



MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1107
MIAMI, FLORIDA 33130-1563
 (305) 375-2902 FAX (305) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

NR Architectural Products
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 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 "NRAP 2500-CO" Outswing Aluminum Casement Window – S.M.I.

APPROVAL DOCUMENT: Drawing No. **09-090**, titled "Series NRAP 2500-CO Casement Out Window Small Missile Impact", sheets 1 through 9 of 9, dated 05/09/09, 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: Small Missile Impact Resistant

LIMITATIONS: Miami-Dade County Product Control Approved Shutters Or Protection Devices Shall Be Required Up To 30 Ft. of Grade.

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 consists of this page 1 and evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



J. Gascon
 8/19/09

NOA No. 09-0519.04
Expiration Date: August 19, 2014
Approval Date: August 19, 2009
 Page 1

NR Architectural Products

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **09-090**, titled "Series NRAP 2500-CO Casement Out Window Small Missile Impact", sheets 1 through 9 of 9, dated 05/09/09, 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) Small 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 202-94
along with marked-up drawings and installation diagram of casement out- & fixed window system, prepared by Hurricane Testing Laboratory, Inc., Test Report No. **HTL 0242-0301-09**, dated 04/07/09, signed and sealed by Vinu J. Abraham, P. E.

C. CALCULATIONS

1. Anchor calculations and structural analysis, complying with FBC-2007, prepared by EngCo, Inc., dated 05/14/09, signed and sealed by Pedro De Figueiredo, P. E.
Complies with ASTM E1300-02/ 04

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

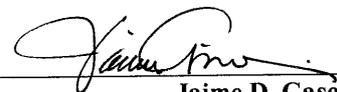
1. Notice of Acceptance No. **09-0312.03** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/13/09, expiring on 01/14/12.
2. Notice of Acceptance No. **09-0312.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite® PVB, Interlayer**" dated 05/13/09, expiring on 12/11/10.
3. 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.
4. 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.

E. STATEMENTS

1. Statement letter of conformance and no financial interest, dated May 12, 2009, signed and sealed by Pedro De Figueiredo, P. E.
2. Laboratory compliance letter for Test Report No. **HTL 0242-0301-09**, issued by Hurricane Test Laboratory, Inc., dated April 23, 2009, signed and sealed by Vinu J. Abraham, P. E.

G. OTHERS

1. None.



Jaime D. Gascon, P. E.

Chief, Product Control Division

NOA No. 09-0519.04

Expiration Date: August 19, 2014

Approval Date: August 19, 2009

GENERAL NOTES: FLORIDA BUILDING CODE 2007

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 CASEMENT OUT TYPE WINDOW DESIGNED, CONSTRUCTED AND TESTED TO PROVIDE PROTECTION FROM HURRICANE FORCE WINDS AND WIND BORNE DEBRIS (SMALL MISSILE) WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL. INSTALLATION BELOW 30 FEET ELEVATION IT WILL REQUIRE APPROVED HURRICANE PROTECTION DEVICES.

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.

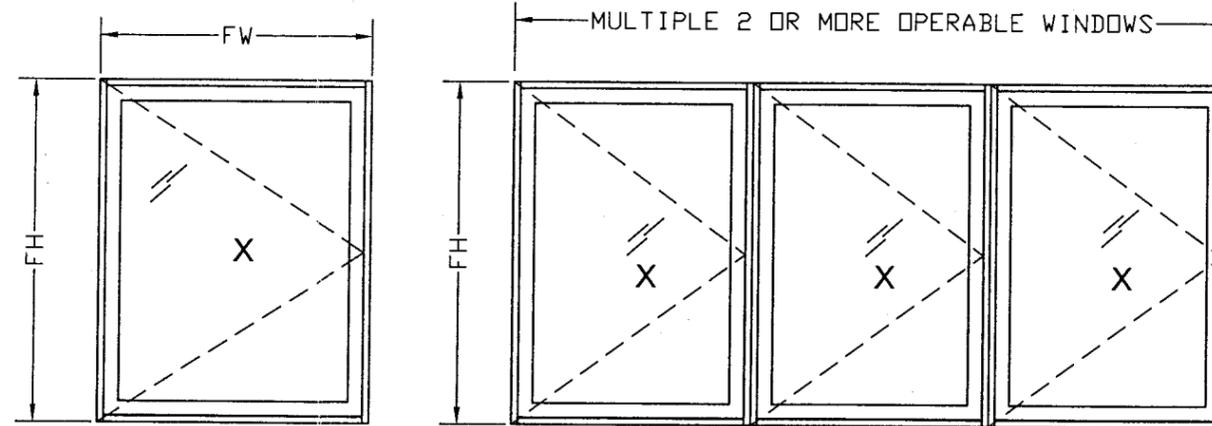
7.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.

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.

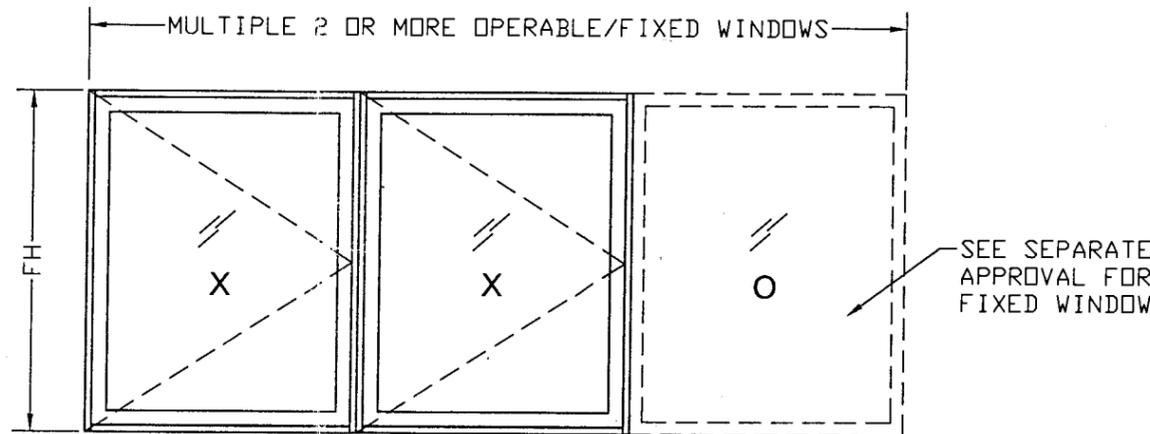
9- DISSIMILAR MATERIALS: MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL, THAT COME IN CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2007 FLORIDA BUILDING CODE.

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

TABLE OF CONTENTS:

SHEET	DESCRIPTION
1 of 9	GENERAL NOTES, INDEX AND TYPICAL ELEVATIONS
2 of 9	TABLE 1 DESIGN RATING FOR SINGLE CASEMENT OUT UNITS
3 of 9	TABLE 2 DESIGN RATING FOR MULTIPLE WINDOWS UNITS
4 of 9	TYPICAL DETAILS
5 of 9	TYPICAL DETAILS, CORNER ASSEMBLY
6 of 9	ANCHORAGE LAY-OUT WITH STRAPS
7 of 9	ANCHORAGE LAY-OUT WITH SHEAR CLIP
8 of 9	WINDOW COMPONENTS AND BILL OF MATERIAL
9 of 9	HARDWARE SCHEDULE, GLAZING DETAILS & WEEP HOLES

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

PRODUCT NOT TO BE INSTALLED BELOW 30 FEET ELEVATION
WITHOUT HURRICANE PROTECTION DEVICES

MANUFACTURER:

NR

ARCHITECTURAL
PRODUCTS, INC.

4348 WESTROADS DRIVE
WEST PALM BEACH
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PRODUCT:

NRAP 2500-CO
CASEMENT OUT WINDOW
SMALL MISSILE IMPACT

Engineering:

EngCo Inc.

