



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

BUILDING CODE COMPLIANCE OFFICE (BCCO)  
 PRODUCT CONTROL DIVISION

**NOTICE OF ACCEPTANCE (NOA)**

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

**Lawson Industries, Inc.**  
 8501 NW 90<sup>th</sup> St.  
 Medley, FL 33166

**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 "HS-8700 " Horizontal Sliding Window – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **L8700-0901**, titled "Series HS-8700 Horizontal Rolling Flange Impact Window", sheets 1 through 6 of 6, dated 05/30/09 with the latest revision dated 01/19/10, prepared by Lawson Industries, Inc., signed and sealed by Thomas J. Sotos, 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 Division.

**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 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 No. **06-0406.09** 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 **Jaime J. Gascon, P. E.**



*J. Gascon*  
 1/21/10

NOA No. 09-0706.05  
 Expiration Date: April 11, 2012  
 Approval Date: February 10, 2010  
 Page 1

**Lawson Industries, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **L8700-0901**, titled "Series HS-8700 Horizontal Rolling Flange Impact Window", sheets 1 through 6 of 6, dated 05/30/09 with the latest revision dated 01/19/10, prepared by Lawson Industries, Inc., signed and sealed by Thomas J. Sotos, 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 202-94

along with marked-up drawings and installation diagram of 8 specimens of an aluminum horizontal sliding window, XO configuration, prepared by Hurricane Engineering & Testing, Inc., Test Reports No.'s **HETI-08-2033, HETI-08-2034, HETI-08-2035, HETI-08-2036, HETI-08-2037, HETI-08-2038, HETI-08-2116A** and **HETI-08-2116B**, dated February 28, 2008, all signed and sealed by Candido F. Font, P. E.

2. Test reports on:
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  - 3) 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 202-94

along with marked-up drawings and installation diagram of 8 specimens of an aluminum horizontal sliding window, XO configuration, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.'s **FTL-3097, FTL-3098** and **FTL-3364**, dated December 6, 2001, December 11, 2001 and January 28, 2002, all signed and sealed by Luis Antonio Figueredo, P. E.

*(Submitted under previous NOA No. 02-0227.05)*

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Lawson Industries, Inc., dated 06/02/09 with the latest revision dated 01/15/10, signed and sealed by Thomas J. Sotos, P. E.  
**Complies with ASTM E1300-02**



Jaime J. Gascon, P. E.  
Chief, Product Control Division  
NOA No. 09-0706.05  
Expiration Date: April 11, 2012  
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Lawson Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

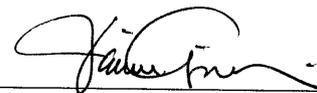
1. Notice of Acceptance No. **09-0312.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite® PVB, Interlayer**" dated 05/13/09, expiring on 12/11/10.
2. Notice of Acceptance No. **06-0216.06** issued to Solutia Inc. for their "**Saflex IIIG Clear or colored interlayer**" dated 05/04/06, expiring on 05/21/11.
3. Notice of Acceptance No. **08-0206.01** issued to Solutia Inc. for their "**Saflex HP Glass Interlayer**" dated 04/17/2008, expiring on 04/17/2013.

**F. STATEMENTS**

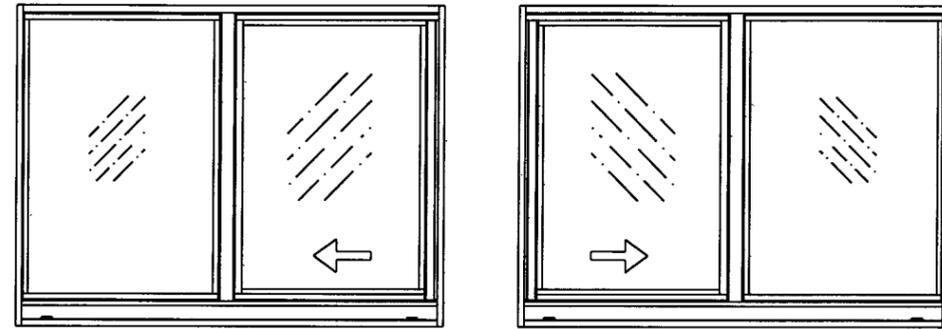
1. Statement letter of conformance, dated June 10, 2009, signed and sealed by Thomas J. Sotos, P.E.
2. Statement letter of no financial interest, dated June 02, 2009, signed and sealed by Thomas J. Sotos, P.E.
3. Laboratory compliance letter for Test Reports No.'s **HETI-08-2033, HETI-08-2034, HETI-08-2035, HETI-08-2036, HETI-08-2037, HETI-08-2038, HETI-08-2116A and HETI-08-2116B**, issued by Hurricane Engineering & Testing, Inc., dated February 28, 2008, all signed and sealed by Candido F. Font, P. E.
4. Laboratory compliance letter for Test Reports No.'s **FTL-3097, FTL-3098 and FTL-3364**, issued by Fenestration Testing Laboratory, Inc., dated December 6, 2001, December 11, 2001 and January 28, 2002, all signed and sealed by Luis Antonio Figueredo, P. E.  
*(Submitted under previous NOA No. 02-0227.05)*

