



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
T (786) 315-2590 F (786) 315-2599

**NOTICE OF ACCEPTANCE (NOA)**

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

N.R. Architectural Products, Inc.  
4348 Westroads Drive  
West Palm Beach, FL 33407

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 "NRAP 2500-CO" Outswing Aluminum Casement Window – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. AD12-07, titled "NRAP Casement Out Window Series 2500-CO (L.M.I.)", sheets 1 through 9 of 9, dated 02/23/12, with revision #1 dated 02/26/12, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, 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# 09-0519.03 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 Manuel Perez, P.E.



*MP*  
*7/12/13*

NOA No. 12-0619.03  
Expiration Date: August 19, 2014  
Approval Date: July 11, 2013  
Page 1

**N.R. Architectural Products, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **AD12-07**, titled "NRAP Casement Out Window Series 2500-CO (L.M.I.)", sheets 1 through 9 of 9, dated 02/23/12, with revision#1 dated 02/26/12, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, 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 casement out- & fixed window system, prepared by Hurricane Testing Laboratory, Inc., Test Report No. **HTL 0242-0207-09**, dated 04/14/09, signed and sealed by Vinu J. Abraham, P. E. *(Submitted under previous NOA# 09-0519.03)*

**C. CALCULATIONS**

1. Anchor calculations and structural analysis, complying with FBC-2010, dated 06/04/12, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.
2. Glazing complies with ASTM E1300-04

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
2. TREMCO Part No. **TR-PS1126E** EPDM exterior glazing gasket complying with ASTM C864 Option II exceptions, ASTM D412 1600 PSI, D395B 22 HRS 158°F.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 12-0619.03

Expiration Date: August 19, 2014  
Approval Date: July 11, 2013

N.R. Architectural Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**F. STATEMENTS**

1. Statement letter of conformance, complying with FBC-2010, dated June 04, 2012, issued by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.
2. Statement letter of no financial interest, dated June 04, 2012, issued by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.
3. Laboratory compliance letter for Test Report No. **HTL 0242-0207-09**, issued by Hurricane Test Laboratory, Inc., dated April 14, 2009, signed and sealed by Vinu J. Abraham, P.E.  
*(Submitted under previous NOA# 09-0519.03)*
4. Notification of Successor Engineer for manufacturer's NOA document per **Section 61G15-27.001** of the **Florida Administrative Code**, notifying original engineer that the successor engineer is assuming full professional and legal responsibility for all engineering documents pertaining to this NOA, dated April 24, 2012, signed and sealed by Yiping Wang, P.E.

**G. OTHER**

1. Notice of Acceptance No. **09-0519.03**, issued to NR Architectural Products for their Series "NRAP 2500-CO" Outswing Aluminum Casement Window - L.M.I., approved on 08/19/09 and expiring on 08/19/14.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 12-0619/03  
Expiration Date: August 19, 2014  
Approval Date: July 11, 2013

**GENERAL NOTES: FLORIDA BUILDING CODE 2010**

1- CODE: THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN ACCORDANCE WITH THE 2010 FLORIDA BUILDING CODE INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

2- DEFINITION: THIS PRODUCT IS A CASEMENT OUT 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. INSTALLATION OF HURRICANE PROTECTION DEVICES IS NOT REQUIRED.

3- POSTING:

"NR ARCHITECTURAL PRODUCTS, INC.  
WEST PALM 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: GLAZING TO BE IMPACT LAMINATED GLASS AS SPECIFIED 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:

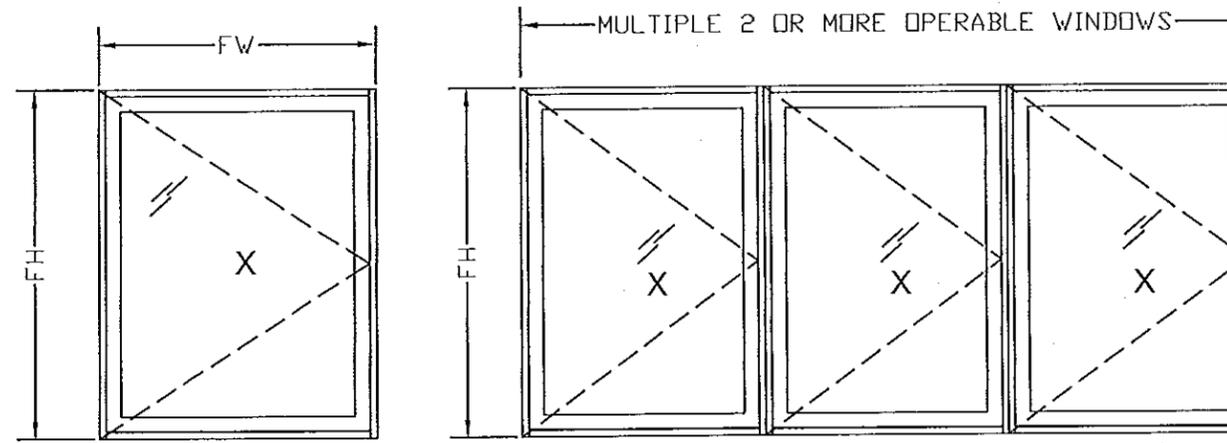
- 7.1- THE STABILITY OF THE STRUCTURE WHERE THE PRODUCT IS TO BE ATTACHED INSURING PROPER ANCHORAGE.
- 7.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.
- 7.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.

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 2010 FLORIDA BUILDING CODE.

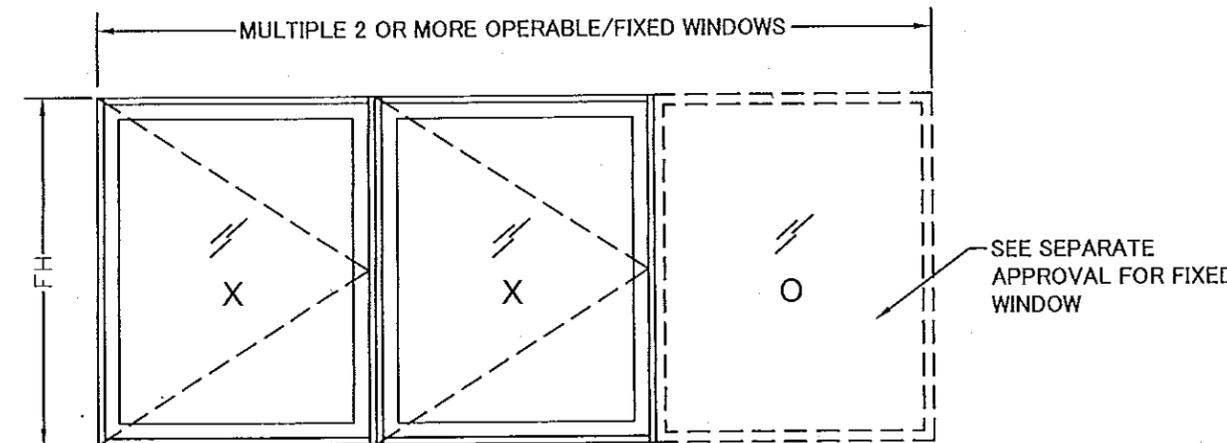
FOR ALLOWABLE SIZES AND PRESSURES REFER TO:  
SHEETS 2 AND 3

**TYPICAL ELEVATIONS  
VIEW FROM OUTSIDE**



(X) SINGLE  
CASEMENT OUT WINDOW  
SEE SHEET 2 FOR RATING

(XX, XXX, XXXn)  
MULTIPLE CASEMENT OUT WINDOWS  
SEE SHEET 3 FOR RATING



(XO, XOx, OXO, OXXOXn)  
MULTIPLE COMBINATION OF CASEMENT OUT AND FIXED WINDOWS  
SEE SHEET 3 FOR RATING

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9 of 9	HARDWARE SCHEDULE, GLAZING DETAILS & WEEP HOLES

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 12-0619.03  
Expiration Date 09.19.2014  
By *Manuel Ruiz*  
Miami Dade Product Control

YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.A.N. 28677  
*Yiping Wang*

NO.	DATE	DESCRIPTION
1	02/28/12	UPDATED FOR FBC 2010

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
8501 SW 124 AVE. STE. 205A  
MIAMI, FL 33183  
P: 905.271.0117  
F: 786.573.5063  
www.MCYEngineering.com  
MCY.Engineering@Att.net