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

JUL 21 2009
Engineer Seal
Pedro De Figueiredo
PE 52609

DRAFTING:

PK DRAFTING & MORE

MIAMI-DADE BCCO:

Approved as complying with the
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Miami Dade Product Control
Division
By

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Scale: NA
Design by: PPMF

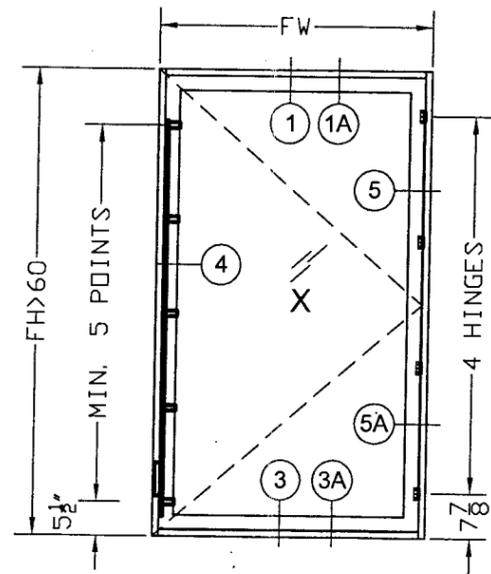
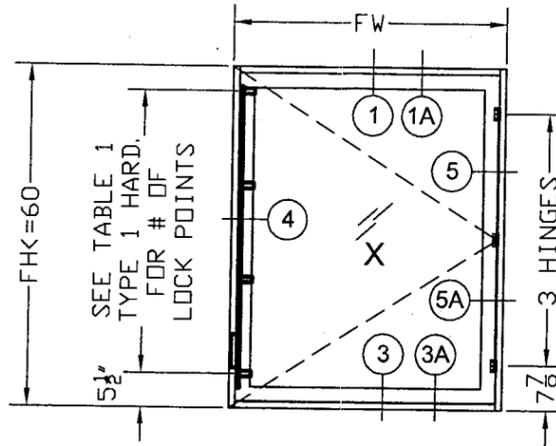
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09-090

SHEET
1 of 9

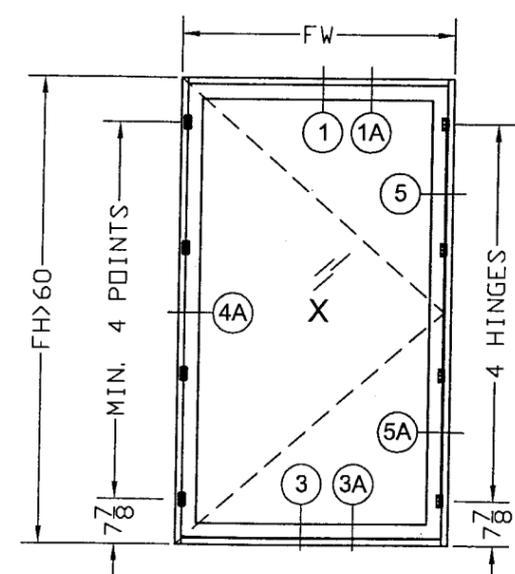
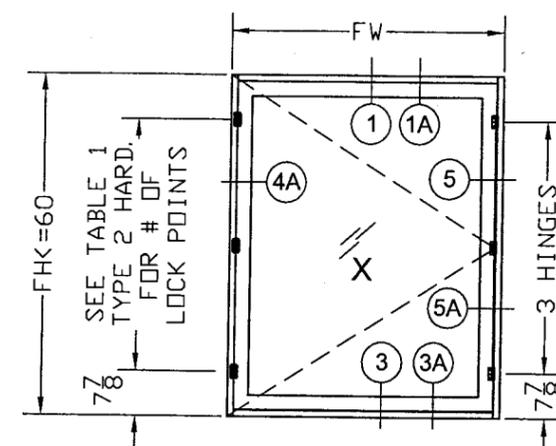
TABLE 1
DESIGNED RATING FOR
SINGLE CASEMENT OUT UNITS (PSF)

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
	72	79	79	5	105	105	4
38.75	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
	66	78	78	5	86	86	4
	72	69	69	5	78	78	4
44	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
	60	83	83	4	83	83	3
	66	73	73	5	75	75	4
48.625	38	80	80	3	80	80	3
	42	77	77	3	77	77	3
	48	75	75	4	75	75	3
	54	75	75	4	75	75	3
	60	75	75	4	75	75	3
54	38	50	50	3	50	50	3
	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 ROTD) 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

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PK DRAFTING & MORE

MIAMI-DADE BCCO:

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Miami Dade Product Control
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By [Signature]

