.375"	1.00"
C	1/4"-14 GRADE 5 SDS	1/8" METAL	.125"	0.625"

Note: 1/8" Metal made of 6063-T6 aluminum or ASTM A36 Steel
Embedment is beyond wall dressing

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MIAMI-DADE BCCD:

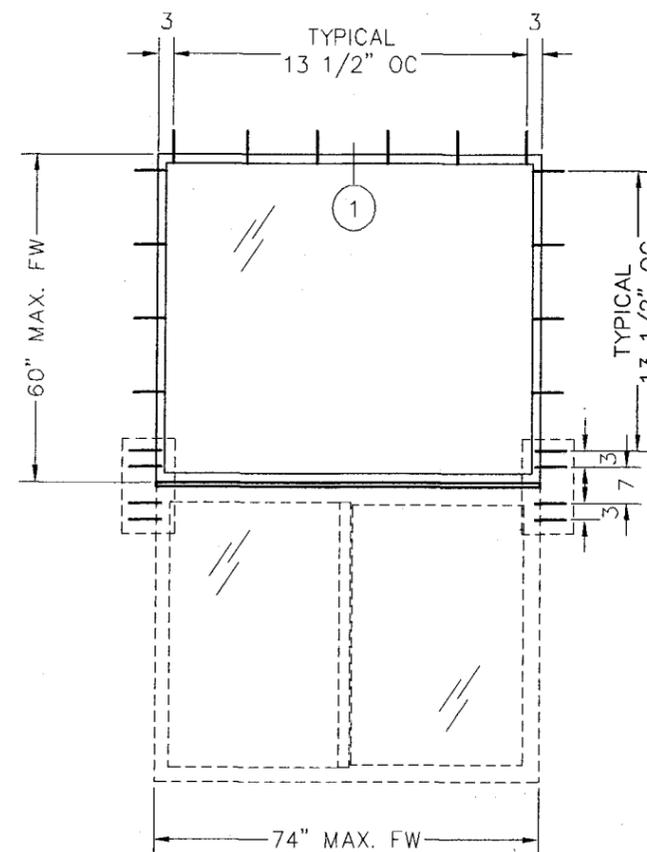
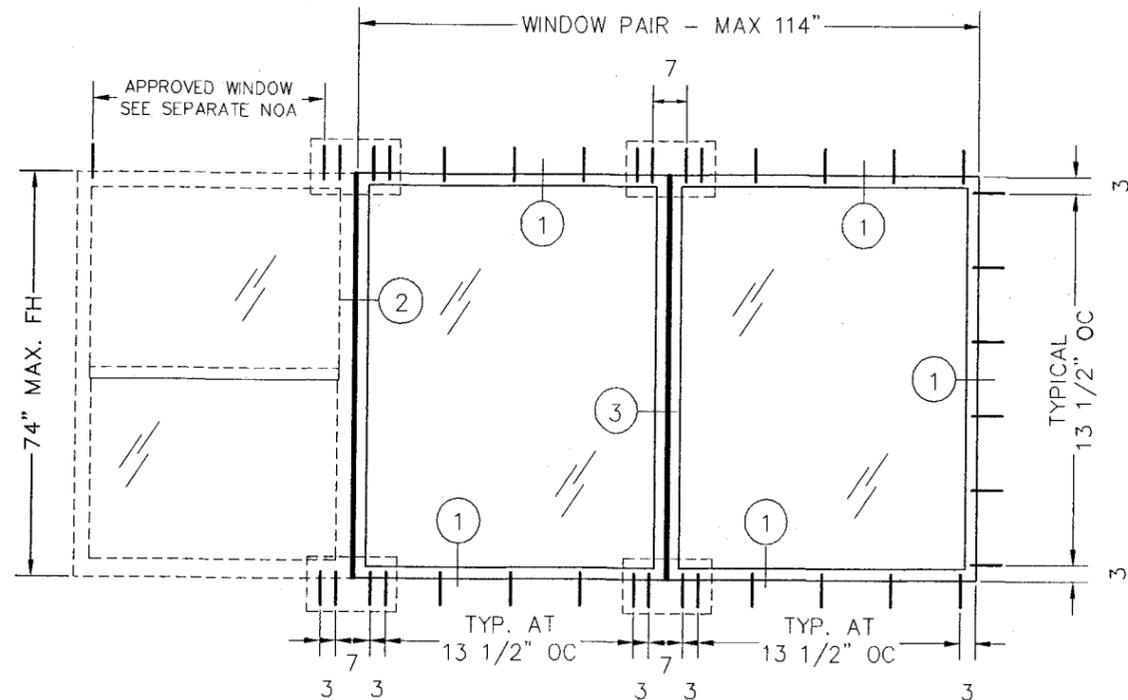
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MULLION ANCHORAGE

