



MIAMI-DADE COUNTY
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 " Tilt White PVC Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **08-078**, titled "Tropical Force Vinyl Single Hung Tilt Window", sheets 1 through 6 of 6, 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 pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



NOA No. 08-0709.22
 Expiration Date: October 30, 2013
 Approval Date: October 30, 2008

Galaxy Window and Door, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **08-078**, titled "Tropical Force Vinyl Single Hung Tilt Window", sheets 1 through 6 of 6, dated 03/24/08, prepared by EngCo, Inc., signed and sealed by Pedro De Figueiredo, 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 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94along with marked-up drawings and installation diagram of a Vinyl Single Hung Tilt Window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5371**, dated 01/21/08, 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 04/09/08 and 08/08/08, signed and sealed by Pedro De Figueiredo, P.E.
Complies with ASTM E1300-02/03

D. QUALITY ASSURANCE

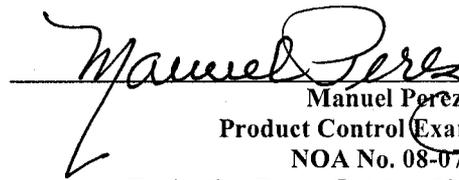
1. Miami Dade Building Code Compliance Office (BCCO).

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., 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.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-0709.22
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F. STATEMENTS (CONTINUED)

2. Laboratory compliance letter for Test Report no. **FTL-5371**, issued by Fenestration Testing Laboratory, Inc., dated January 28, 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. 08-0709.22

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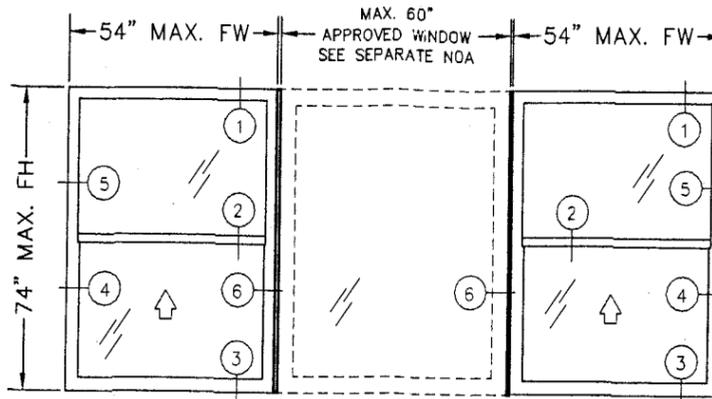
INDEX

SHEET	DESCRIPTION
1	GENERAL NOTES, TYPICAL ELEVATIONS, WINDOW SPECIFICATIONS AND RATING
2	VERTICAL & HORIZONTAL DETAILS
3	TYPICAL SINGLE HUNG ANCHORAGE, WEATHERSTRIPPING & CONSTRUCTION
4	MULLION ANCHORAGE
5	GLAZING OPTIONS & HARDWARE SCHEDULE
6	TYPICAL COMPONENTS, BILL OF MATERIALS

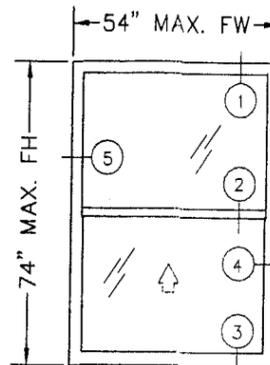
GENERAL NOTES

- 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 SINGLE HUNG TILT 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.

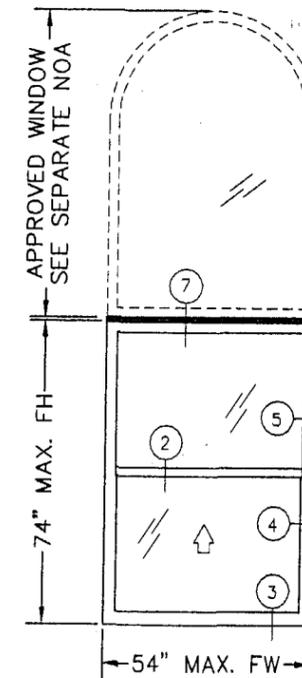


ELEVATION TYPE A
MULTIPLE MODULES SINGLE HUNG IN COMBINATION WITH OTHER SINGLE HUNG OR APPROVED WINDOW (NOT LIMITED TO 3)



ELEVATION TYPE C
SINGLE WINDOW

TYPICAL ELEVATIONS



ELEVATION TYPE B
SINGLE HUNG IN COMBINATION WITH OTHER APPROVED WINDOW

NOTE: OPERABLE 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

MAXIMUM WINDOW SIZE: **54x74**
 ALLOWABLE WINDOW PRESSURE - Pd = **+60.7 PSF, -76.8 PSF**

TEST PROTOCOLS: TAS 201/94 (LARGE MISSILE), 202/94, 203/94
 ASTM E283 AT 1.57 PSF - 0.14 CFM/SQ. FT.
 ASTM E547/E331 AT 9.1 SPSF - NO WATER LEAKAGE
 FORCE ENTRY ASTM F558-04 TYPE B GRADE 10
 ASTM E987 - DEGLAZING - 9%

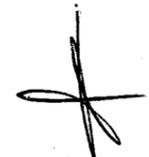
WHITE RIGID PVC EXTRUSIONS MANUFACTURED BY PH TECH, INC. SHALL MEET ASTM D472, CLASSIFICATION (ASTM D4216) 1-10154-33-0000, 1-20131-13-0000 OR 1-40131-13 AND THE FOLLOWING PROPERTIES:

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 SINGLE HUNG
TILT WINDOW

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



AUG 08 2008
 Engineer Seal
 Pedro De Figueiredo, PE 52609

DRAFTING:
PK DRAFTING & MORE

MIAMI-DADE BCCD:

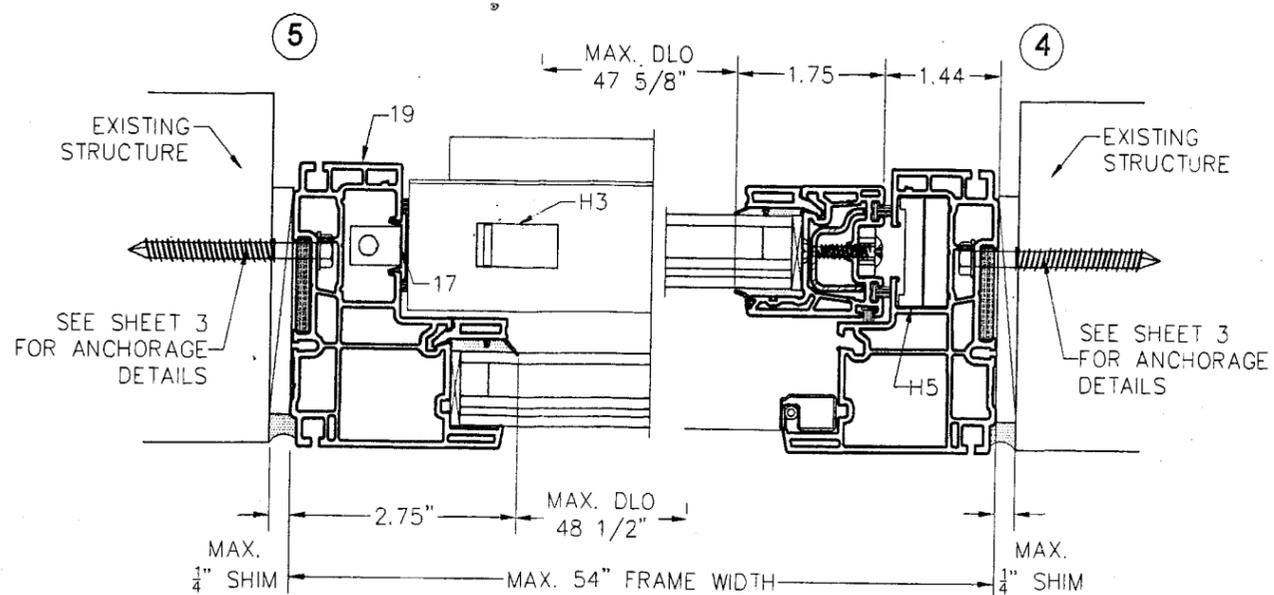
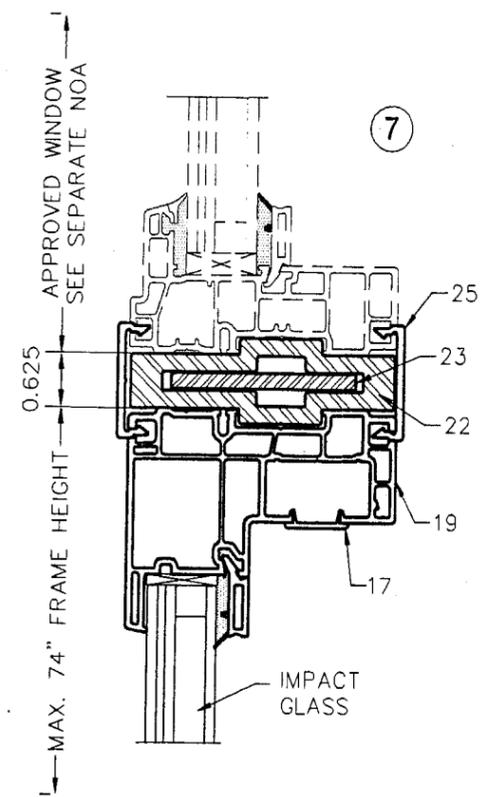
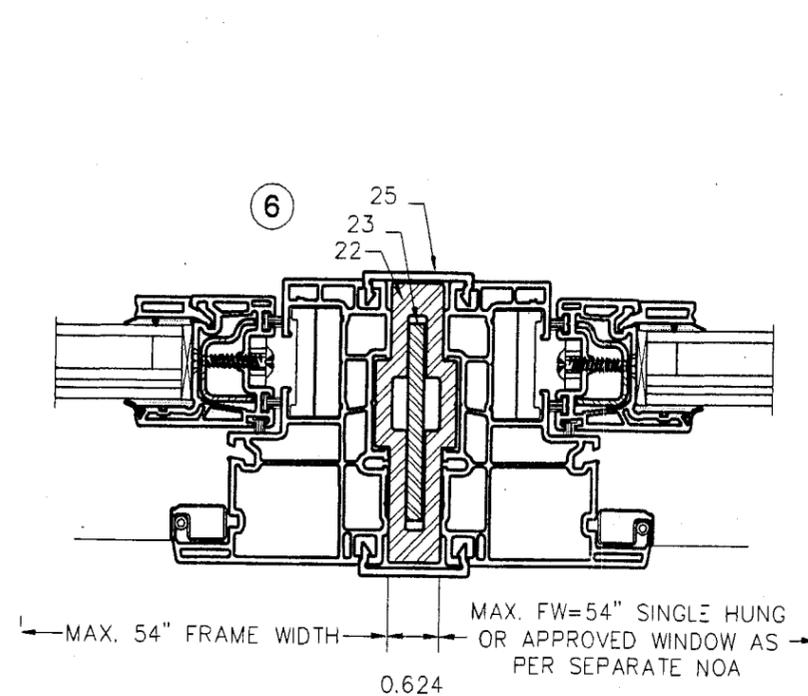
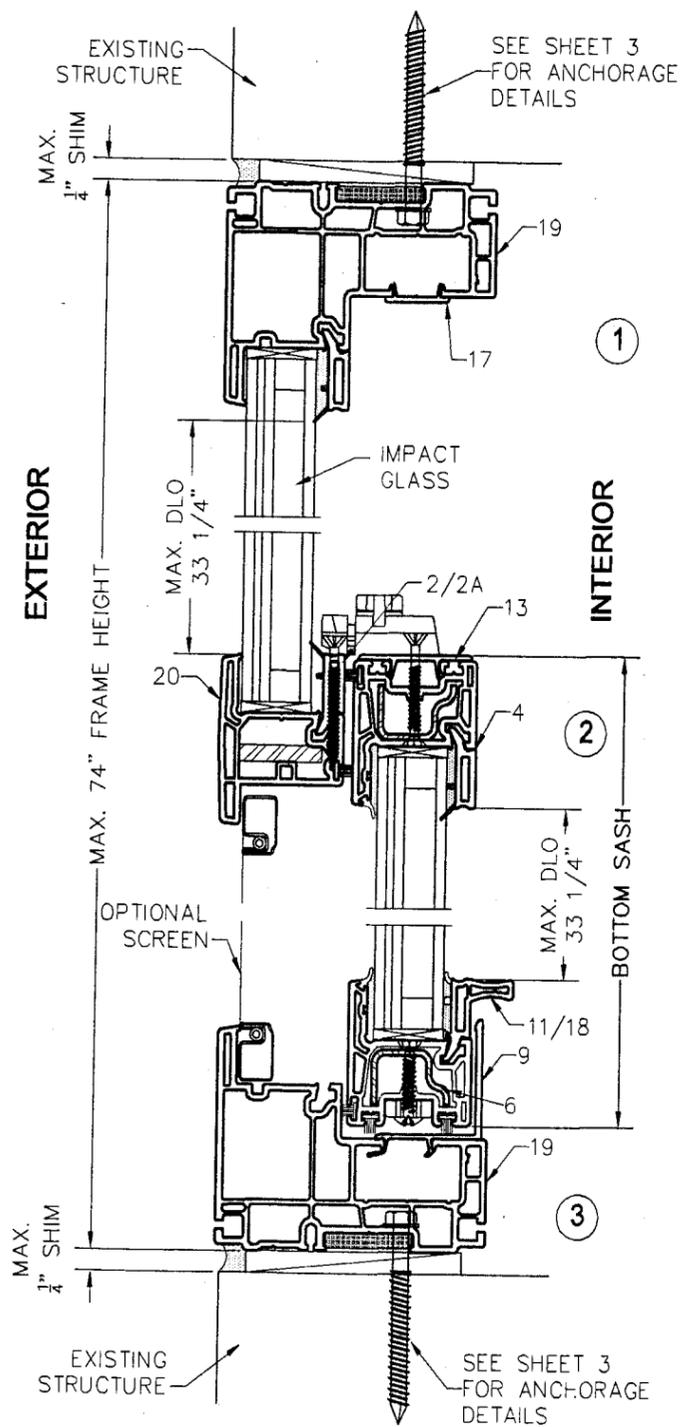
Approved as complying with the
 Florida Building Code
 Date 10/30/2008
 NOA# 08-0709.22
 Miami Dade Product Control
 Division
 By: *[Signature]*