NR ARCHITECTURAL PRODUCTS  
4348 WESTROADS DRIVE  
WEST PALM BEACH, FL 33407  
P: (561) 844 - 1121 F: (561) 844 - 6131

DATE	02-23-12
SCALE	AS NOTED
DRAWN	S.L.
PROJECT	12-026

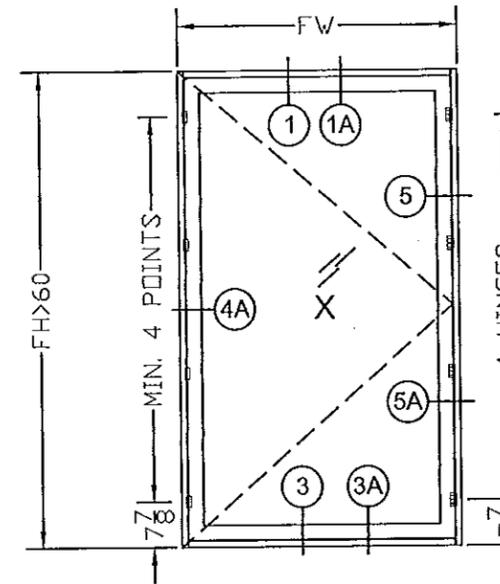
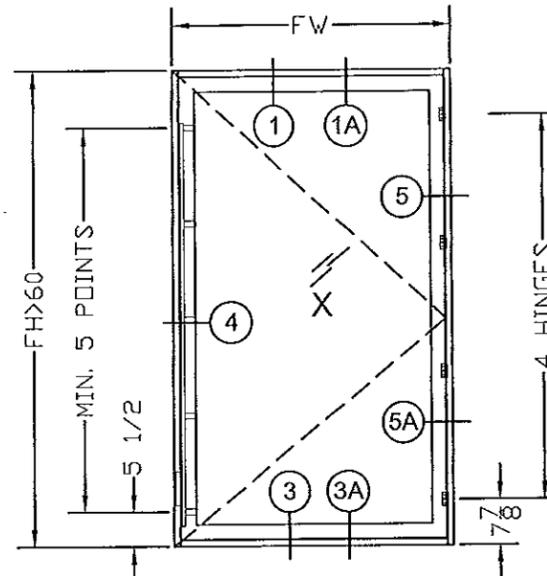
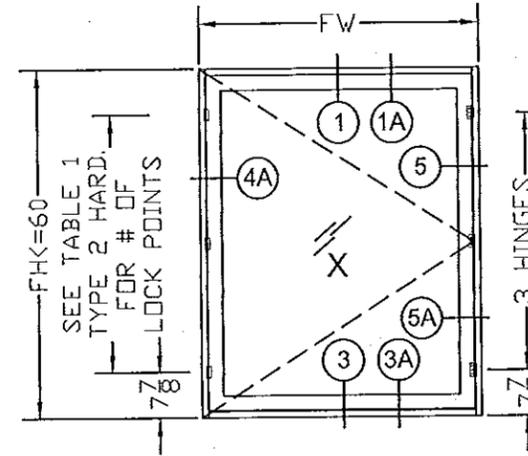
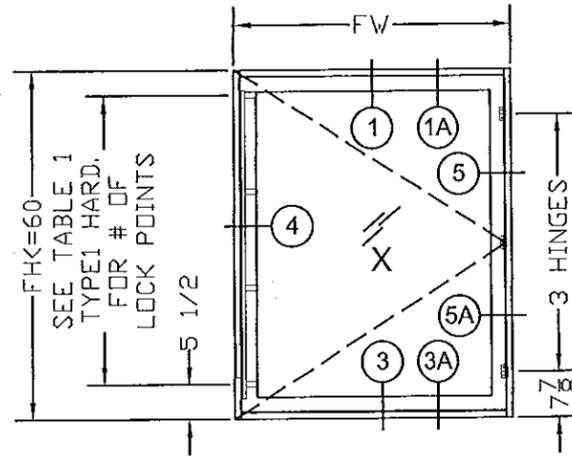
DRAWING NO.  
AD12-07

SHEET 1 of 9

**TABLE 1  
DESIGNED RATING FOR  
SINGLE CASEMENT OUT UNITS (PSF)**

MAX. FW	FRAME FH	HARDWARE TYPE 1			HARDWARE TYPE 2		
		EXT (+)	INT (-)	LOCK POINTS	EXT (+)	INT (-)	LOCK POINTS
32	38	120	120	3	120	120	3
	42	120	120	3	120	120	3
	48	120	120	4	120	120	3
	54	117	117	4	120	120	3
	60	101	101	4	120	120	3
	66	89	89	5	118	118	4
38.75	72	79	79	5	105	105	4
	38	120	120	3	120	120	3
	42	120	120	3	120	120	3
	48	120	120	4	120	120	3
	54	106	106	4	120	120	3
	60	90	90	4	120	120	3
44	66	78	78	5	86	86	4
	72	69	69	5	78	78	4
	38	105	105	3	105	105	3
	42	101	101	3	101	101	3
	48	101	101	4	101	101	3
	54	92	92	4	92	92	3
48.625	60	83	83	4	83	83	3
	66	73	73	5	75	75	4
	38	80	80	3	80	80	3
	42	77	77	3	77	77	3
54	48	75	75	4	75	75	3
	54	75	75	4	75	75	3
	60	75	75	4	75	75	3
	38	50	50	3	50	50	3
54	42	47	47	3	47	47	3
	48	45	45	4	45	45	3
	54	44	44	4	44	44	3

FW- FRAME WIDTH IN INCHES  
FH- FRAME HEIGHT IN INCHES  
PRESSURES IN PSF  
SEE ELEVATIONS ON THE RIGHT SIDE FOR HARDWARE TYPE  
DLO= FH-7.5" OR FW-7.5"



(X) SINGLE CASEMENT OUT WINDOW WITH HARDWARE TYPE 1 MULTIPoint LOCK (ADVANTAGE OR ROTO) 3-1/4" BUTT HINGE ADVANTAGE 1192

(X) SINGLE CASEMENT OUT WINDOW WITH HARDWARE TYPE 2 BRONZECRAFT CAMLOCK 3-1/4" BUTT HINGE ADVANTAGE 1192

PRODUCT REVISED as complying with the Florida Building Code  
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By *Manuel Perez*  
Miami Dade Product Control

YIPING WANG, P.E.  
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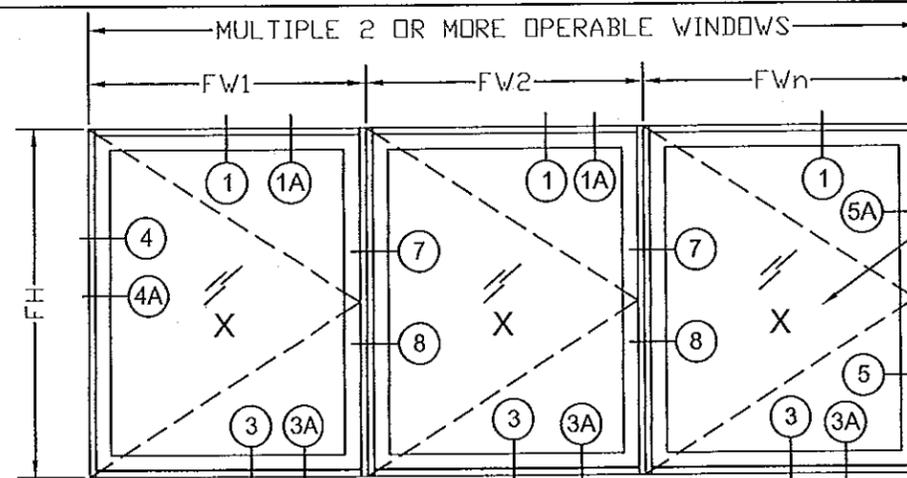
*Yiping Wang*

REVISIONS	
NO. DATE	DESCRIPTION
1 02/28/12	UPDATED FOR FBC 2010
<p><b>MCY ENGINEERING, INC.</b> GLAZING CONSULTANTS</p> <p>8501 SW 124 AVE. STE. 205A MIAMI, FL 33183</p> <p>P: 305.271.0117 F: 786.573.5063</p> <p>www.MCYEngineering.com MCY.Engineering@Att.net</p>	
<p>NRAP CASEMENT OUT WINDOW SERIES 2500-CO (L.M.I.)</p> <p>NR ARCHITECTURAL PRODUCTS</p> <p>4348 WESTROADS DRIVE WEST PALM BEACH, FL 33407</p> <p>P: (561) 844 - 1121 F: (561) 844 - 6131</p>	
DATE	02-23-12
SCALE	AS NOTED
DRAWN	S.L.
PROJECT	12-026
DRAWING NO. AD12-07	
SHEET 2 of 9	

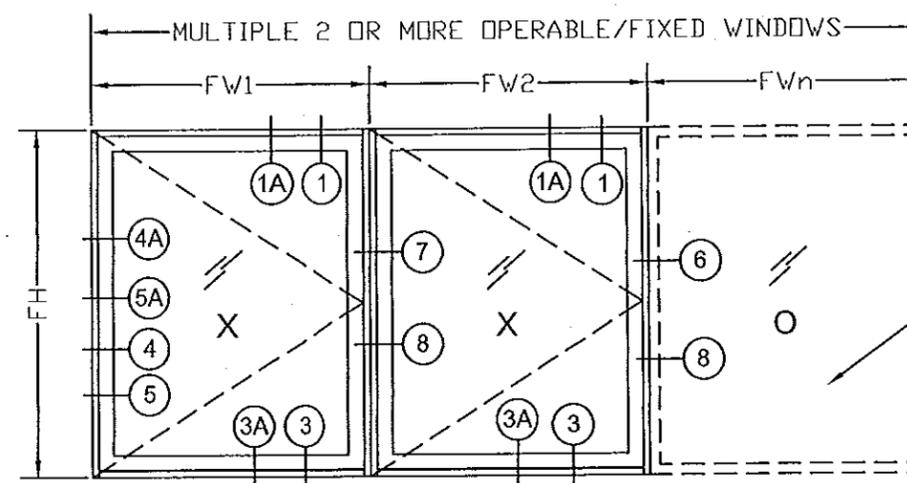
**TABLE 2**  
DESIGNED RATING FOR MULLION S ON  
MULTIPLE CASEMENT OR/AND FIXED UNITS (PSF)