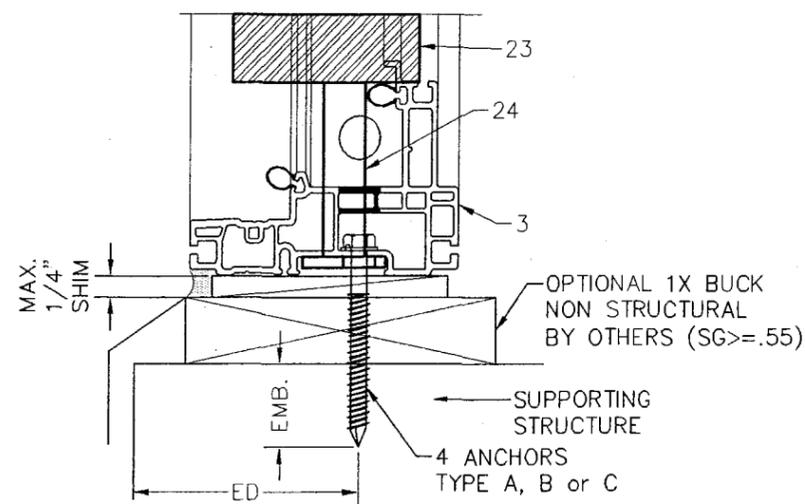
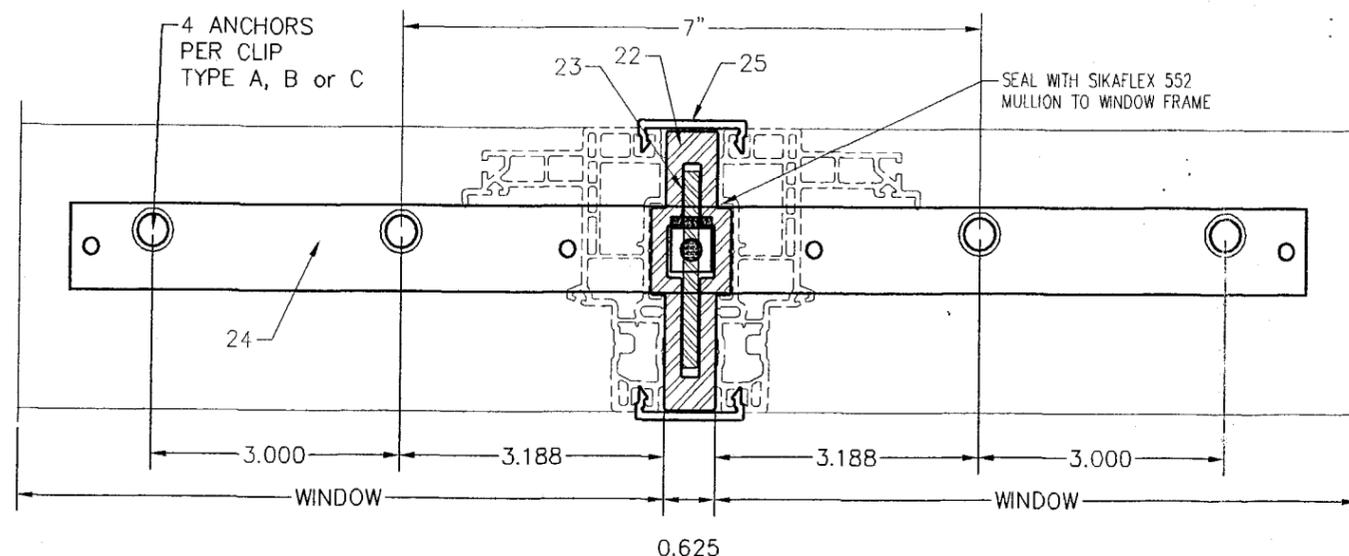


MULLIONS ARE PART OF THE WINDOW REINFORCING FRAMING AND IT CAN BE USE ONLY WITH APPROVED WINDOWS MANUFACTURED BY GALAXY WINDOW & DOOR

ANCHORS SCHEDULE

TYPE	DESCRIPTION	SUBSTRATUM	EMBEDMENT	EDGE DIST.
A	1/4" TAPCONS	2000 PSI CONC.	1.00"	1.50"
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Note: 1/8" Metal made of 6063-T6 aluminum or ASTM A36 Steel Embedment is beyond wall dressing



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MIAMI-DADE BCCD:

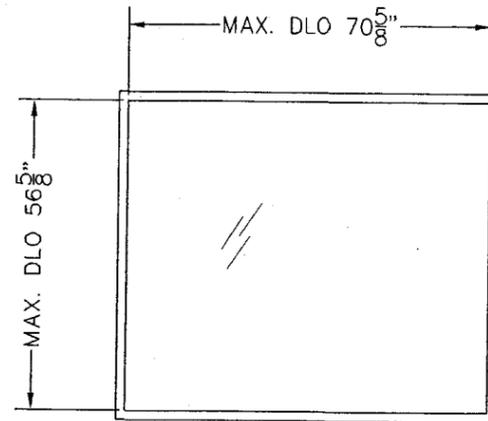
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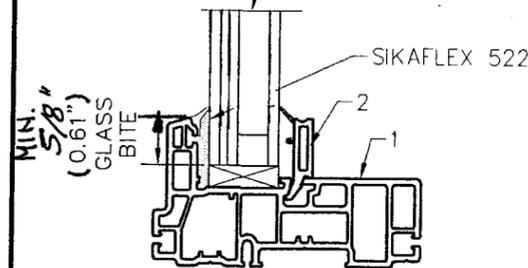
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GLAZING OPTIONS