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

Drawing Number
08-078

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TYPICAL SINGLE HUNG SECTIONS



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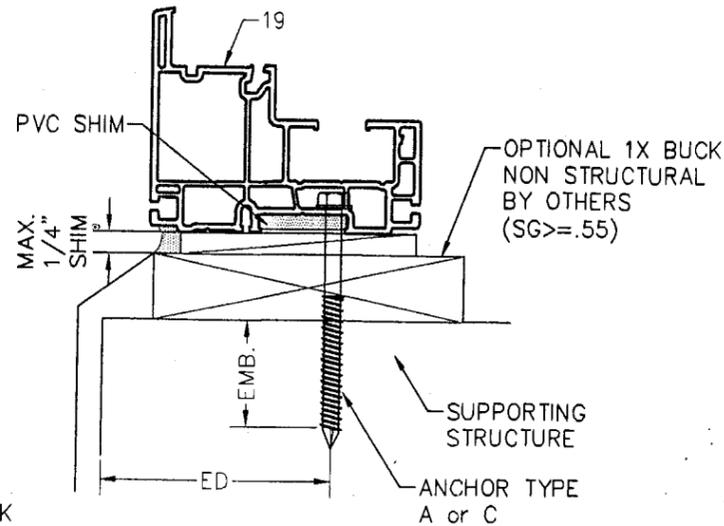
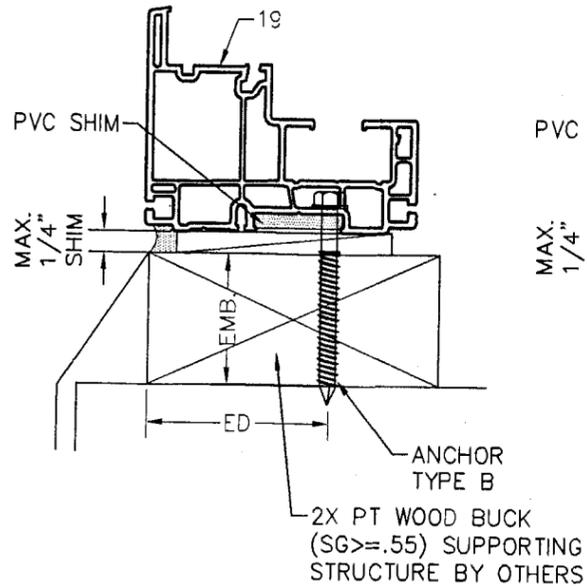
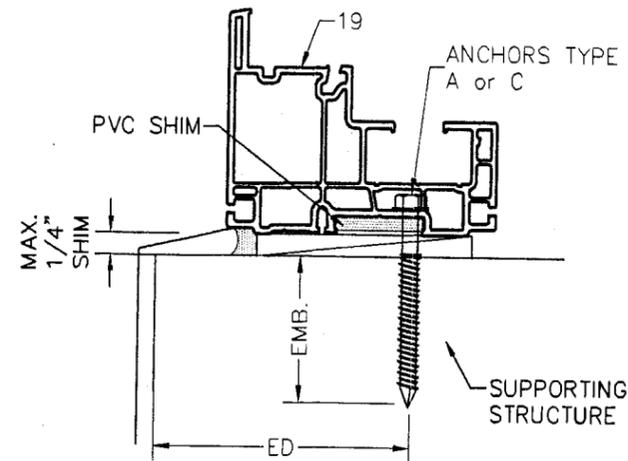
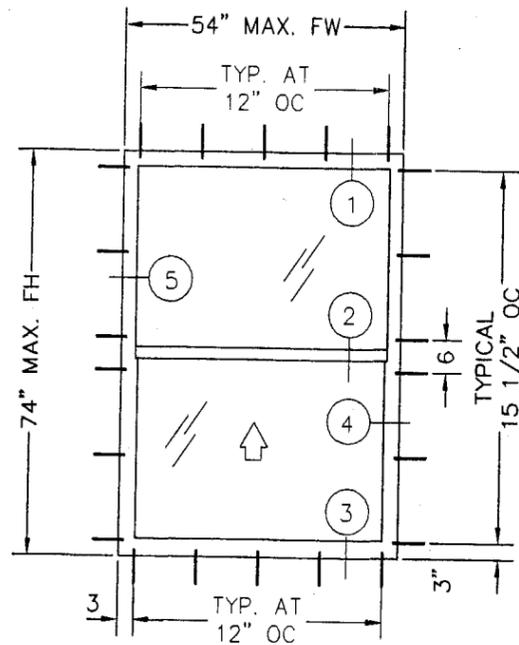
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TYPICAL FRAMING ANCHORAGE

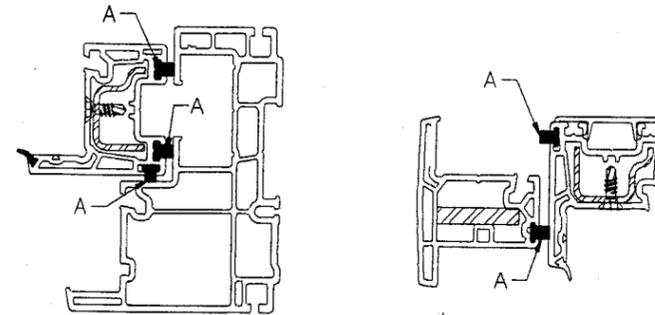


ANCHORS SCHEDULE

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

WEATHERSTRIPPING



WEATHERSTRIPPING:
A- ROW PILE WITH INTEGRAL PLASTIC FIN AT PERIMETER OF VENT AND AT FIXED MEETING RAIL

CONSTRUCTION

FRAME CONSTRUCTION:
FOUR 3420 VINYL EXTRUDED SHAPES WERE MITTER CUT AND JOINTS WELDED. THE MEETING RAIL AT EACH END WAS FASTENED WITH ONE #8X3 PHSMS WITH WASHER AND ONE #8X3 1/2" PHSMS WITH WASHER

VENT CONSTRUCTION:
FOUR 5752 VINYL EXTRUDED SHAPES WERE MITTER CUT AND JOINTS WELDED

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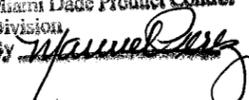
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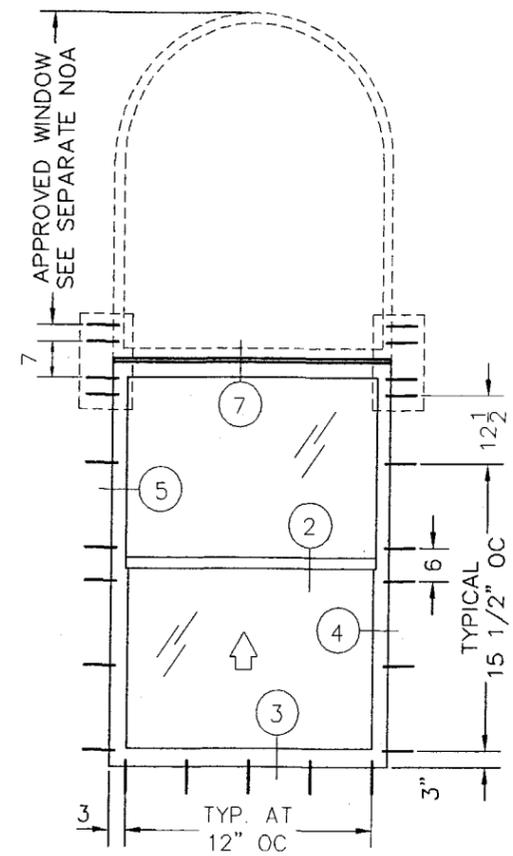
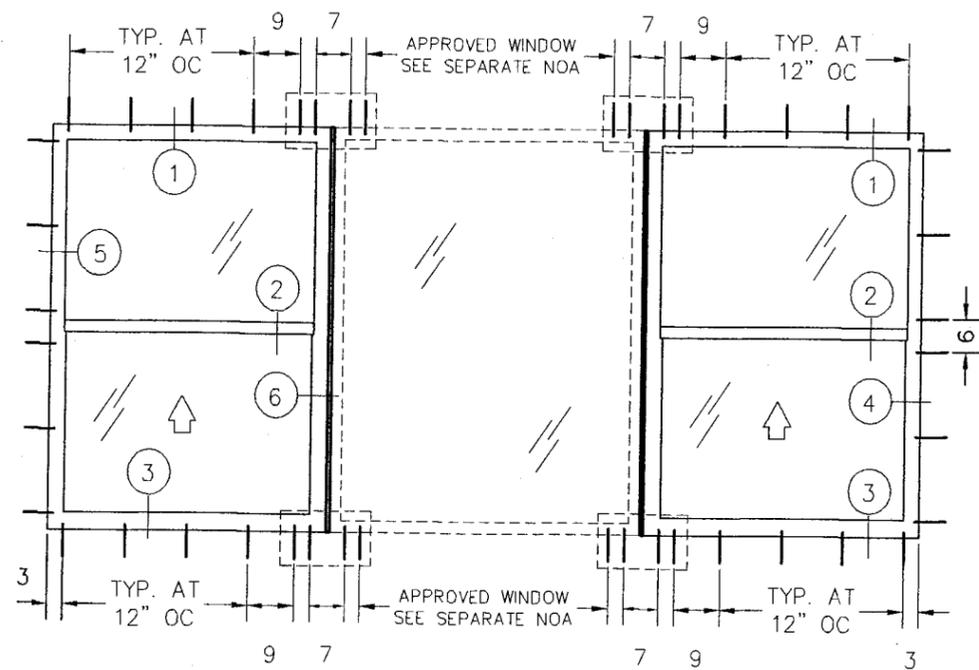
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MULLION ANCHORAGE