TM	FH	MULL TYPE 6		MULL TYPE 7		MULL TYPE 8	
		EXT (+)	INT (-)	EXT (+)	INT (-)	EXT (+)	INT (-)
32	38	120.0	120.0	120.0	120.0	120.0	120.0
	42	120.0	120.0	120.0	120.0	120.0	120.0
	48	120.0	120.0	120.0	120.0	115.0	115.0
	54	120.0	120.0	116.5	116.5	97.0	97.0
	60	120.0	120.0	100.6	100.6	83.9	83.9
38.75	38	120.0	120.0	120.0	120.0	120.0	120.0
	42	120.0	120.0	120.0	120.0	120.0	120.0
	48	120.0	120.0	120.0	120.0	106.0	106.0
	54	120.0	120.0	105.6	105.6	88.0	88.0
	60	120.0	120.0	90.0	90.0	75.0	75.0
44	38	120.0	120.0	120.0	120.0	120.0	120.0
	42	120.0	120.0	120.0	120.0	120.0	120.0
	48	120.0	120.0	120.0	120.0	103.0	103.0
	54	120.0	120.0	100.6	100.6	83.9	83.9
	60	111.2	111.2	83.4	83.4	75.0	75.0
48.625	38	120.0	120.0	120.0	120.0	120.0	120.0
	42	120.0	120.0	120.0	120.0	120.0	120.0
	48	120.0	120.0	120.0	120.0	102.0	102.0
	54	120.0	120.0	98.1	98.1	81.8	81.8
	60	105.4	105.4	79.1	79.1	75.0	75.0
54	38	120.0	120.0	120.0	120.0	120.0	120.0
	42	120.0	120.0	120.0	120.0	120.0	120.0
	48	120.0	120.0	120.0	120.0	102.0	102.0
	54	120.0	120.0	97.2	97.2	81.0	81.0

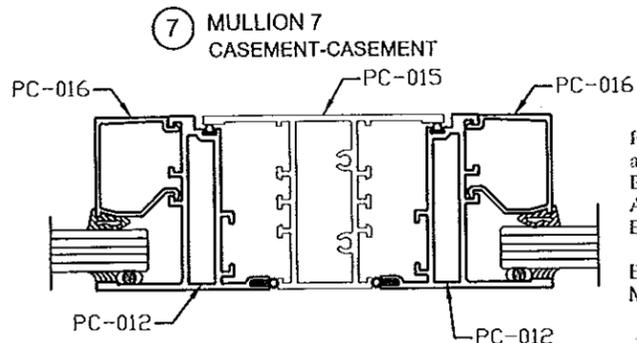
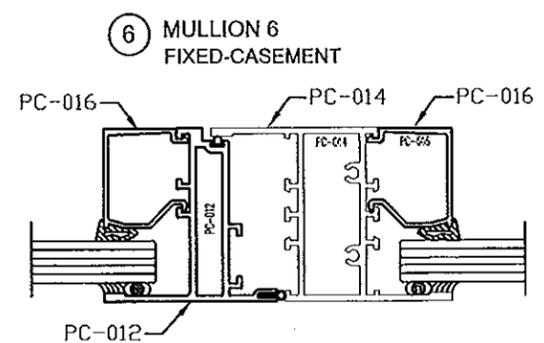
TW- MAXIMUM TRIBUTARY MODULE WIDTH IN INCHES  
FH- MAXIMUM FINISHED HEIGHT IN INCHES  
PRESSURES IN PSF  
DLO= FH-7.5" OR FW-7.5"



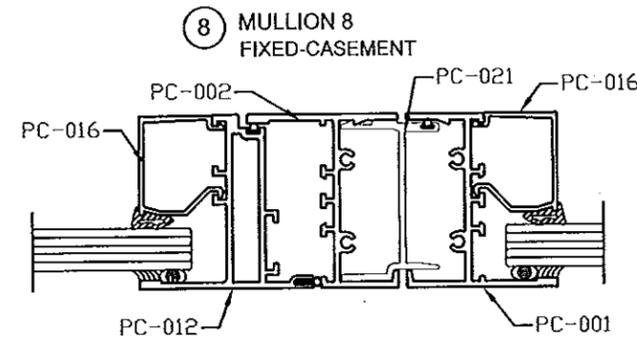
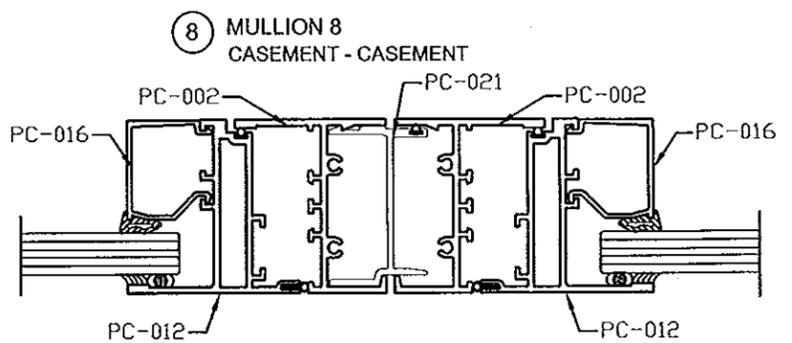
$TM = (FW1 + FW2) / 2$



$TM = (FW1 + FW2) / 2$



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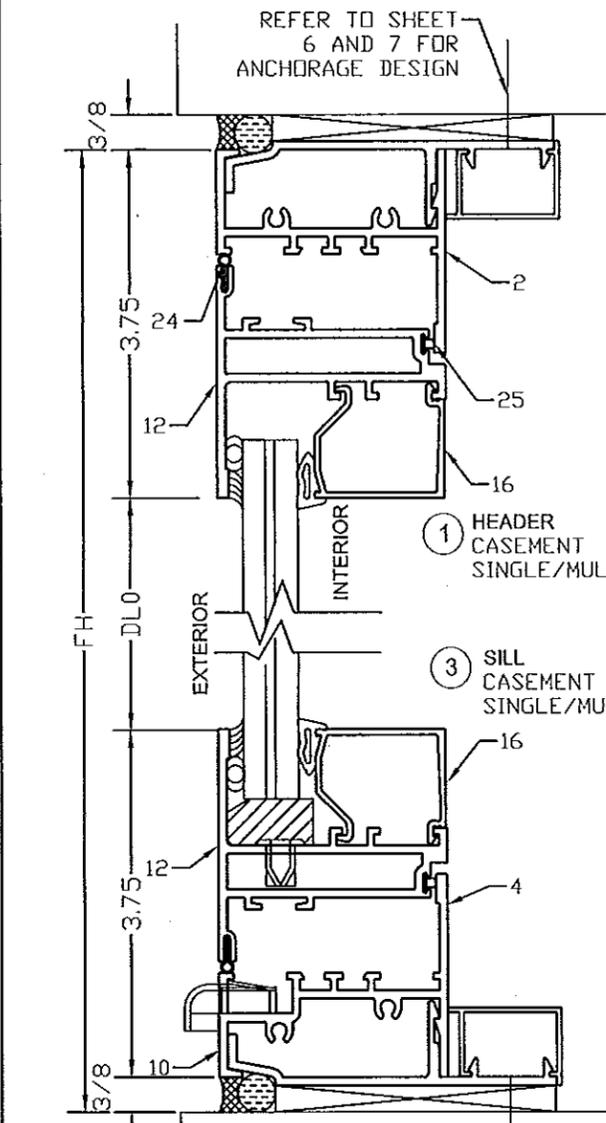
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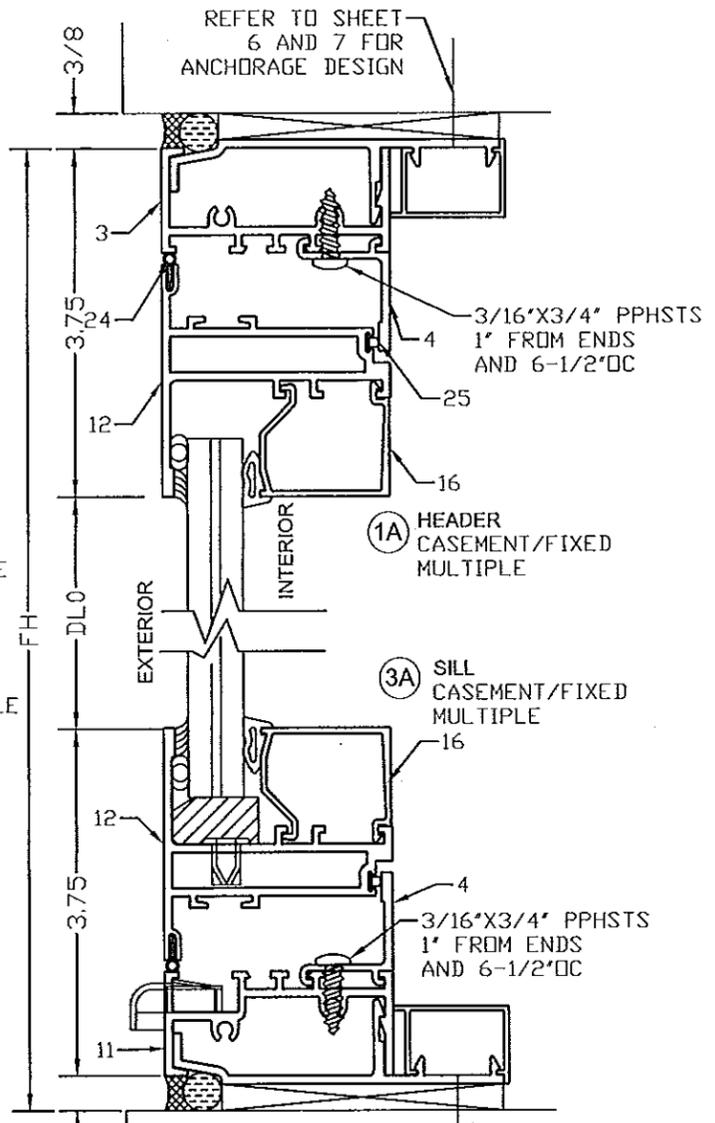
NR ARCHITECTURAL PRODUCTS  
4248 WESTROADS DRIVE  
WEST PALM BEACH, FL 33407  
P: (561) 844-1121 F: (561) 844-6131