**G. OTHERS**

1. Notice of Acceptance No. **06-0406.09**, issued to Lawson Industries, Inc. for their Series "HS-8700 Aluminum Horizontal Sliding Window, approved on 02/15/07 and expiring on 04/11/12.



Jaime J. Gascon, P. E.  
Chief, Product Control Division  
NOA No. 09-0706.05  
Expiration Date: April 11, 2012  
Approval Date: February 10, 2010

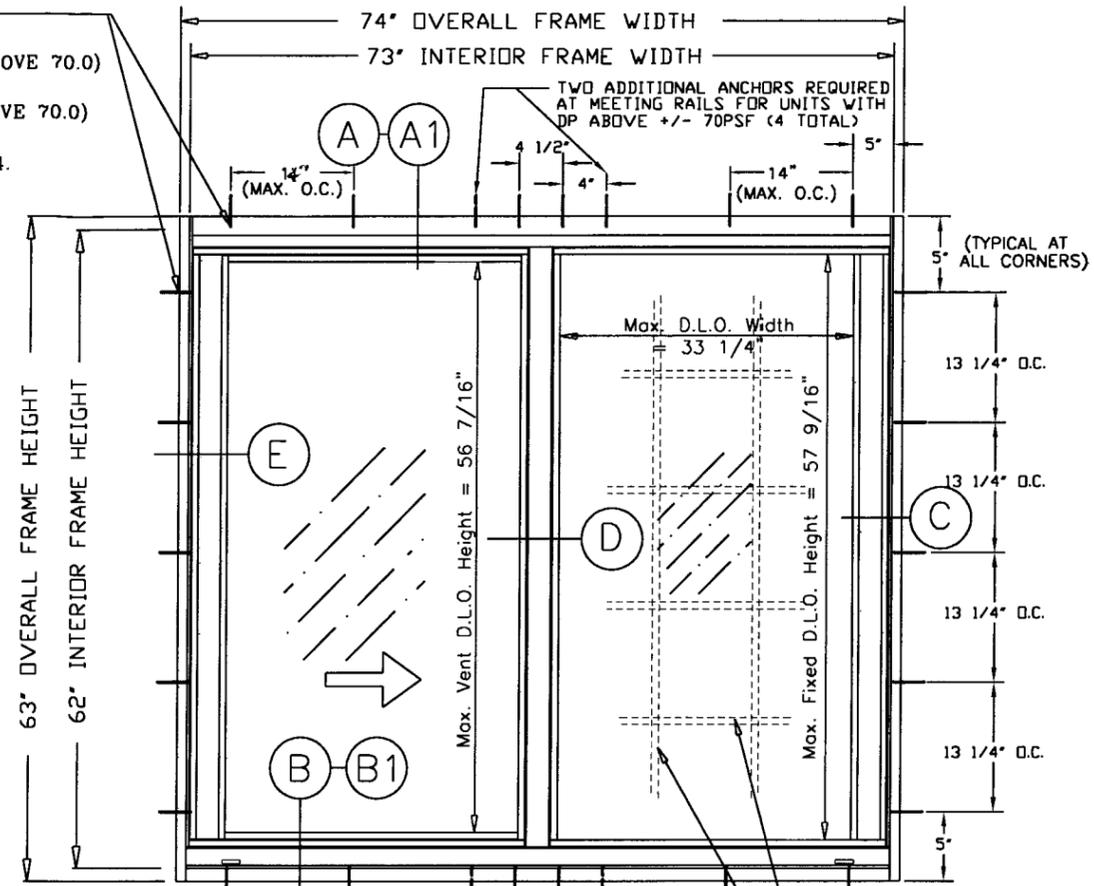


OX

XO

APPROVED ELEVATIONS

TEST UNIT SIZE: 74" X 63"  
 INSTALLATION FASTENERS \*  
 (A) 6 AT FRAME HEAD  
 (8 AT FRAME HEAD IF DP ABOVE 70.0)  
 (B) 6 AT EA. FRAME SILL  
 (8 AT FRAME SILL IF DP ABOVE 70.0)  
 (C) 5 AT EA. FRAME JAMB  
 \* SEE GENERAL NOTE #3 & #4.