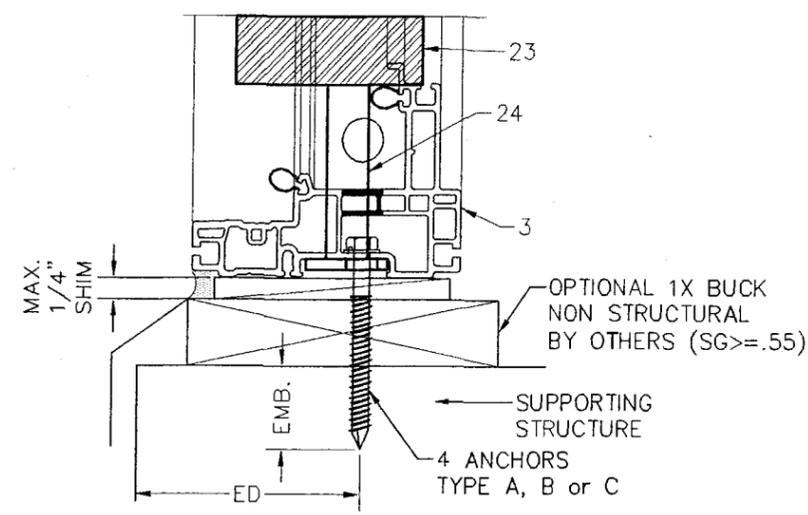
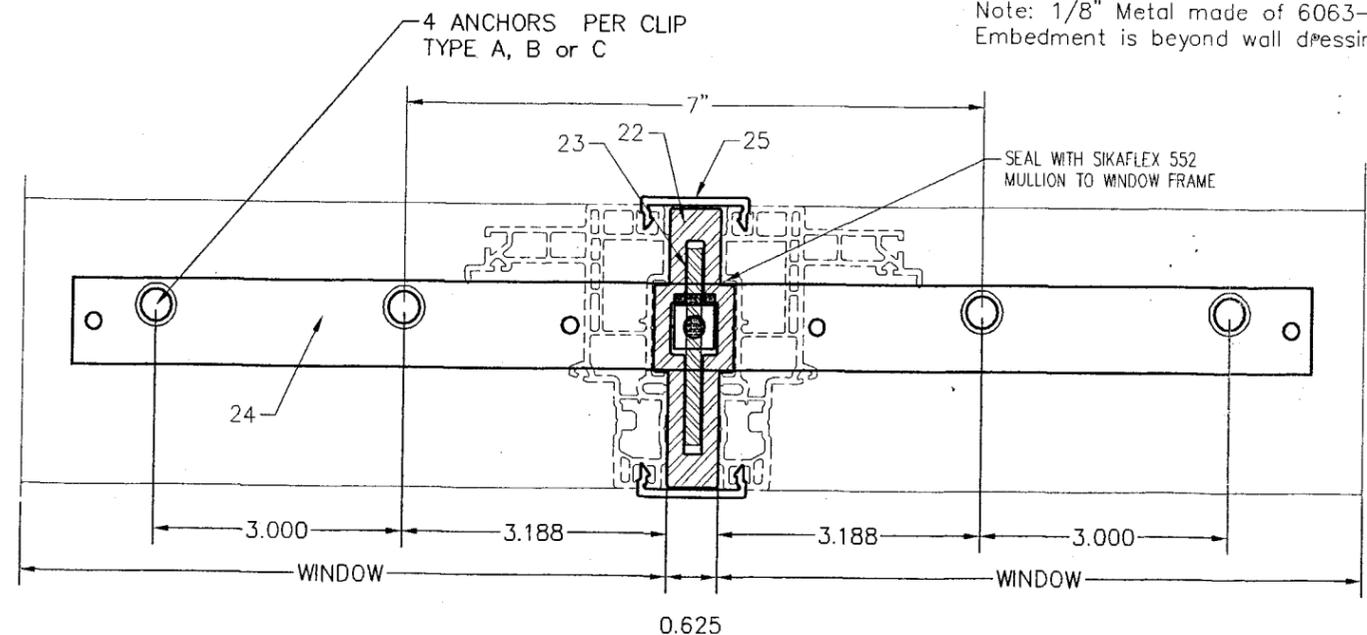
MULLIONS ARE PART OF THE WINDOW REINFORCING FRAMING AND THEY CAN BE USE ONLY WITH APPROVED WINDOWS MANUFACTURED BY GALAXY WINDOW & DOOR