Date: 05/09/2009
Scale: NA
Design by: PPMF

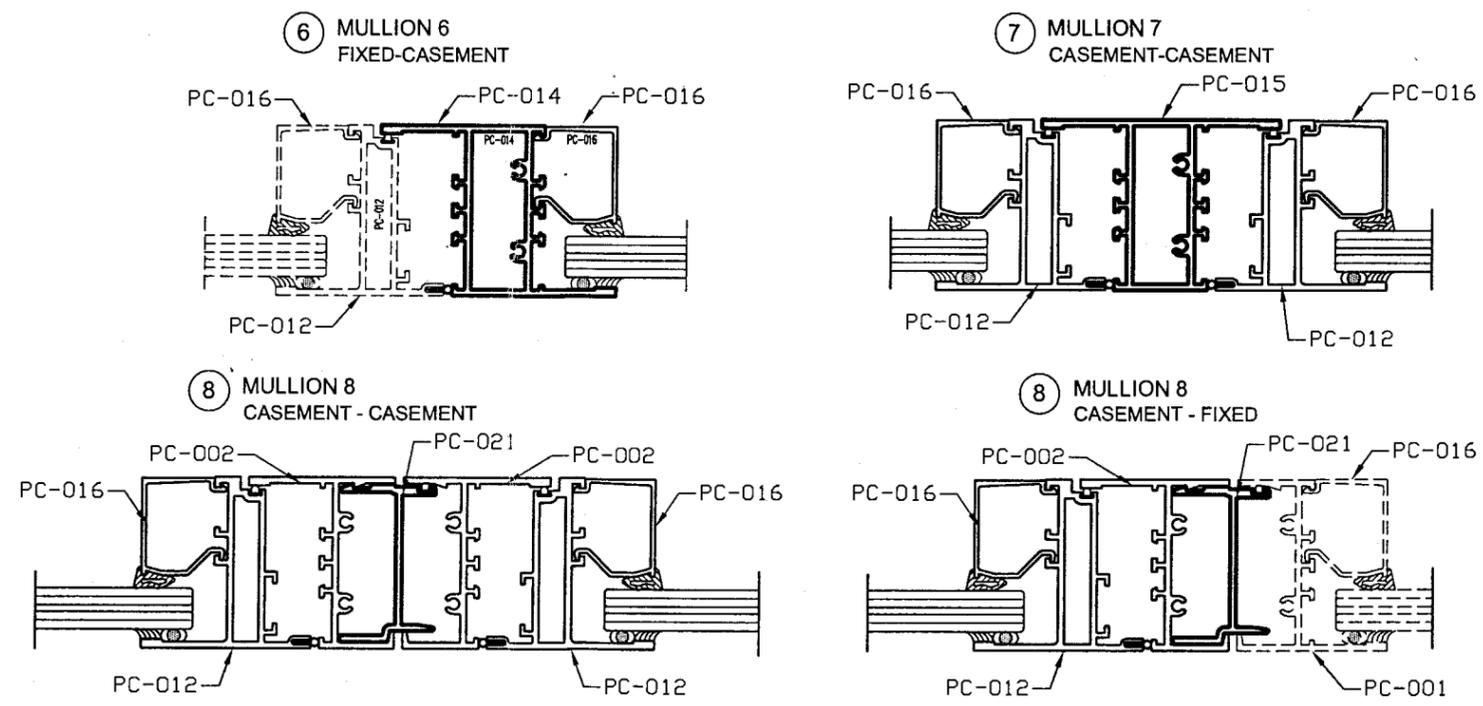
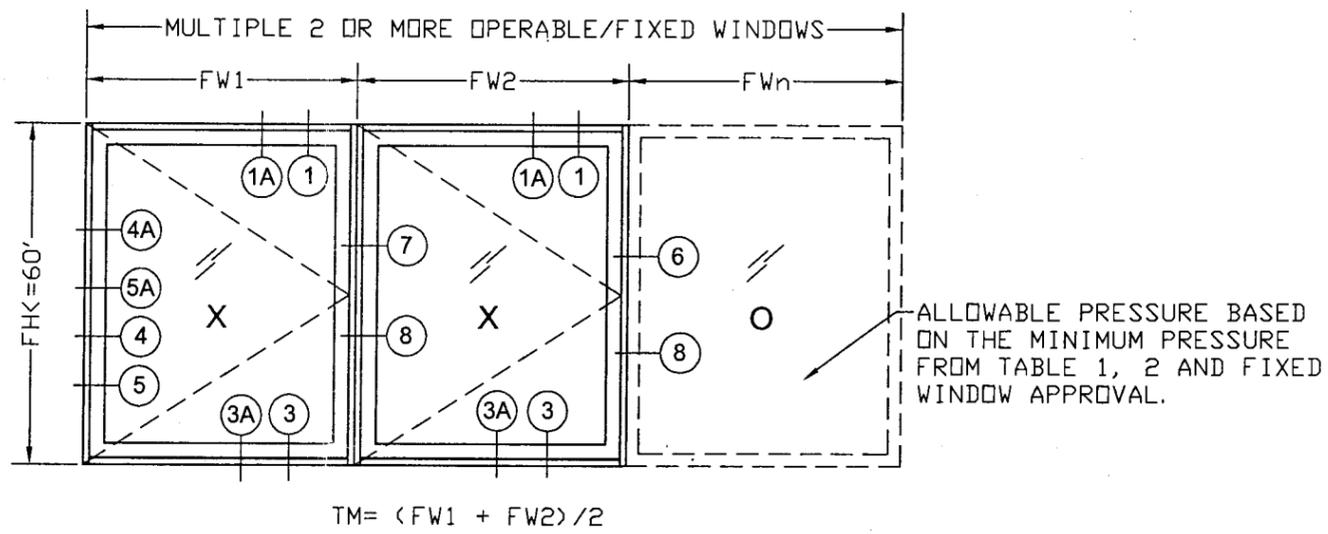
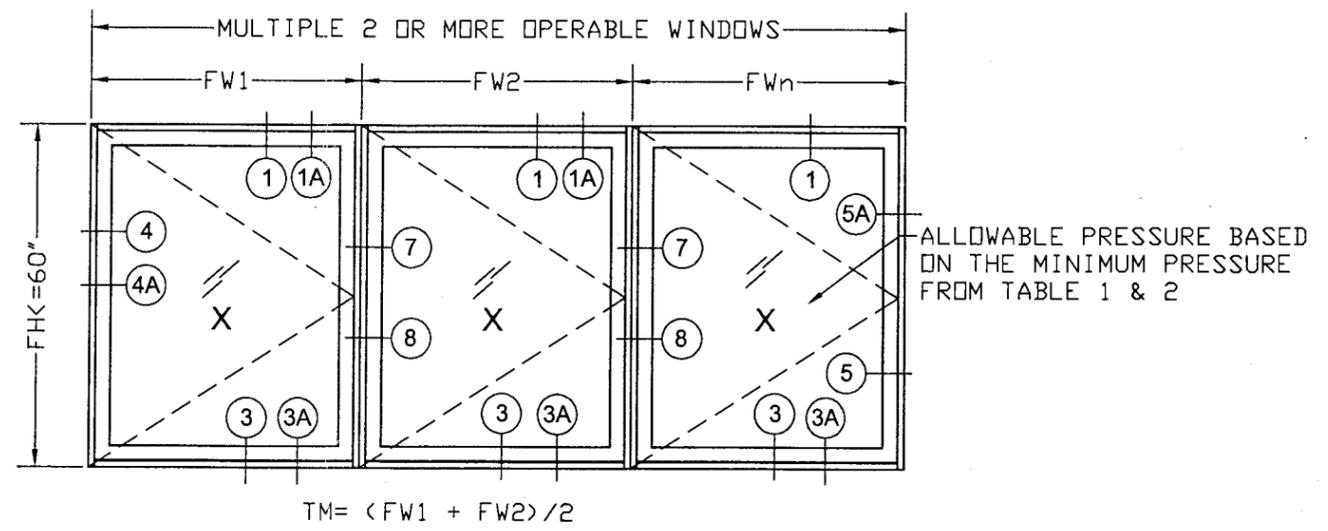
Drawing Number
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SHEET
2 of 9

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

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



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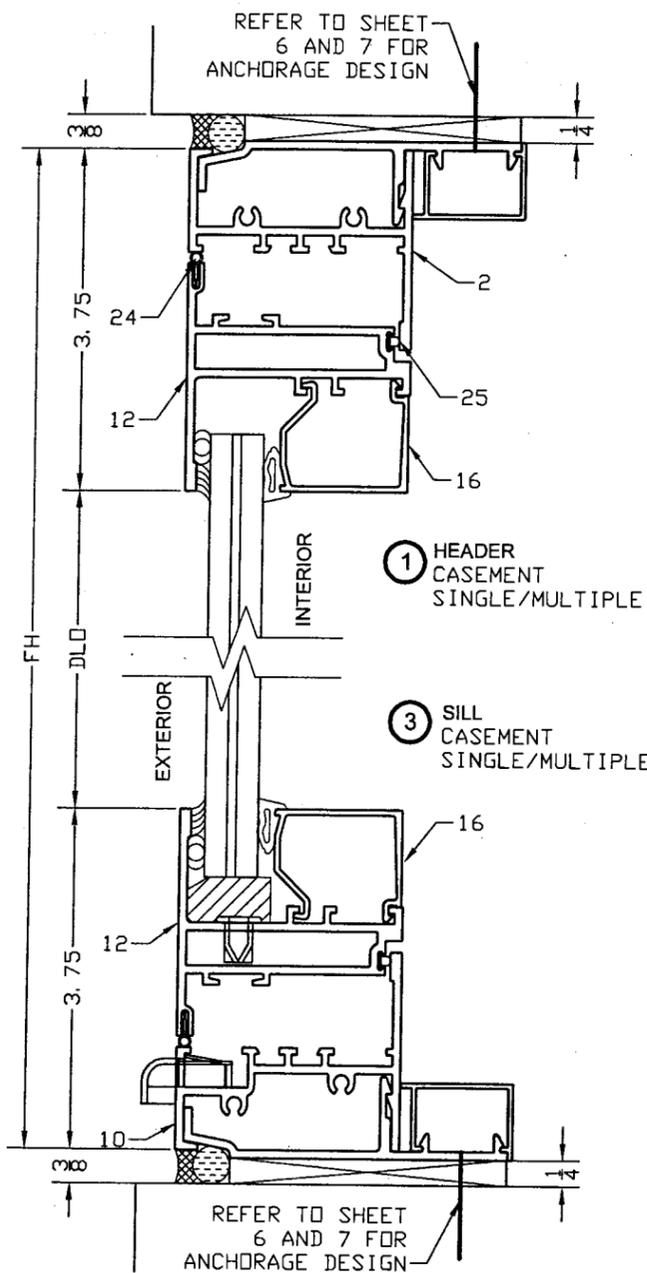
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By *[Signature]*