DATE	02-23-12
SCALE	AS NOTED
DRAWN	S.L.
PROJECT	12-028
DRAWING NO.	AD12-07
SHEET 3 of 9	

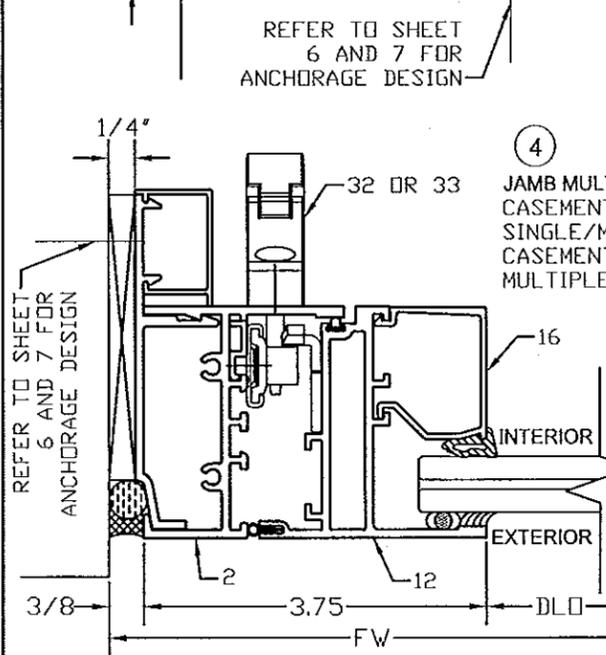
TYPICAL DETAILS



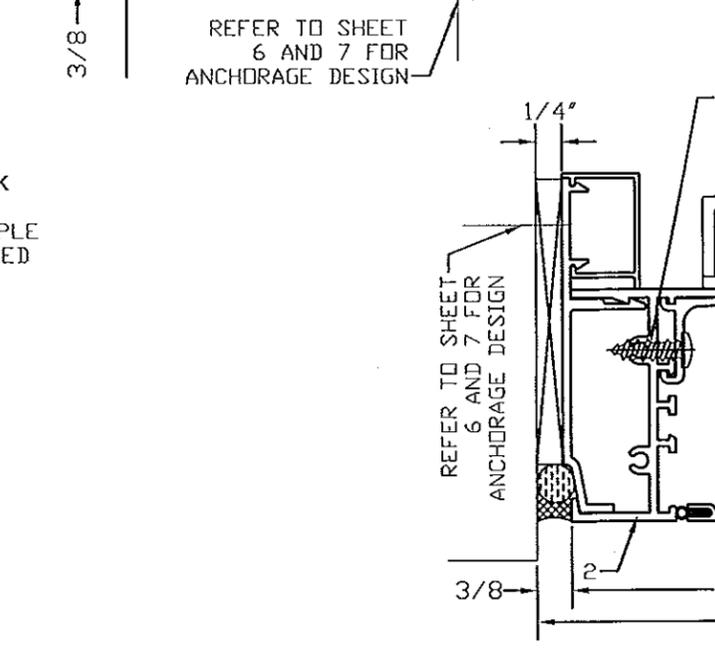
1 HEADER CASEMENT SINGLE/MULTIPLE



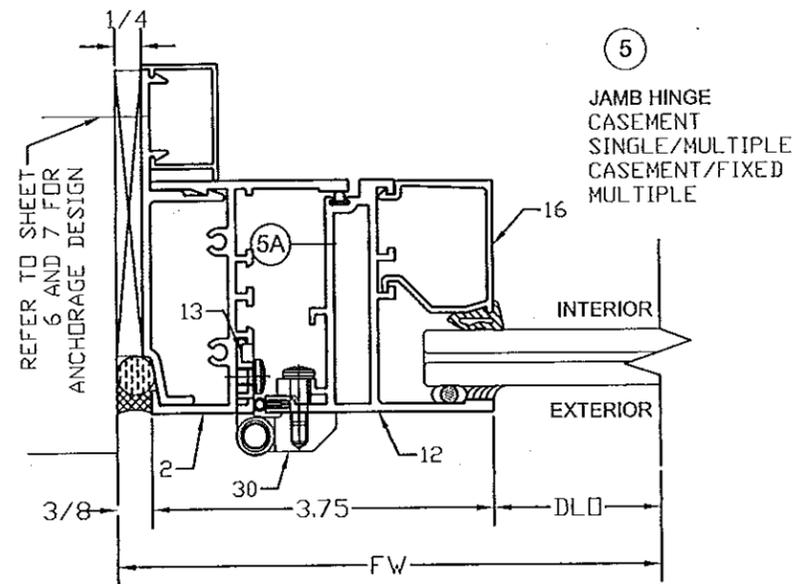
1A HEADER CASEMENT/FIXED MULTIPLE



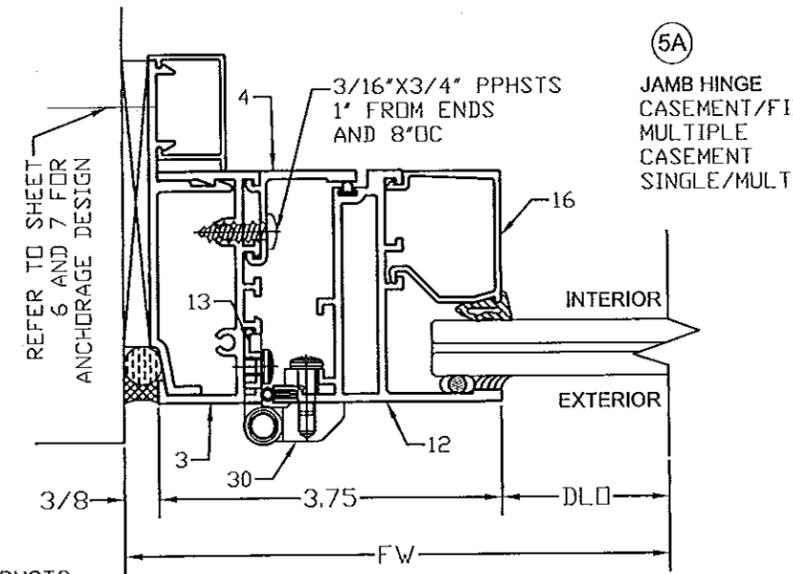
4 JAMB MULTILOCK CASEMENT SINGLE/MULTIPLE CASEMENT/FIXED MULTIPLE



4A JAMB CAM LOCK CASEMENT SINGLE/MULTIPLE CASEMENT/FIXED MULTIPLE



5 JAMB HINGE CASEMENT SINGLE/MULTIPLE CASEMENT/FIXED MULTIPLE



5A JAMB HINGE CASEMENT/FIXED MULTIPLE CASEMENT SINGLE/MULTIPLE

PRODUCT REVISED as complying with the Florida Building Code  
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 By *Manuel Perez*  
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*Yiping Wang*