ANCHORS SCHEDULE

TYPE	DESCRIPTION	SUBSTRATUM	EMBEDMENT	EDGE DIST.
A	1/4" TAPCONS	2000 PSI CONC.	1.00"	1.50"
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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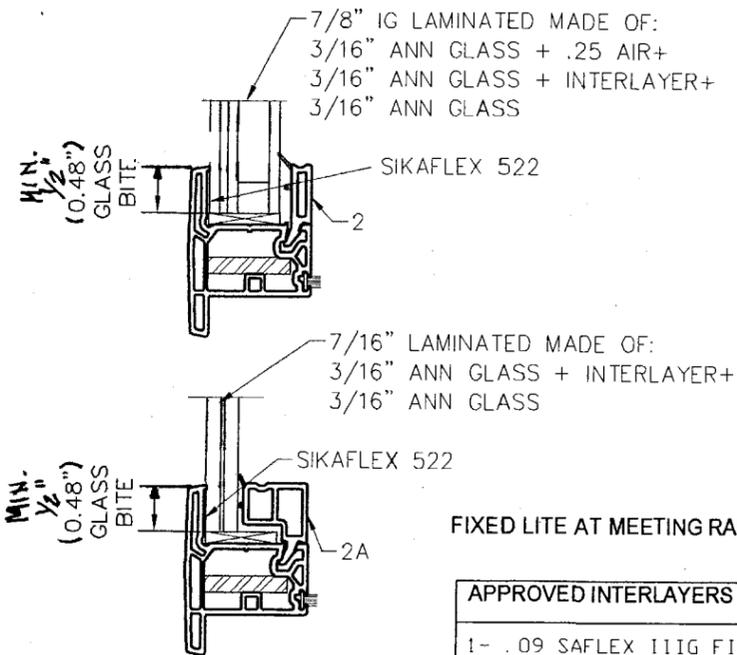
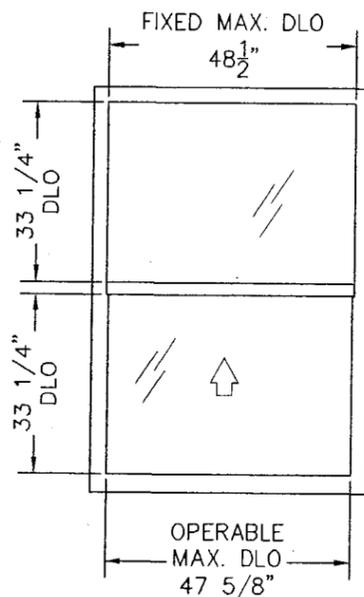
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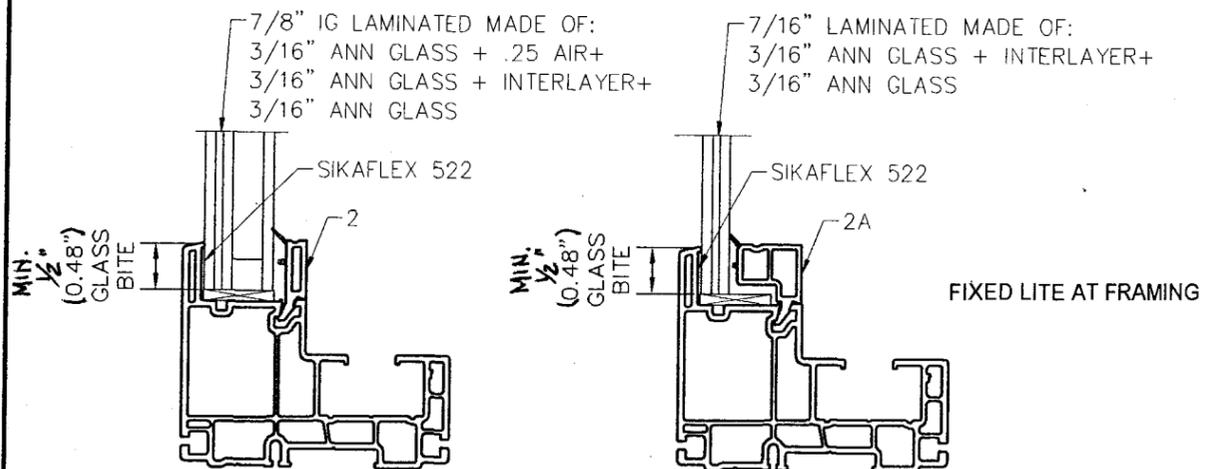
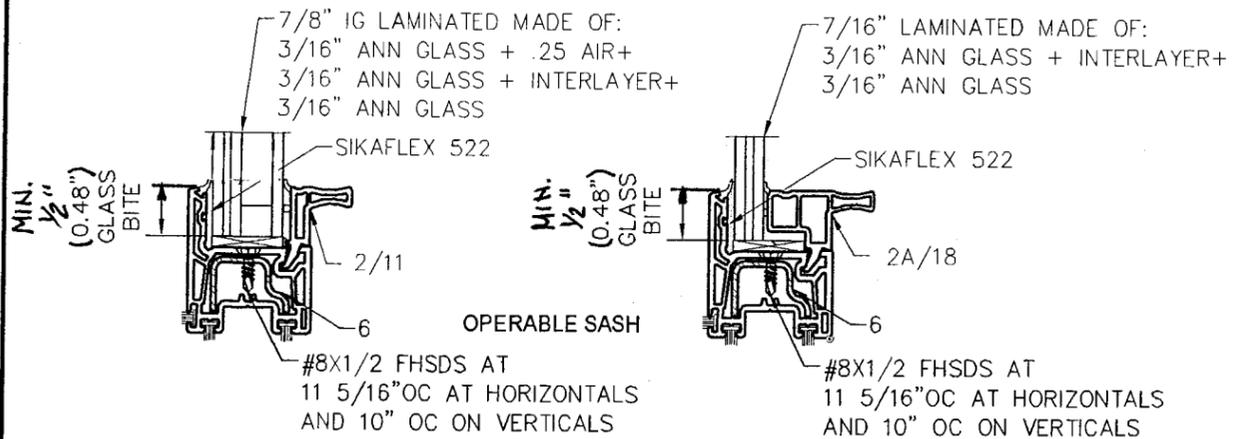
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GLAZING OPTIONS