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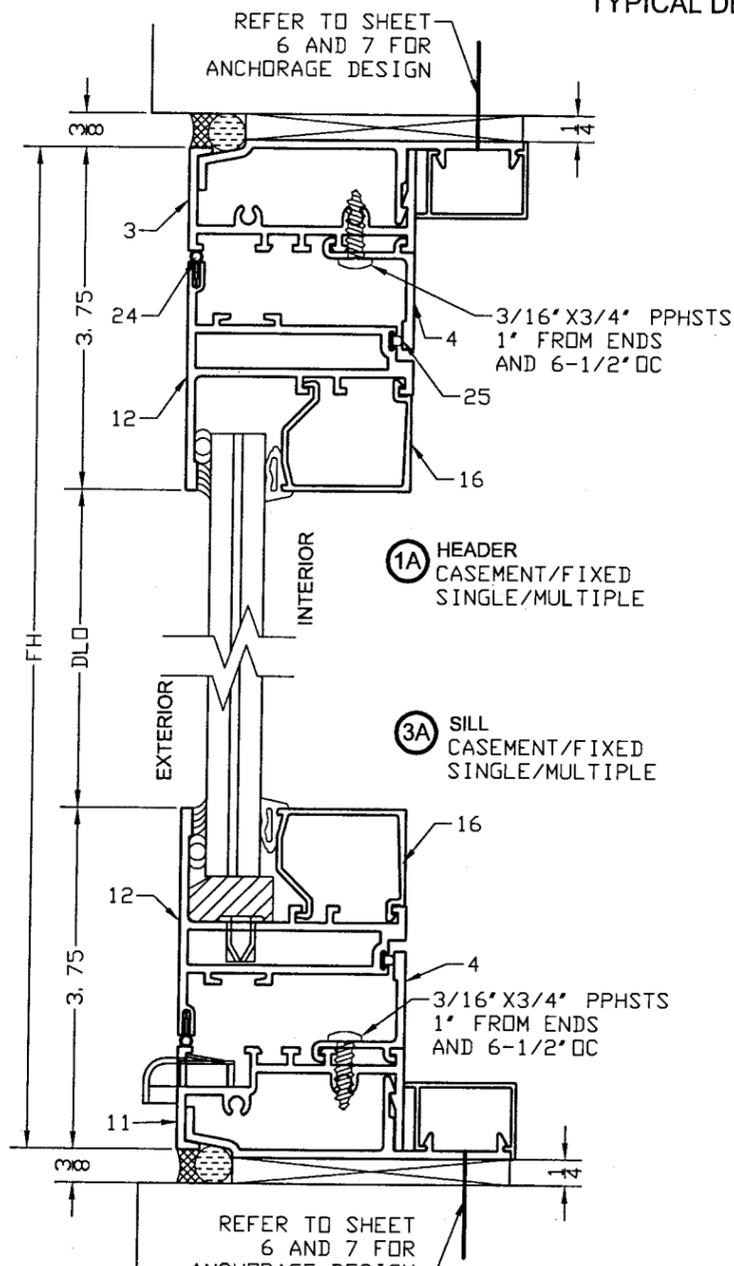
SHEET
3 of 9