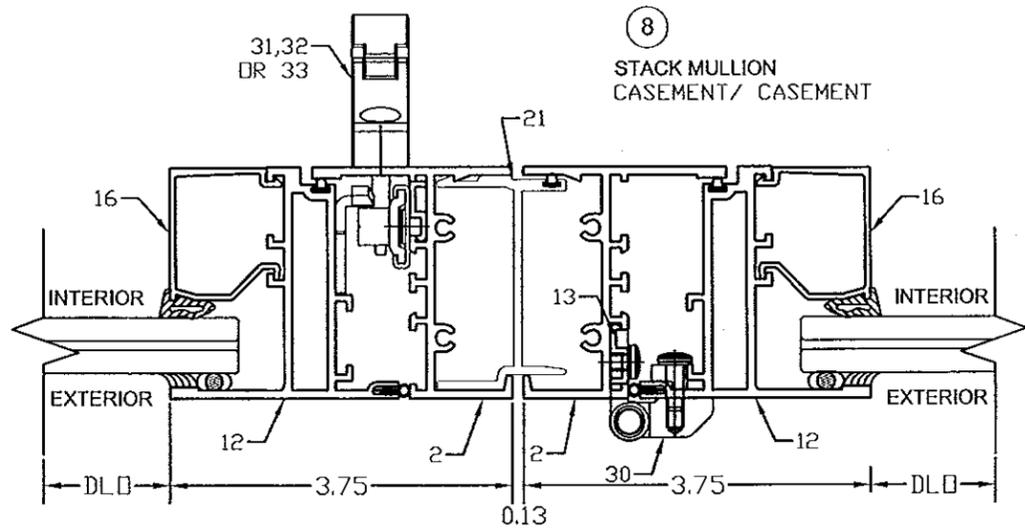
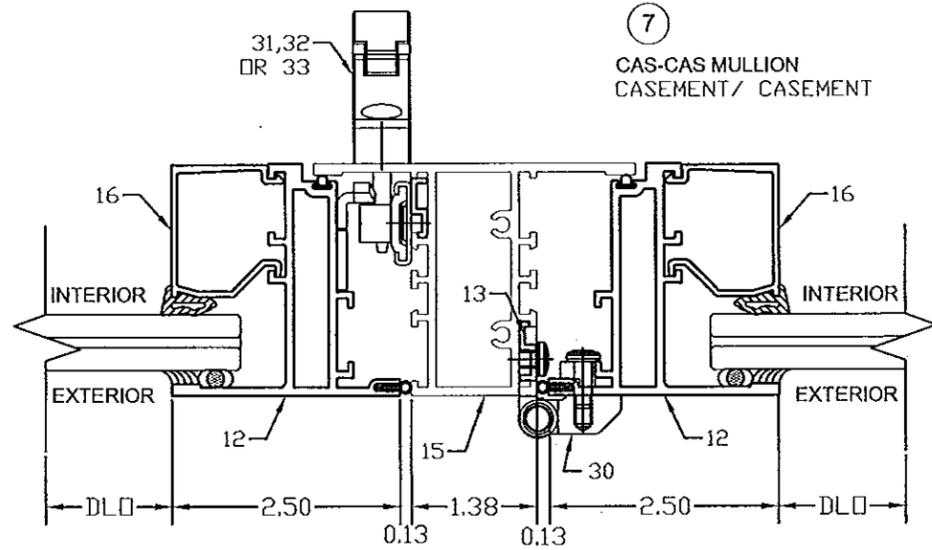
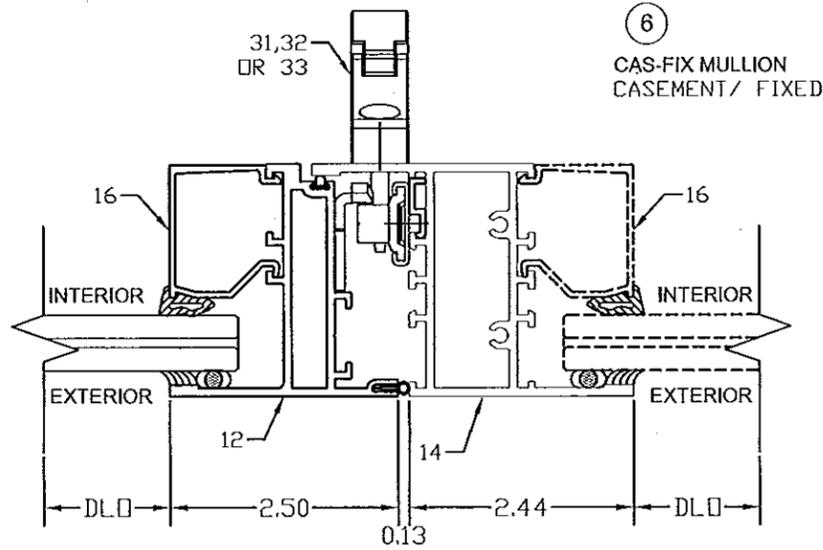
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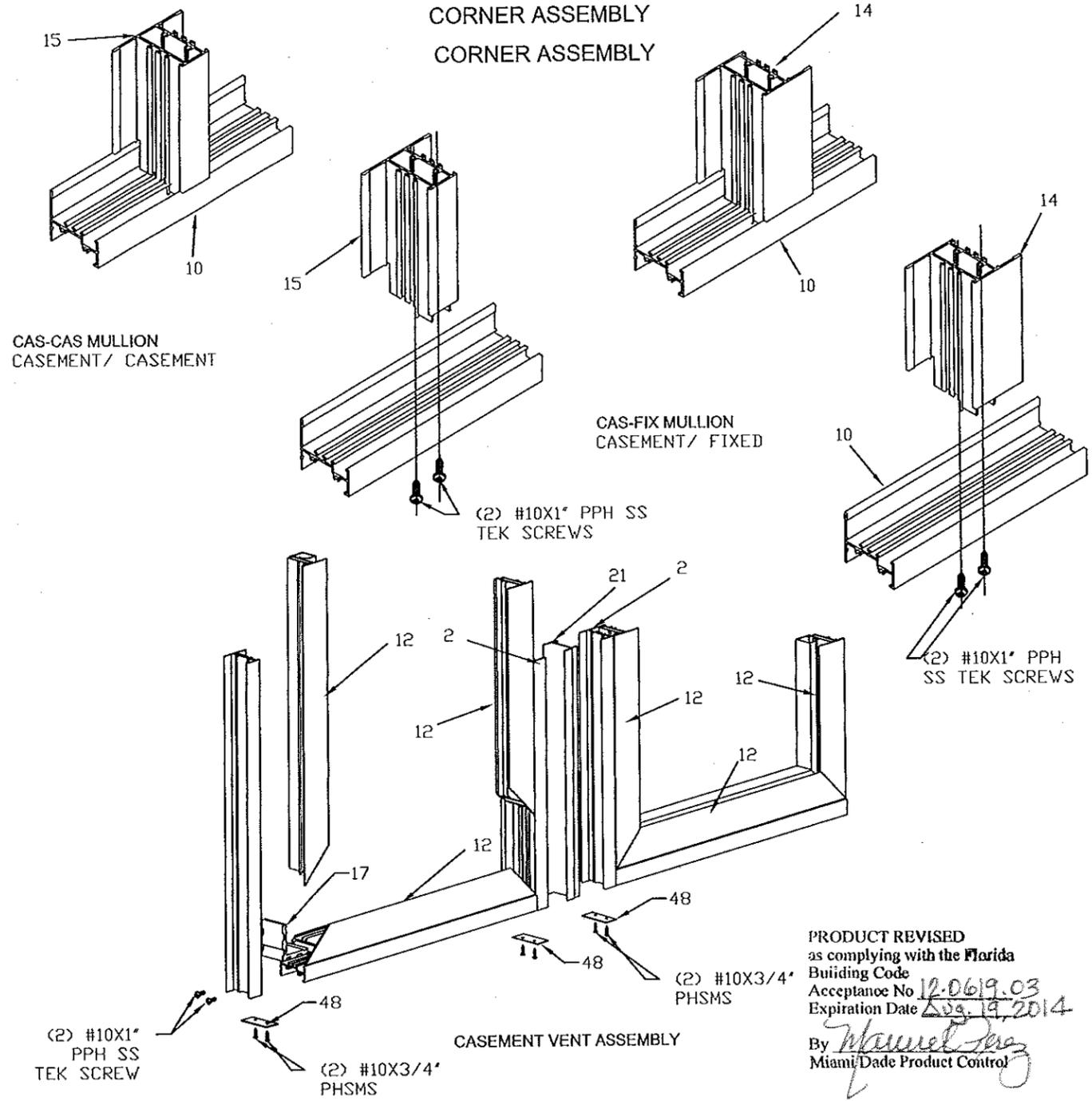
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 WEST PALM BEACH, FL 33407  
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DATE	02-23-12
SCALE	AS NOTED
DRAWN	S.L.
PROJECT	12-028
DRAWING NO.	AD12-07
SHEET	4 of 9

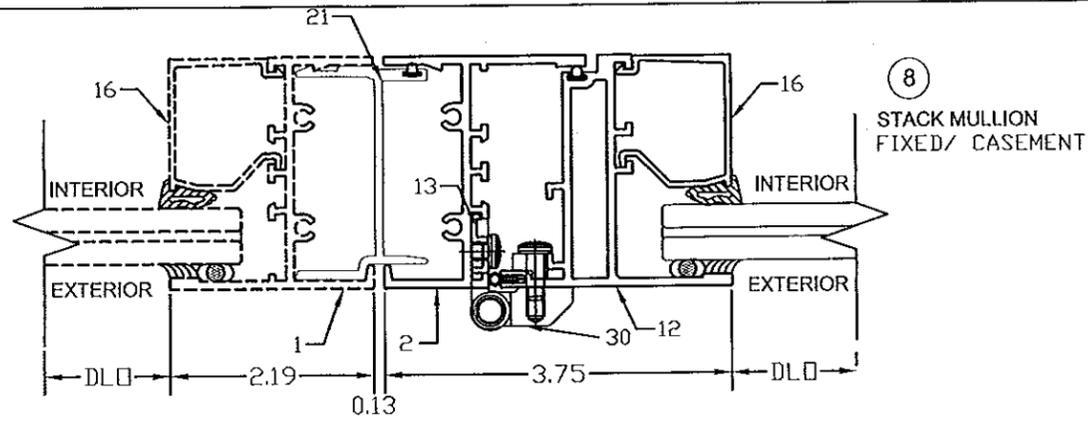
TYPICAL DETAILS



CORNER ASSEMBLY  
CORNER ASSEMBLY



PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 12-0619-03  
Expiration Date Aug 19, 2014  
By *Manuel Jara*  
Miami Dade Product Control



YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.A.N. 28677  
*Yiping Wang*

REVISIONS	
NO	DATE
1	02/28/12
DESCRIPTION UPDATED FOR FBG 2010	

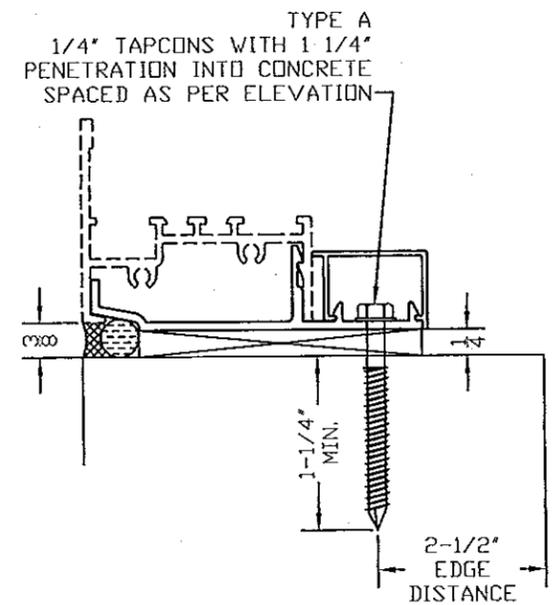
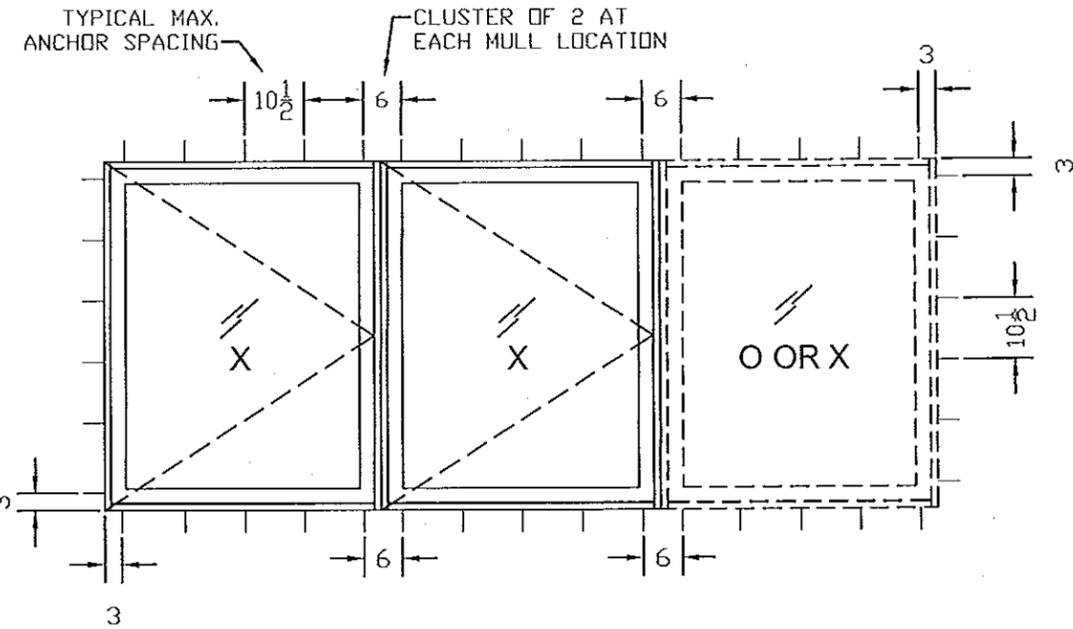
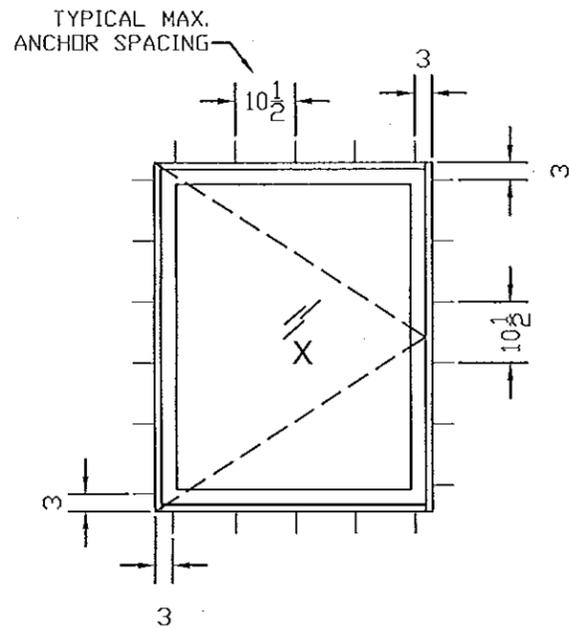
**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS

8501 SW 124 AVE. STE. 205A  
MIAMI, FL 33183  
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www.MCYEngineering.com  
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**NR ARCHITECTURAL PRODUCTS**  
NRAP CASEMENT OUT WINDOW SERIES 2500-CO (L.M.I.)

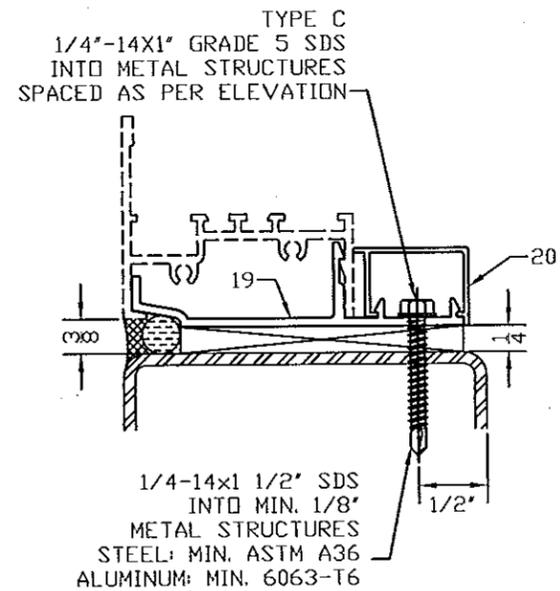
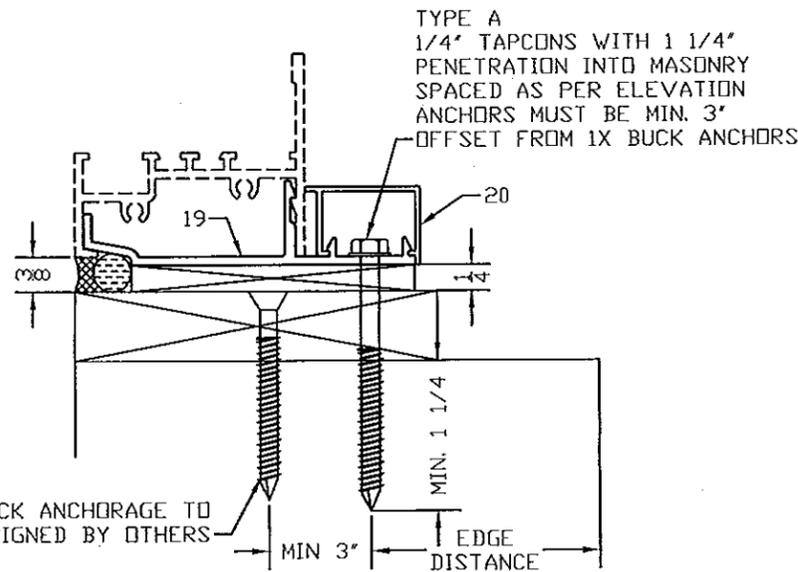
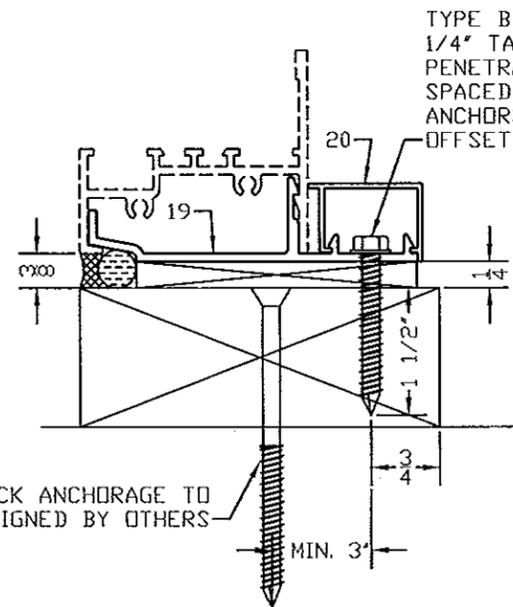
4348 WESTROADS DRIVE  
WEST PALM BEACH, FL 33407  
P: (561) 844-1121 F: (561) 844-6131