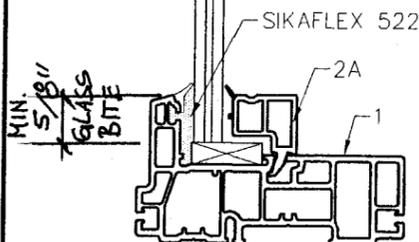
7/8" IG LAMINATED MADE OF:
3/16" ANN GLASS + .25 AIR+
3/16" ANN GLASS + INTERLAYER +
3/16" ANN GLASS



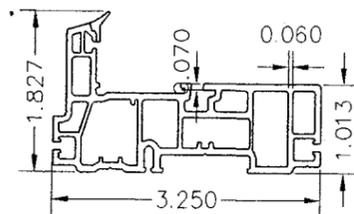
APPROVED INTERLAYERS

1-	.09 SAFLEX IIG FILM
2-	.075 VANCEVA FILM

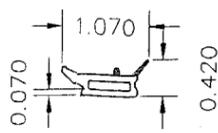
7/16" LAMINATED MADE OF:
3/16" ANN GLASS + INTERLAYER +
3/16" ANN GLASS



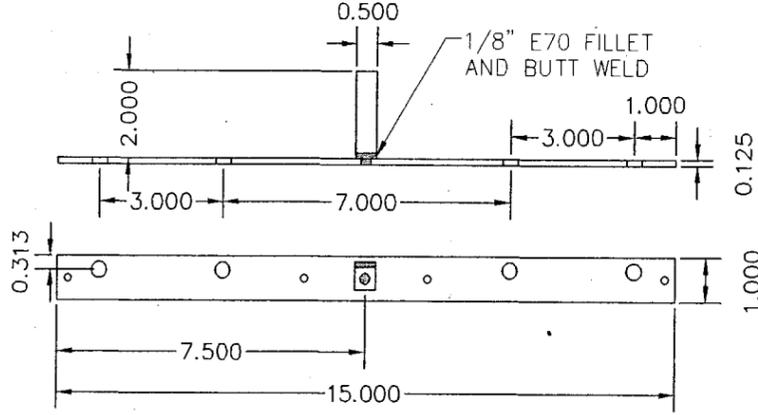
TYPICAL WINDOW COMPONENTS



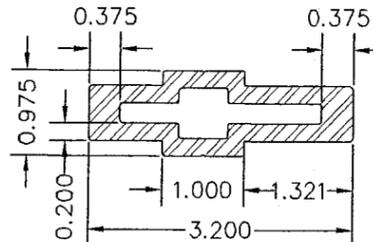
1- 3221- FIXED PERIMETER FRAMING



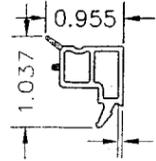
2- 5800 IG GLASS STOP



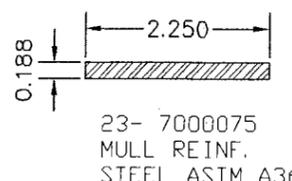
24- 9850 1/8X1X15 MULL CLIP STEEL ASTM A36



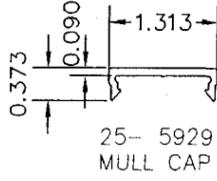
22- 8937 MULL ALUMINUM ALLOY 6005A-T61



2A- 5806 GLASS STOP



23- 7000075 MULL REINF. STEEL ASTM A36



25- 5929 MULL CAP

BILL OF MATERIAL

ID	PART #	DESCRIPTION	VENDOR
1	3221	FIXED WINDOW FRAME	PH TECH
23	7000075	3/16" BAR MULL REINF.	ALRO
22	8937	MULLION	PH TECH
25	5929	MULLION COVER	PH TECH
24	9850	STACKING PLATE	PH TECH
2A	5806	GLAZE BEAD	PH TECH
2	5800	IG GLAZE BEAD	PH TECH
	522	ADHESIVE GLAZING	SIKA
	552	ADHESIVE GLAZING (MULL ONLY)	SIKA
	9628	SETTING BLOCK	PH TECH
28	G002	2. 221X1.053X.175 PVC BLOCK	LOCAL
	9755	#8X0.5 TRUSS HEAD SCREW	PH TECH
		7/16 OR 7/8 IMPACT GLASS	VARIOUS

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