TYPICAL DETAILS



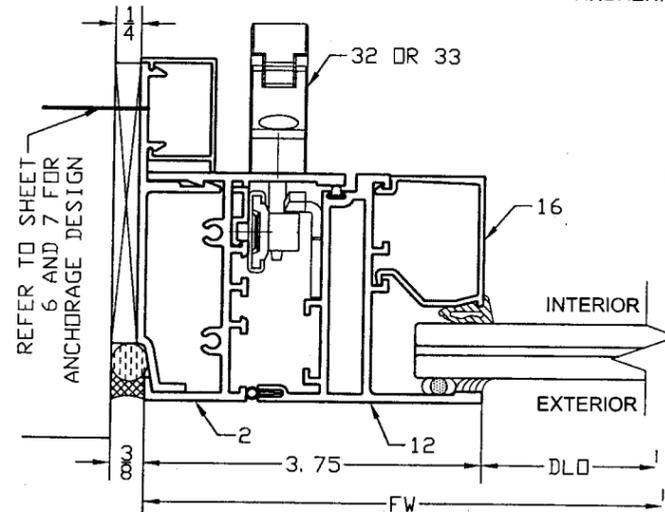
1 HEADER CASEMENT SINGLE/MULTIPLE

3 SILL CASEMENT SINGLE/MULTIPLE

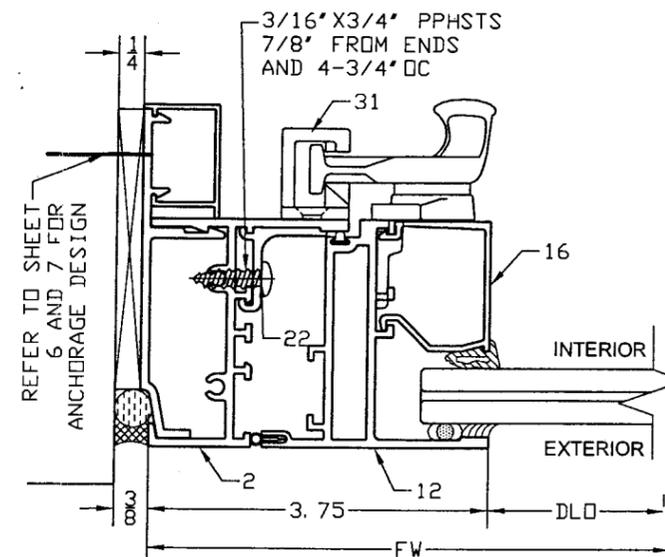


1A HEADER CASEMENT/FIXED SINGLE/MULTIPLE

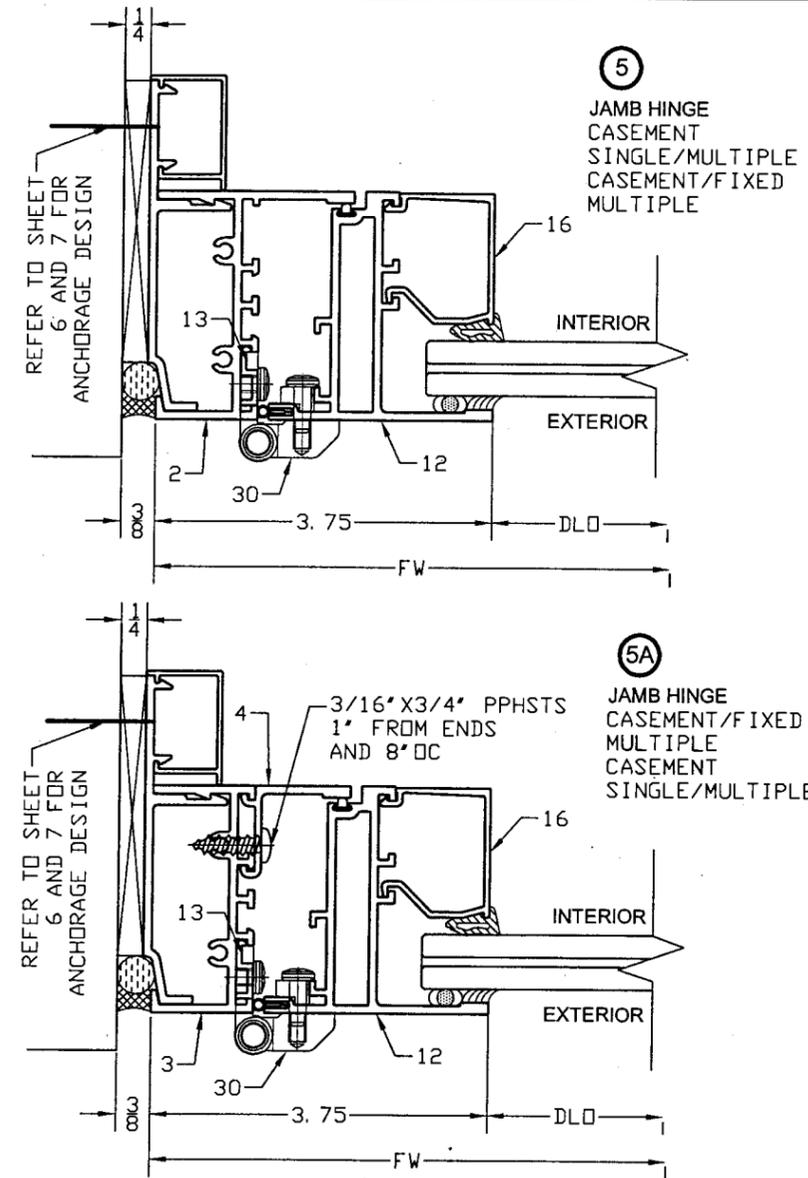
3A SILL CASEMENT/FIXED SINGLE/MULTIPLE



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

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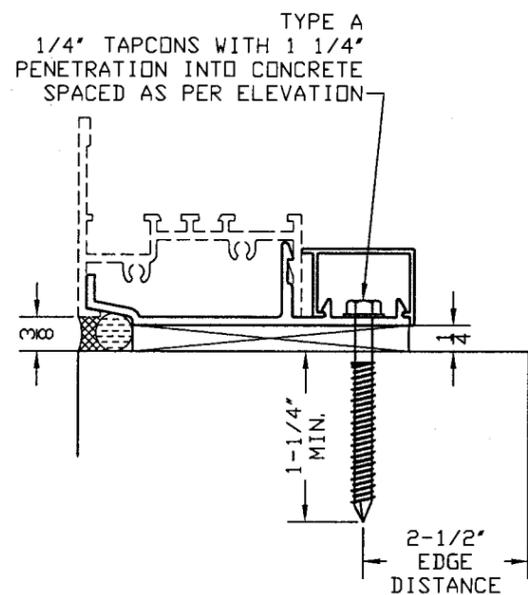
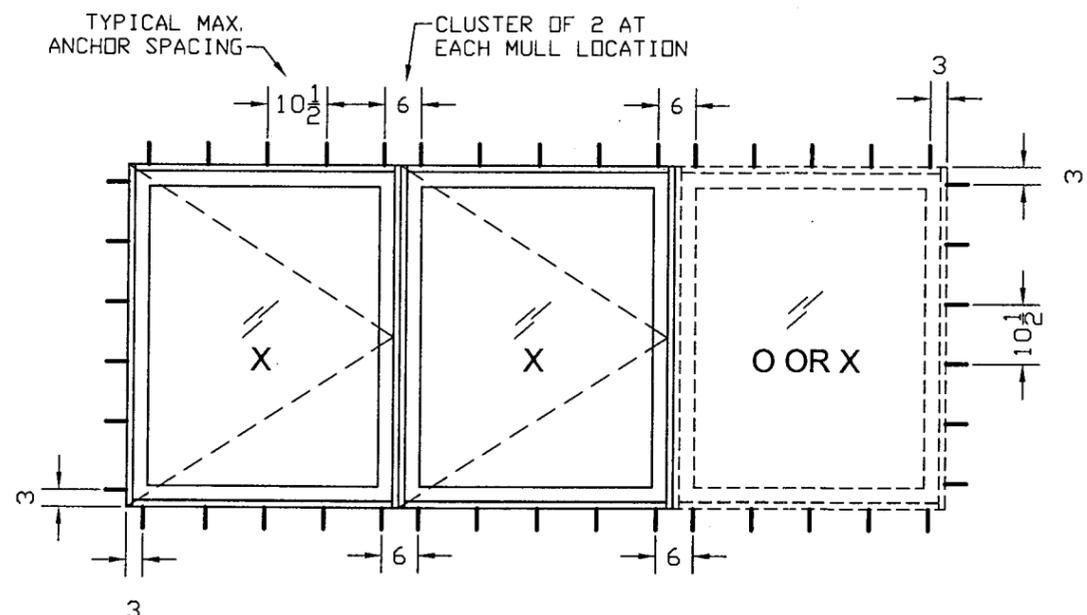
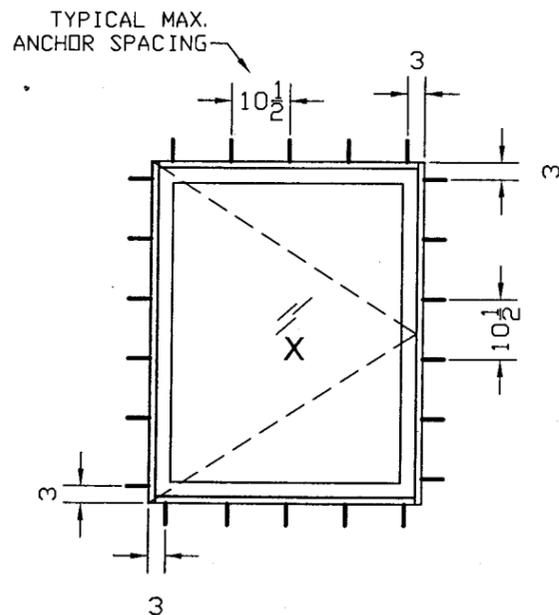
MIAMI-DADE BCCO:

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 Miami Dade Product Control
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 By *[Signature]*

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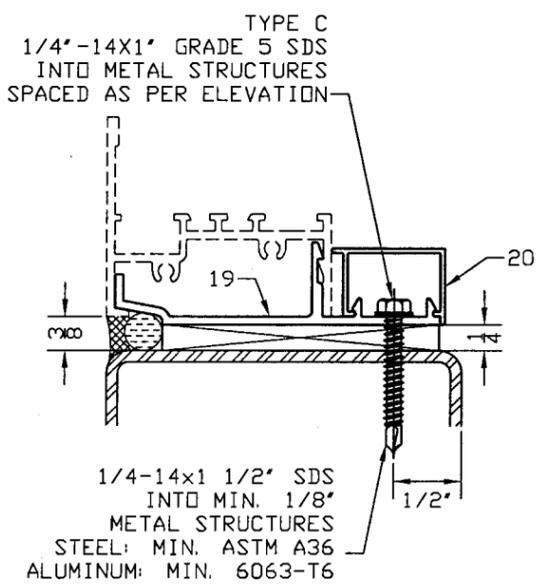
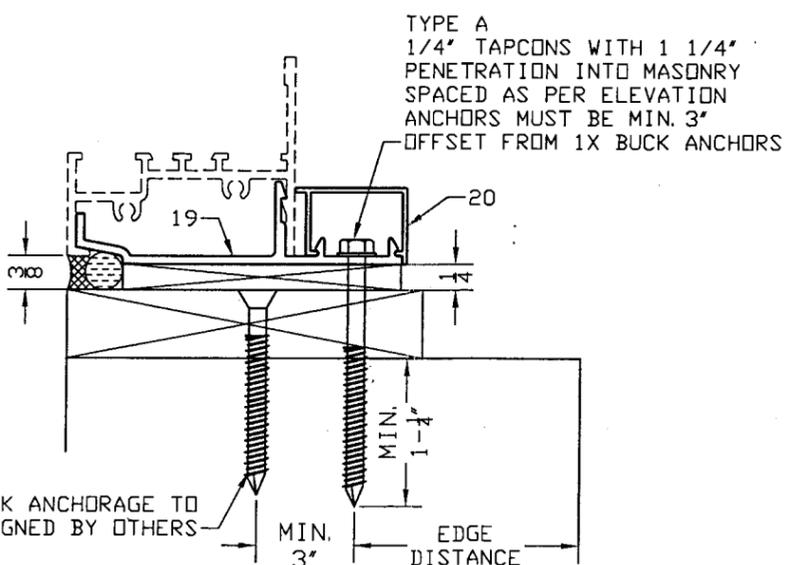
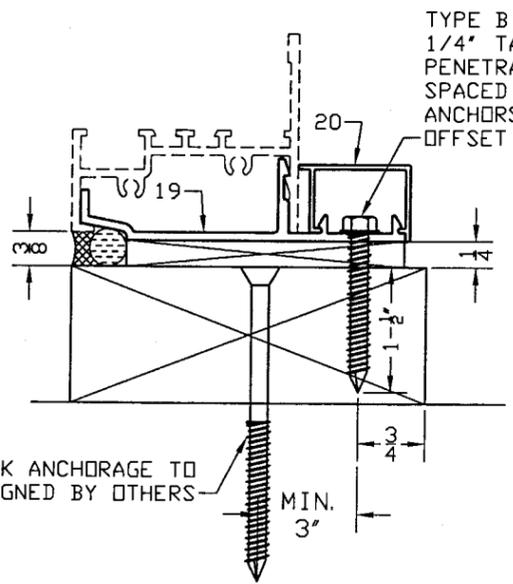
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SHEET
 4 of 9