APPROVED INTERLAYERS

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



HARDWARE SCHEDULE:

H1- (2) SURFACE MOUNT METTALIC PULL PUSH CAM LOCKS WITH PLASTIC CAP, AT VENT TOP RAIL LOCATED 12 1/2" FROM EACH END, EACH FASTENED WITH (4) #8X1 1/4" FHWS

H2- (2) SURFACE MOUNT KEEPERS, AT FIXED MEETING RAIL LOCATED 11 1/2" FROM EACH END, EACH FASTENED WITH (2) #6X1 1/2" FHSMS.

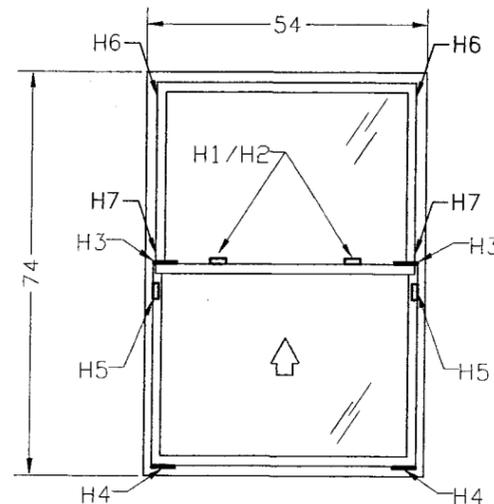
H3- (2) 4 1/2" LONG TILT LATCHES, ONE AT EACH END OF THE VNT TOP RAIL, FASTENED WITH (2) #10X3/4" PHSMS AND (1) #10X1/2" PHSMS.

H4- (2) 5 1/16" LONG METTALIC PIVOT BARS, ONE AT EACH END OF THE VENT BOTTOM RAIL, FASTENED WITH (3) #8X5/8" PHSMS.

H5- (2) CONSTANT FORCE BALANCES, BY CALDWELL, ONE AT EACH FRAME JAMB, FASTENED WITH (1) #10X3/4" PHSMS

H6- (2) 2" LONG PLASTIC VENT STOPS, ONE AT EACH UPPER FRAME CORNER.

H7- (2) METALLIC HOOK CLIPS, ONE AT EACH FRAME JAMB LOCATED 38 1/2" FROM THE BOTTOM, EACH FASTENED WITH (2) #8X2" FHSMS.