DATE	02-23-12
SCALE	AS NOTED
DRAWN	S.L.
PROJECT	12-028
DRAWING NO.	AD12-07
SHEET 5 of 9	



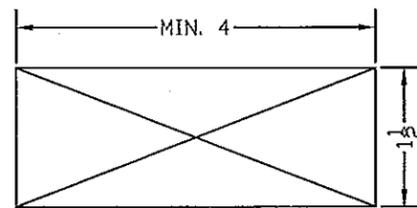
**ANCHORAGE LAY-OUT WITH STRAP**

TYPE	DESCRIPTION	PENETRATION	EDGE DIST.	SUBSTRATUM
A	1/4" TAPCONS	1 1/4"	2-1/2"	MASONRY OR CONCRETE
B	1/4" TAPCONS	1 1/2"	3/4"	INTO 2X BUCK (G>=0.55)
C	1/4-14 SDS	1/8"	1/2"	6063-T6 ALUMINUM ASTM A36 STEEL



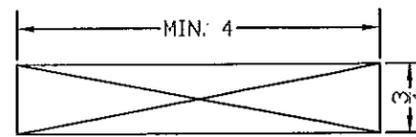
2X BUCK ANCHORAGE TO BE DESIGNED BY OTHERS

1X BUCK ANCHORAGE TO BE DESIGNED BY OTHERS



2X PRESSURE TREATED SOUTHERN PINE G>=0.55

ALL WOOD IN CONTACT WITH MASONRY OR CONCRETE TO BE PROTECTED PER FBC 2326



1X PRESSURE TREATED SOUTHERN PINE G>=0.55

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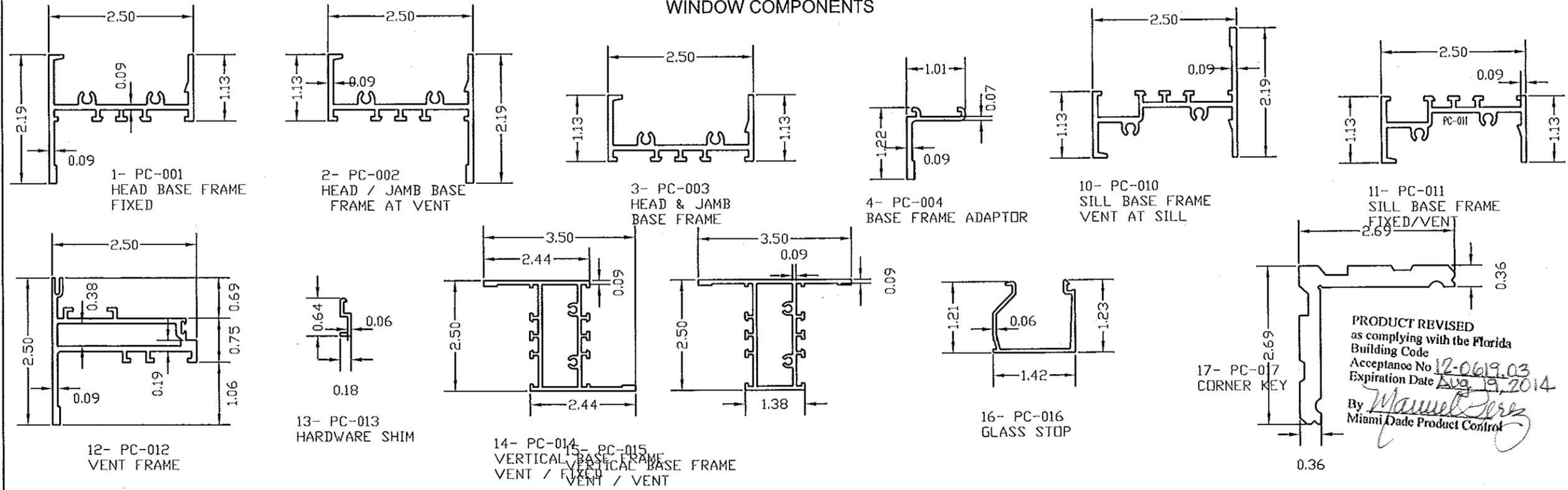
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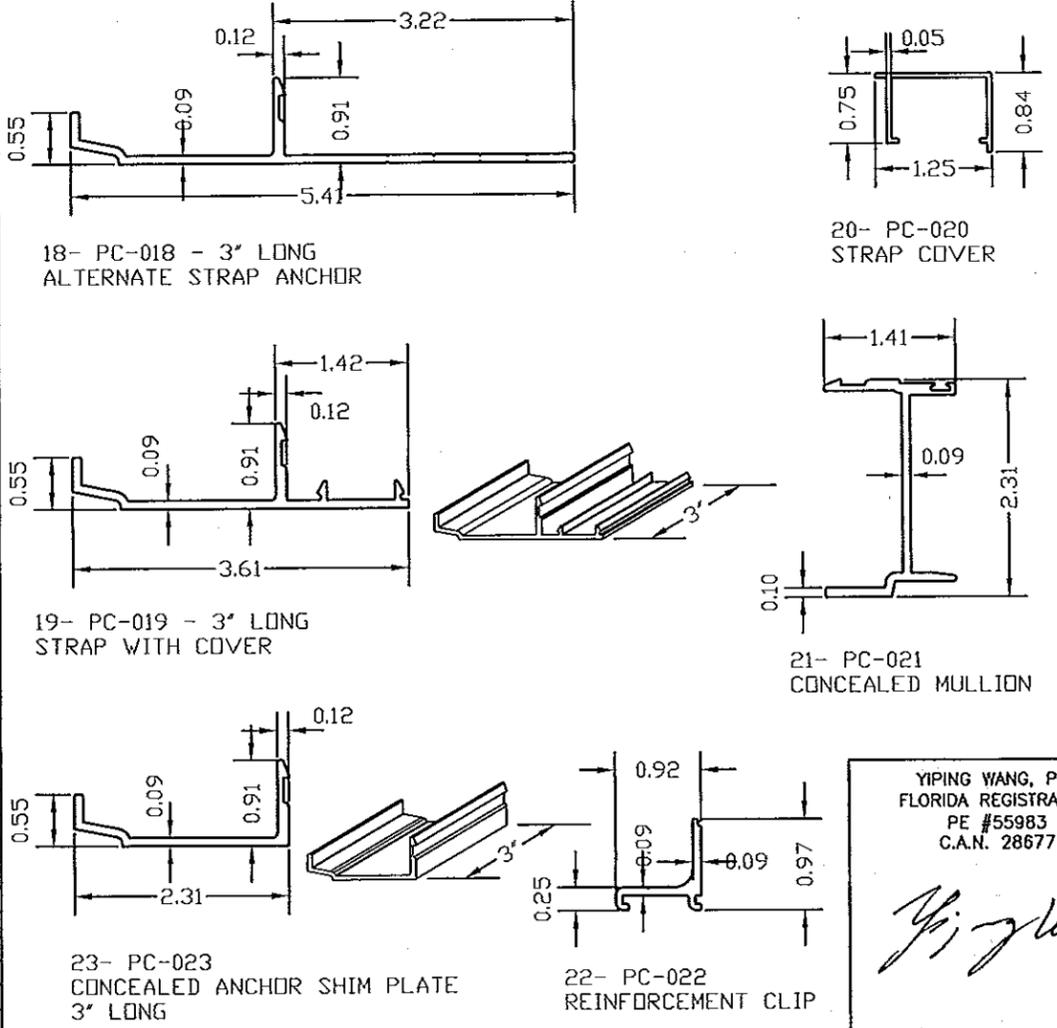
WINDOW COMPONENTS



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By *Manuel Jerez*  
Miami Dade Product Control

COMPONENTS LIST

ITEM	PART#	DESCRIPTION	MATERIAL	SUPPLIER
1	PC-001	HEAD BASE FRAME (FIXED)	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
2	PC-002	HEAD / JAMB BASE FRAME (OPERABLE)	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
3	PC-003	HEAD AND JAMB BASE FRAME	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
4	PC-004	BASE FRAME ADAPTOR	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
10	PC-010	SILL BASE FRAME (OPERABLE)	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
11	PC-011	SILL BASE FRAME (FIXED/OPERABLE)	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
12	PC-012	CASEMENT WINDOW FRAME	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
13	PC-013	HARDWARE SHIM	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
14	PC-014	VERTICAL BASE FRAME (OPERABLE)	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
15	PC-015	VERTICAL BASE FRAME (FIXED)	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
16	PC-016	GLASS STOP	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
17	PC-017	CASEMENT CORNER KEY	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
18	PC-018	ALTERNATE STRAP ANCHOR	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
19	PC-019	STRAP ANCHOR	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
20	PC-020	STRAP ANCHOR COVER	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
21	PC-021	CONCEALED MULLION	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
22	PC-022	REINFORCEMENT CLIP	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
23	PC-023	CONCEALED STRAP ANCHOR	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
30	NR-A25	BUTT HINGE 1192 3-1/4"	NA	ADVANTAGE MANUFACTURING CORP.
31	NR-A22	CAMLOCK ASSEMBLY	BRONZE	BRONZECRAFT
32	NR-A26	MULTI-POINT LOCK	STEEL	ADVANTAGE MANUFACTURING CORP.
33	NR-A27	MULTI-POINT LOCK	STEEL	ROTO FRANK OF AMERICA
34	--	9/16" LAMINATED IMPACT GLASS	GLASS	DUPONT
35	NR-A23	WEEP SLOT COVER	PLASTIC	NR ARCHITECTURAL PRODUCTS
36	NR-A24	VK2526 1/4" PVC SPACER	PVC	CAPITAL TAPE
37	--	GLAZING SEALANT DOW 983 II PART	SILICONE	DOW CORNING
38	--	GLAZING SEALANT DOW 995	SILICONE	DOW CORNING
39	NR-G20	PS 1126E POLY-WEDGE GASKET	70 DURD EPDM	TREMCO
40	NR-G21	EXT. WEATHERSEAL AP 150	EXTRUDED TAPE	SCHLEGEL
41	NR-G22	INT. WEATHERSEAL TLOK 150	POLYETHYLENE	SCHLEGEL
42	NR-G23	VL 1026-107 WEEP VALVE	SILICONE	VERNAV
43	NR-G25	GLASS SETTING BLOCK TR-1365E	70 DURD EPDM	TREMCO
44	--	PERIMETER SEALANT DOW 795	SILICONE	DOW CORNING
45	--	FRAME JOINT SEALANT	SILICONE	CRL BUILDING PRODUCTS
46	NR-F12	BASE FRAME FIXING SCREWS	STAINLESS STEEL	#10X1 PPH TSEK SCREW
47	NR-F13	ADAPTOR FIXING SCREW	STAINLESS STEEL	#12 X 3/4" PP TEK SREW
48	NR-EP1	1/16"-2-1/2"X5/16" END PLATE	6063-T6 ALUMINUM	NR ARCHITECTURAL PRODUCTS