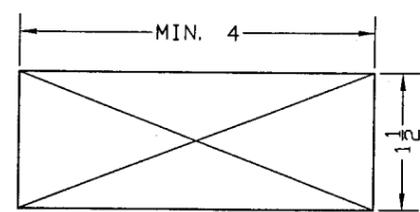
ANCHORAGE LAY-OUT WITH STRAP

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



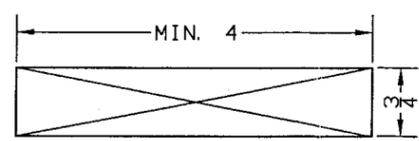
2X BUCK ANCHORAGE TO BE DESIGNED BY OTHERS

1X BUCK ANCHORAGE TO BE DESIGNED BY OTHERS



2X PRESSURE TREATED SOUTHERN PINE G>=.55

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



1X PRESSURE TREATED SOUTHERN PINE G>=.55

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6971 W. Sunrise Blvd. 104
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PK DRAFTING & MORE

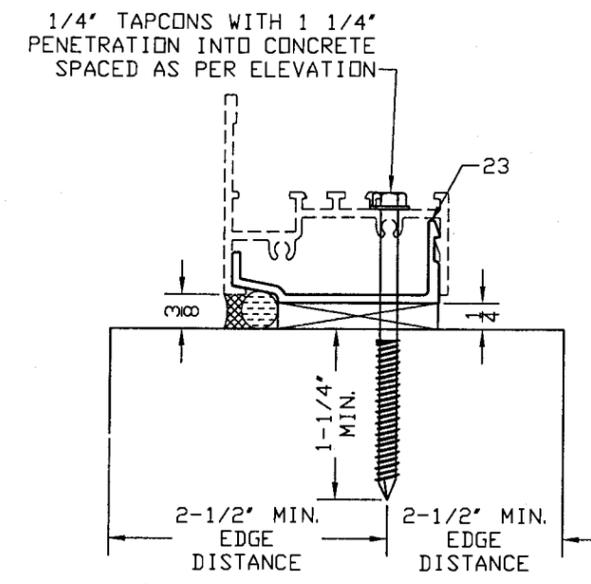
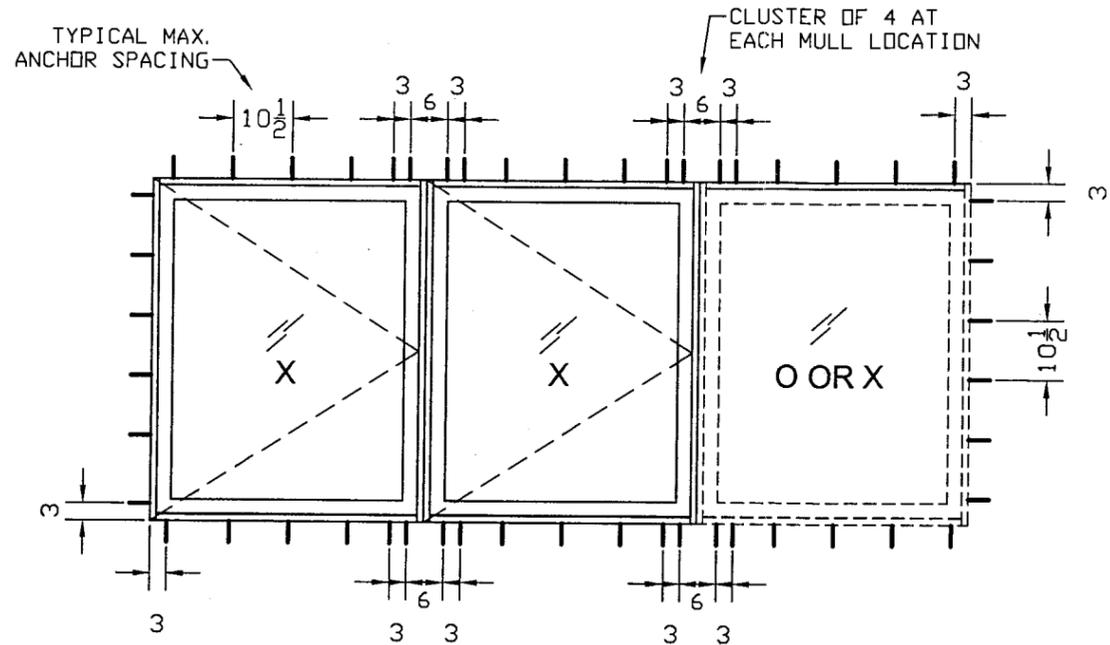
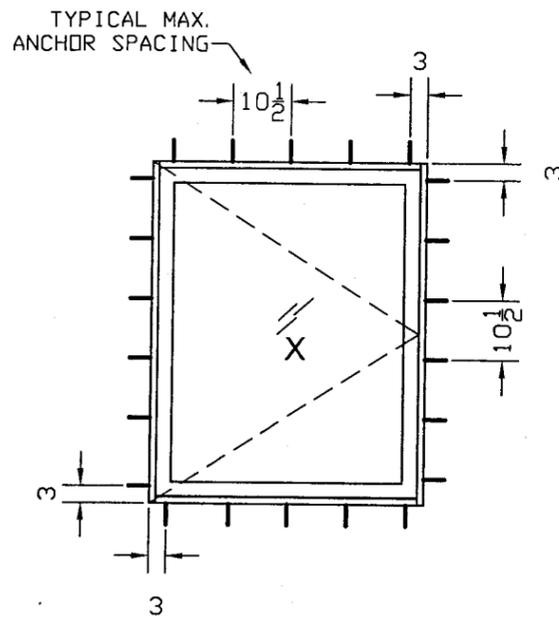
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Miami Dade Product Control Division
By [Signature]