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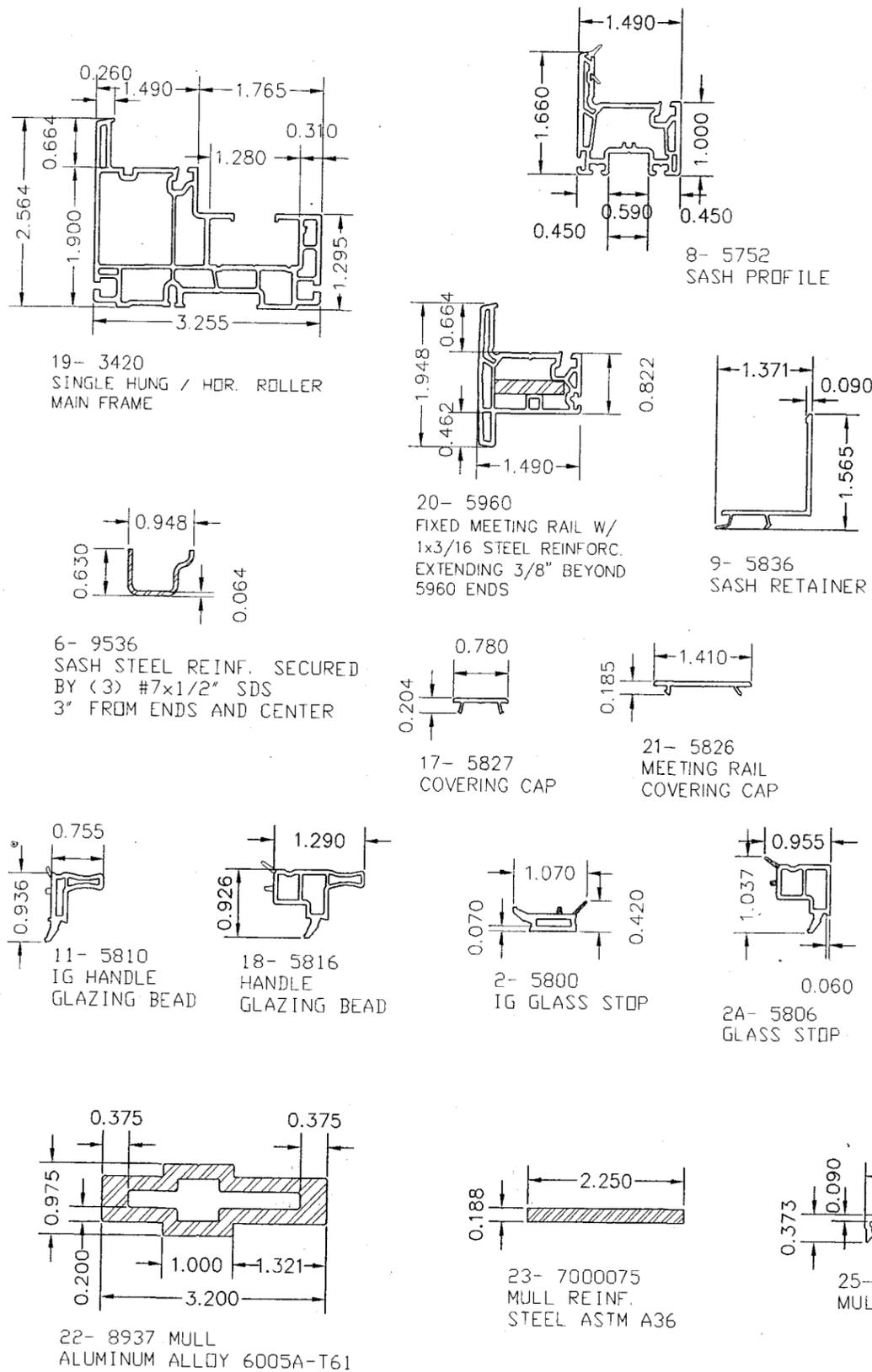
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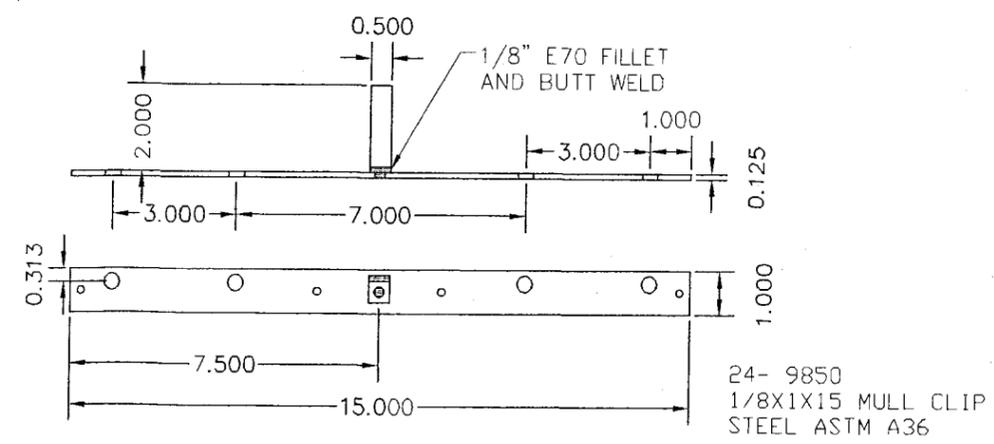
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TYPICAL WINDOW COMPONENTS



BILL OF MATERIAL

ID	PART #	DESCRIPTION	VENDOR
19	3420	SINGLE HUNG MAIN FRAME	PH TECH
8	5752	SINGLE HUNG SASH	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
6	9536	SASH REINF.	PH TECH
2A	5806	GLAZE BEAD	PH TECH
2	5800	IG GLAZE BEAD	PH TECH
11	5810	IG GLAZE BEAD HANDL	PH TECH
18	5816	GLAZE BEAD HANDLE	PH TECH
		3/16X1 STEEL BAR	ALRO
	522	ADHESIVE GLAZING	SIKA
	552	ADHESIVE GLAZING (MULL ONLY)	SIKA
20	5960	FIXED MEETING RAIL	PH TECH
9	5836	SASH RETAINER SILL	PH TECH
21	5826	MEETING RAIL COVER CAP	PH TECH
17	5827	COVERING CAP	PH TECH
	8870	WEEP HOLE COVER	PH TECH
	8872-S	TILT LATCH ASSEMBLY SPRING	PH TECH
	8872-P	TILT LATCH ASSEMBLY PIVOT BAR	PH TECH
	8872-B	TILT LATCH BUTTON	PH TECH
	70200000	LOCKING COLLAR / CAM	CALDWELL
	9628	SETTING BLOCK	PH TECH
	G002	2. 221X1.053X.175 PVC BLOCK	LOCAL
	9755	#8XD.625 TRUSS HEAD SCREW	PH TECH
		#8X3 SS PH SCREW	BROWARD BOLT
		#8X3.5 SS PH SCREW	BROWARD BOLT
		1X.188 WASHER	BROWARD BOLT
		#8X2 SS FH SCREW	BROWARD BOLT
	13884-899	HIGH PERFORMANCE SS J-HOOK	ASHLAND
	9774	WEATHERSTRIP	PH TECH
		7/16 OR 7/8 IMPACT GLASS	VARIOUS
	1-15	SCREEN FRAME	FLORIDA SCREEN
	FSC-6316-A	SCREEN MESH	FLORIDA SCREEN
	2-15	SCREEN CORNER KEY	FLORIDA SCREEN
	5959	SCREEN RETAINER	PH TECH
		SPLINE	FLORIDA SCREEN



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 SINGLE HUNG
TILT 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 BCCO:

Approved as complying with the
Florida Building Code
Date 10/30/2008
NOAA 08-0709.22
Miami Dade Product Control
Division
By *[Signature]*

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

Drawing Number
08-078

Sheet
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