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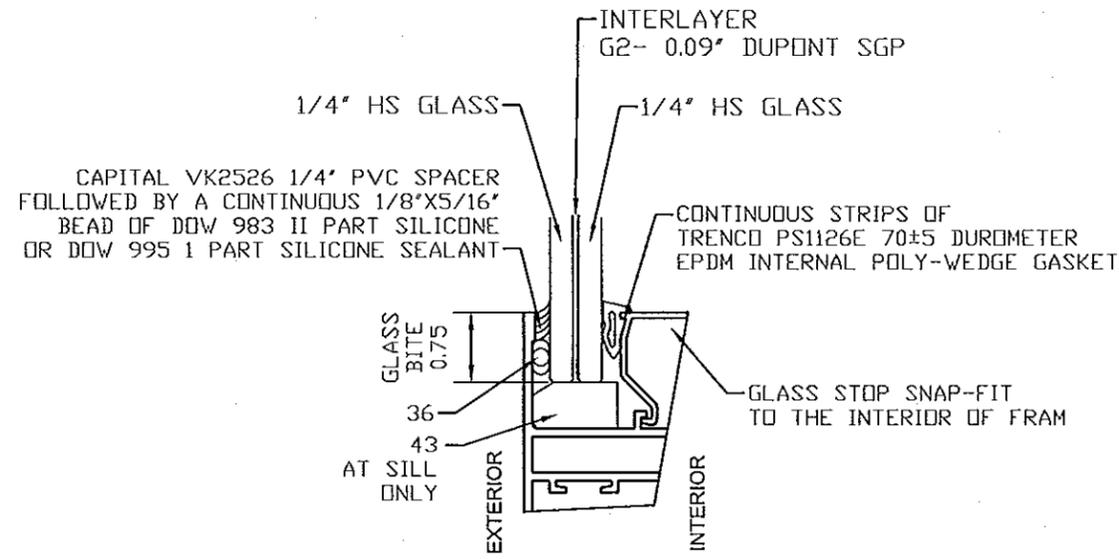
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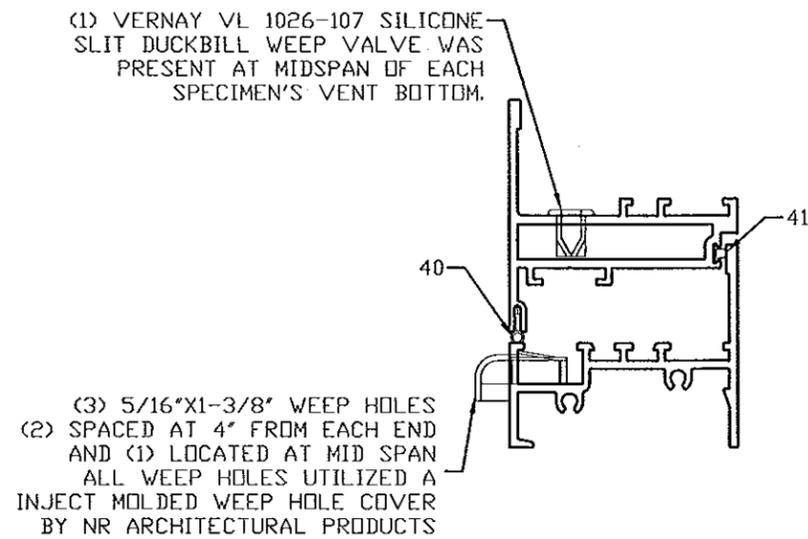
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**GLAZING DETAIL**



**WEEP HOLES, WATER DIVERTERS, COVERS AND WEATHER STRIPPING**



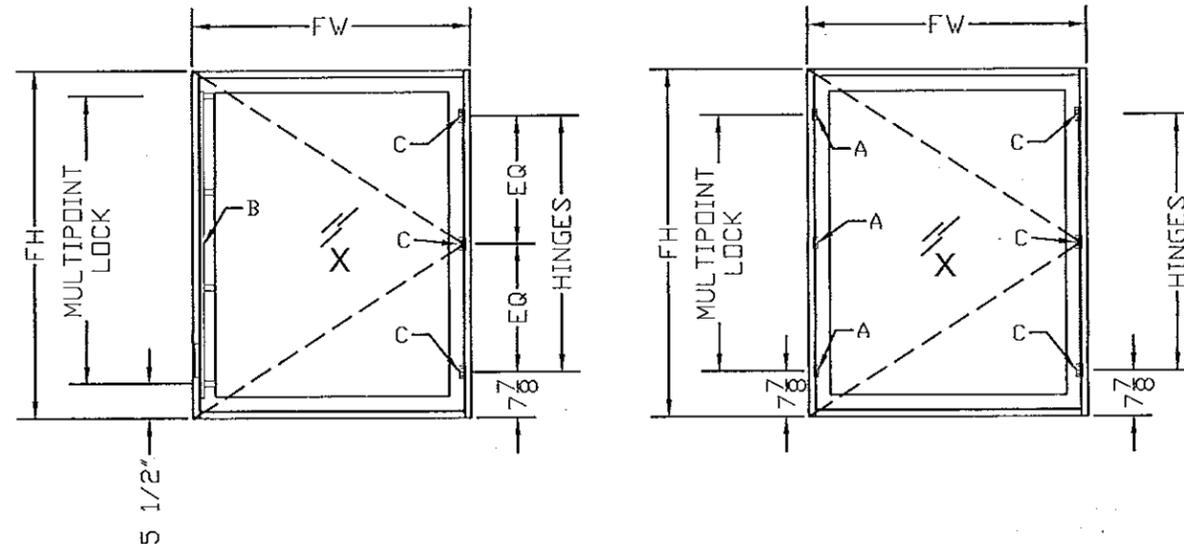
**HARDWARE SCHEDULE:**

A- BRONZECRAFT CAMLOCK ASSEMBLY CONSISTING OF THE HANDLE AND KEEPER. TWO LOCKS LOCATED 7-5/8" FROM THE TOP AND BOTTOM OF THE WINDOW TO CENTERLINE OF THE LOCKS AND THE OTHERS EQUALLY SPACED. THE HANDLE WAS ATTACHED WITH (2) 3/16" X 3/4" PPHMS TO THE OPERABLE VENT JAMB WHILE THE KEEPER WAS FASTENED TO THE FRAME BASE WITH (4) 1/4"-20 X 5/16" FHSTSS SCREWS

B- ADVANTAGE OR ROTO MULTI-POINT LOCK WITH TOP AND BOTTOM LOCK POINTS LOCATED AT 6" FROM THE WINDOW ENDS AND THE OTHER POINTS EQUALLY DISTRIBUTED. THE LOCK HANDLE WAS ATTACHED TO THE JAMB USING (2) #12 X 3/4" PHSMS. THE INTERNAL LOCK ROD IS ATTACHED AT TWO POINTS USING #10 X 1/2" FHSMS.

B- ALTERNATE- ROTO FRANK AMERICA, INC. MULTI-POINT LOCK WITH FIRST LOCATED AT 5-1/2" FROM THE BOTTOM OF THE BASE FRAME AND THE BALANCE EVENLY SPACED. THE LOCK HANDLE WAS ATTACHED TO THE HAMB USING (2) #8 X 1/2" PHSMS. THE INTERNAL LOCK BAR IS ATTACHED ON THE INSIDE FACE OF THE JAMB AT 6 LOCATIONS, FIRST AT 7-5/16" FROM THE BOTTOM AND THE BALANCE EVENLY SPACED FASTENED WITH (3) #8 X 3/4" FHSMS.

C- ADVANTAGE 1192 3-1/4" BUTT HINGE WITH TWO LOCATED 7-7/8" FROM THE TOP AND BOTTOM OF THE WINDOW AND THE OTHERS EQUALLY SPACED. THE HINGES WERE ATTACHED USING (3) #10 X 3/4" PPHSS SCREWS AT THE JAMB BASE FRAME AND (3) 8/32" X 1/2" PPHSS PER OPERABLE VENT.



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