Date: 05/09/2009
Scale: NA
Design by: PPMF

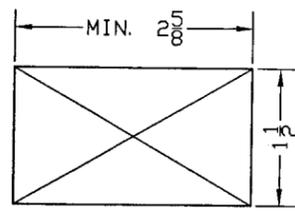
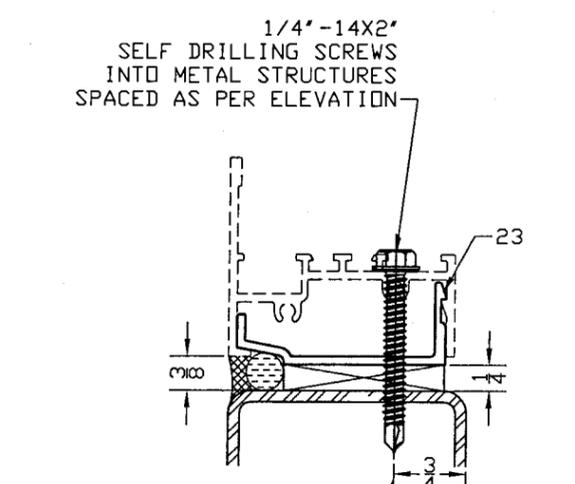
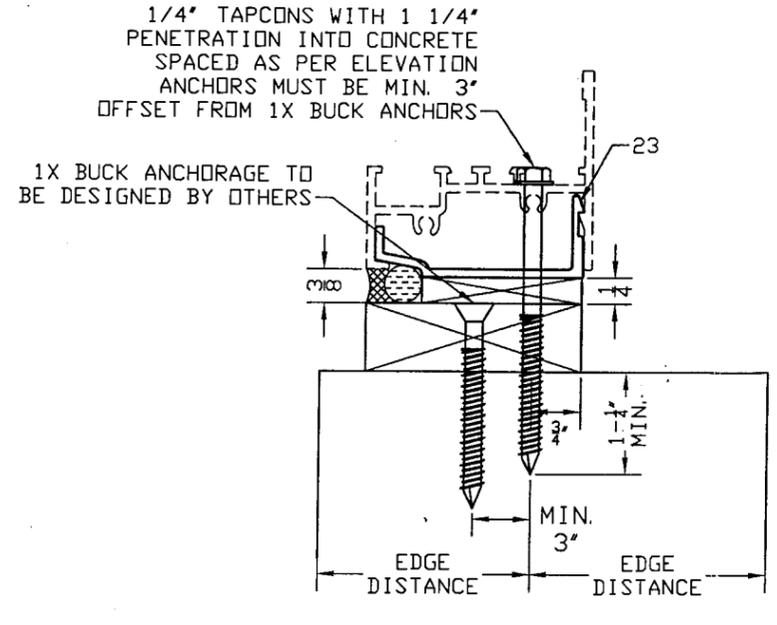
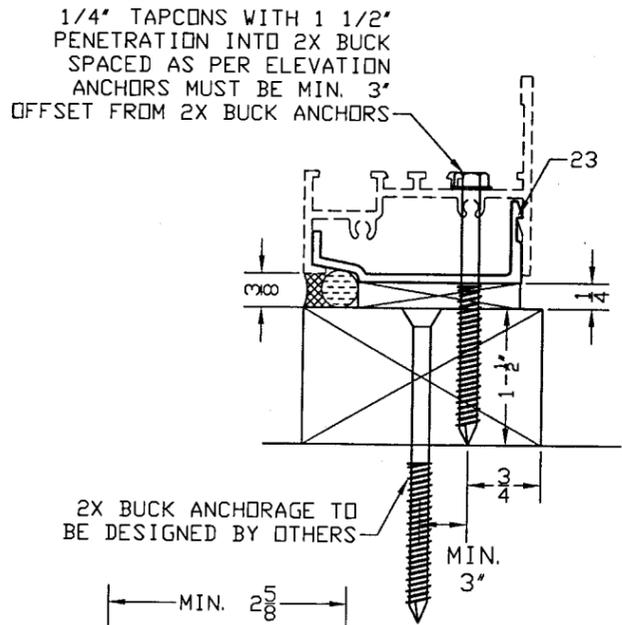
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09-090

SHEET
6 of 9



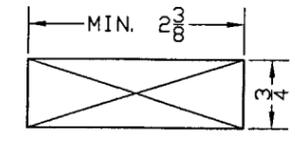
ANCHORAGE LAY-OUT WITH SHEAR CLIP

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 PRESSURE TREATED SOUTHERN PINE G >= .55

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



1X PRESSURE TREATED SOUTHERN PINE G >= .55

1/4"-14x1 1/2" SDS INTO MIN. 1/8" METAL STRUCTURES STEEL: MIN. ASTM A36 ALUMINUM: MIN. 6063-T6

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NR
ARCHITECTURAL PRODUCTS, INC.
4348 WESTROADS DRIVE
WEST PALM BEACH
FLORIDA - 33407
WWW.NRWINDOWS.COM
PH.: (561) 844-1121
FAX: (561) 844-6131

PRODUCT:
NRAP 2500-CO
CASEMENT OUT WINDOW
SMALL MISSILE IMPACT

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

[Signature]

JUL 21 2009
Engineer Seal
Pedro De Figueiredo
PE 52609

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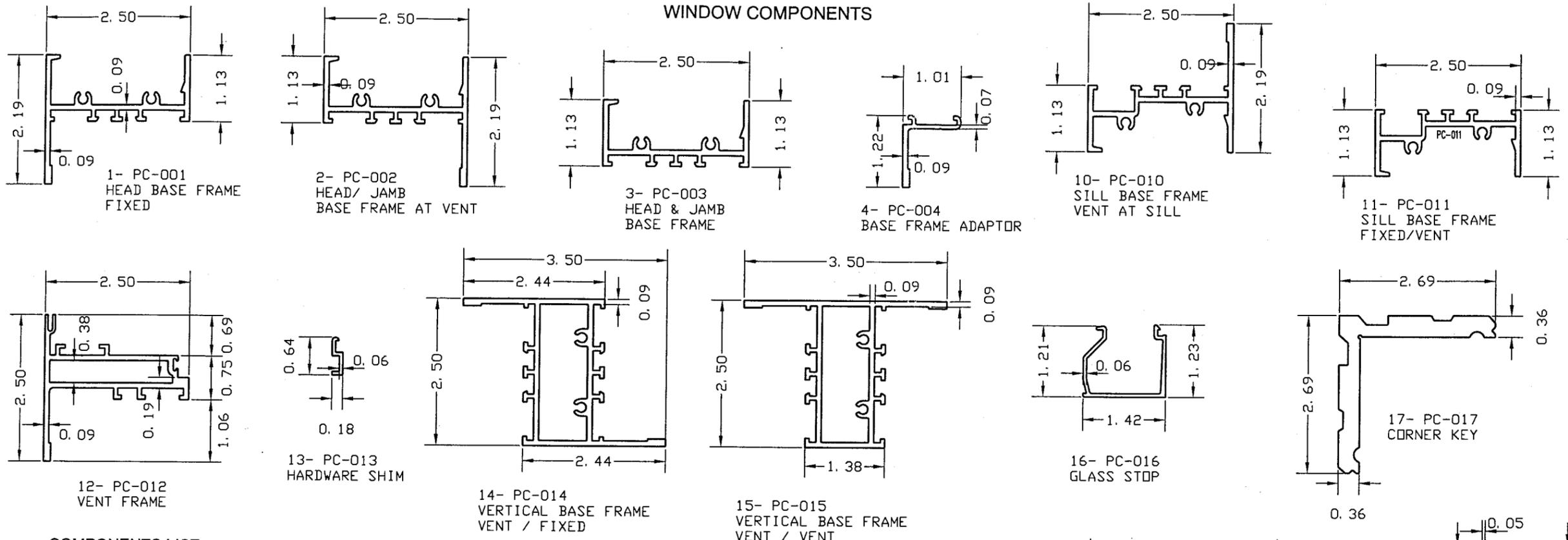
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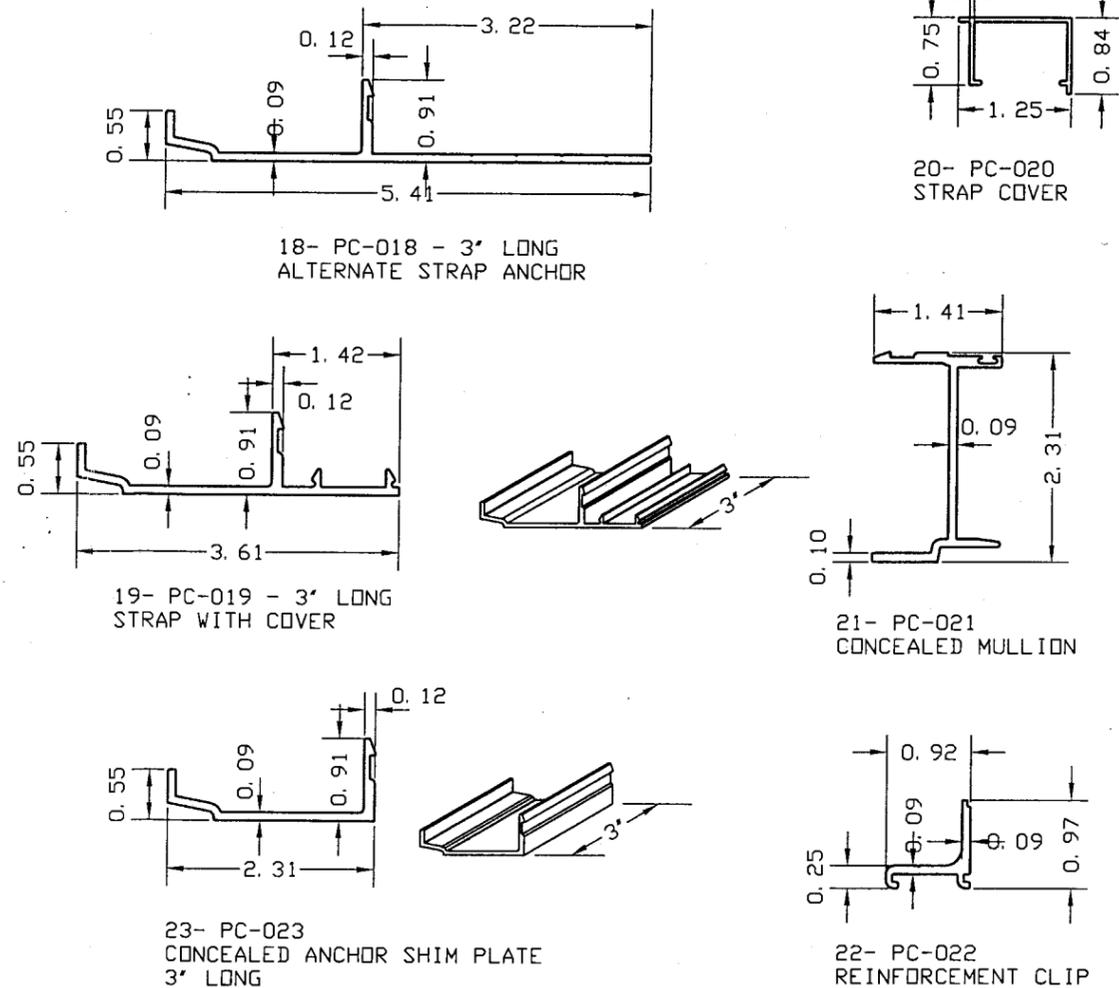
SHEET
7 of 9

WINDOW COMPONENTS



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	POLYETHELENE	SCHLEGEL
42	NR-G23	VL 1026-107 WEEP VALVE	SILICONE	VERNAY
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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 6971 W. Sunrise Blvd. 104
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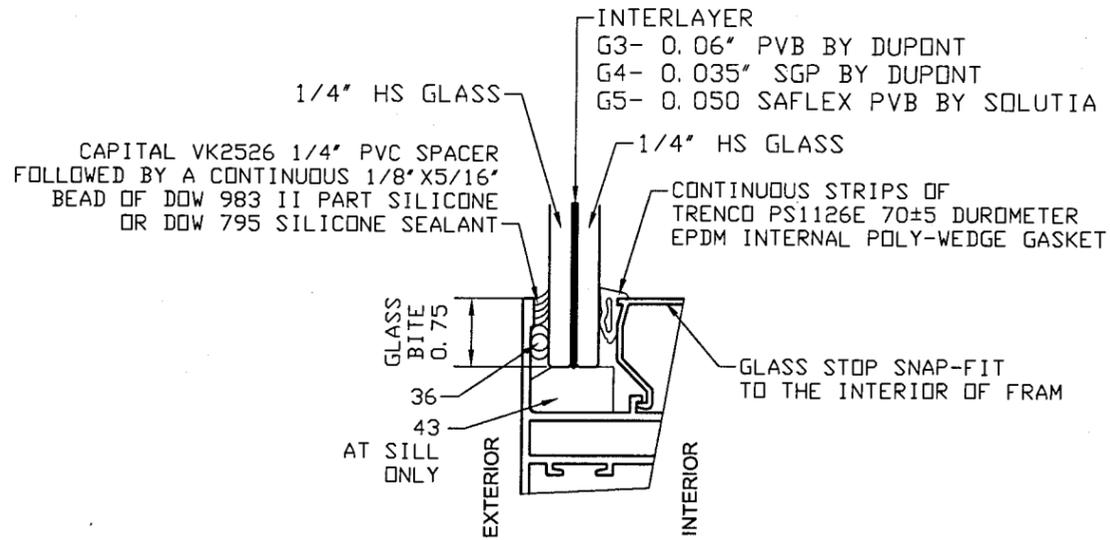
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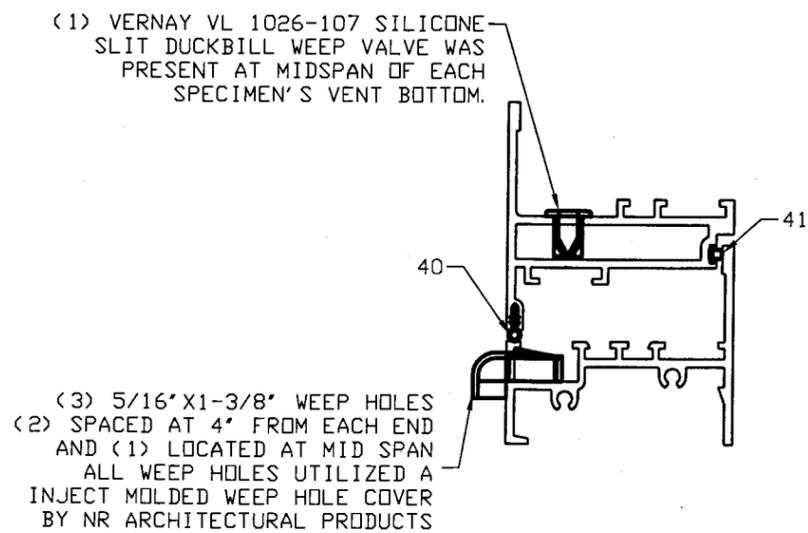
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SHEET
8 of 9

GLAZING DETAIL



WEEP HOLES, WATER DIVERTERS, COVERS AND WEATHER STRIPPING



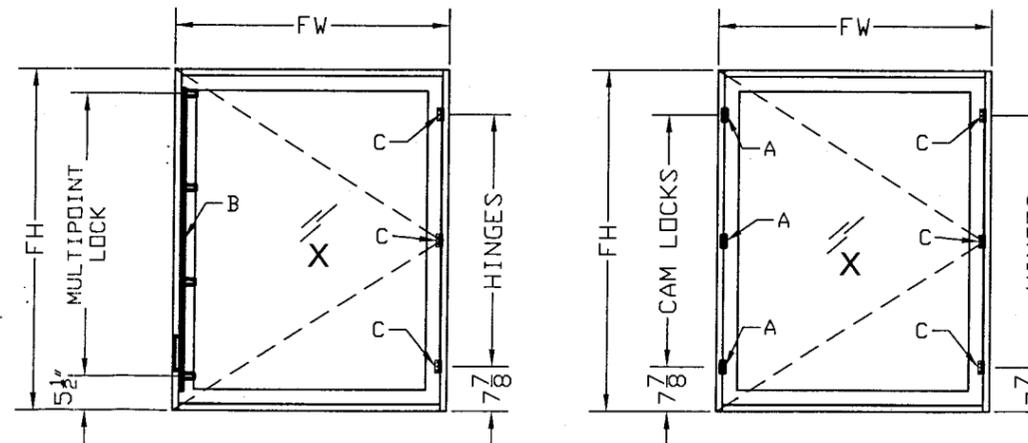
HARDWARE SCHEDULE:

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 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 JAMB USING (2) #12 X 3/4" PHSMS. THE INTERNAL LOCK ROD IS ATTACHED ON THE INSIDE FACE OF THE JAMB AT 4 LOCATIONS, ONE AT TOP, ONE AT BOTTOM AND TWO AT 1/4" POINTS OF THE OVERALL LENGTH OF THE LOCKING BAR, FASTENED AT TWO POINTS EACH 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 JAMB 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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 9 of 9