NOTE:

1. SAME ANCHOR SPACING AT HEAD & SILL
  2. TWO ADDITIONAL ANCHORS REQUIRED AT MEETING RAILS FOR UNITS WITH DP ABOVE +/- 70PSF (4 TOTAL)
- EXT. & INT. FALSE COLONIAL MUNTINS ARE APPLIED W/ SILICONE AND ARE AVAILABLE AS OPTIONAL.

"XO" TESTED WINDOW ELEVATION  
 ("OX" REVERSED)

SERIES-8700 HORIZONTAL SLIDING IMPACT WINDOW - FLANGE FRAME

General Notes:

- 1.) THIS WINDOW SYSTEM IS DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2007 FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ) AND ASTM 1300-98. THIS PRODUCT IS IMPACT RESISTANT. (SHUTTERS NOT REQUIRED)
- 2.) WOOD BUCKS SHALL BE INSTALLED AND ANCHORED SO THAT THE BUILDING RESISTS THE SUPERIMPOSED LOADS IN ACCORDANCE WITH THE REQUIREMENTS OF 2007 F.B.C. & TO BE REVIEWED BY BUILDING OFFICIAL.
- 3.) ANCHORS SHOWN ABOVE ARE AS PER TEST UNITS. ANCHORS ON ALL WINDOW SIZES ARE NOT TO EXCEED THESE MAXIMUM SPACINGS ON CENTER (O.C.), AND AS TABULATED ON SHEET 4.
- 4.) ANCHOR CONDITIONS NOT DESCRIBED IN THESE DRAWING'S ARE TO BE ENGINEERED ON A SITE SPECIFIC BASIS, UNDER SEPARATE APPROVAL AND TO BE REVIEWED BY BUILDING OFFICIAL.
- 5.) WINDOWS ARE QUALIFIED FOR USE WITH SINGLE GLAZE LAMINATED GLASS TYPES TABULATED HEREIN (SEE SHEET #4), AND FOR USE WITH DOUBLE GLAZE LAMINATED INSULATED GLASS TYPES TABULATED HEREIN (SEE SHEET #4).
- 6.) SEE SHEET 3 FOR LOCK DETAILS & OPTIONS.
- 7.) SEE SHEET 4 FOR DESIGN PRESSURES AND SHEET 5 FOR GLASS TYPES.
- 8.) FOR OPTIONAL FRAME INSTALLATION DETAILS SEE SHEET 2.
- 9.) EXT. & INT. FALSE COLONIAL MUNTINS ARE OPTIONAL & AND ARE APPLIED W/ SILICONE
- 10.) WOOD BUCKS IN CONTACT WITH CONCRETE MUST BE PRESSURE TREATED AND ANCHORED (BY OTHERS), PRIOR TO WINDOW INSTALLATION. (SEE SHEET #2 & #3 FOR DETAILS & NOTES) WOOD BUCKS TO BE ANCHORED IN COMPLIANCE WITH THE 2007 FBC CHAPTER 24, SECTION 11.3.3.3.
- 11.) APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE MULLED UNITS.
- 12.) MULLING HORIZONTAL SLIDING WINDOWS WITH OTHER TYPES OF MIAMI-DADE COUNTY APPROVED WINDOWS USING A MIAMI-DADE COUNTY APPROVED MULLION IN BETWEEN ARE ACCEPTABLE BUT THE LOWER DESIGN PRESSURE FROM THE WINDOWS OR MULLION APPROVAL WILL APPLY TO THE ENTIRE MULLED SYSTEM.
- 13.) ALL METAL/STEEL IN CONTACT WITH ALUMINUM OR OTHER DISSIMILAR MATERIALS TO BE PAINTED OR PLATED AND SHALL MEET SECTION 2003.8.4 OF THE 2007 FLORIDA BLDG. CODE.
- 14.) SEE SHEET # 5 FOR MULLION/METAL ATTACHMENT DETAILS, NOTES & OPTIONS.

8501 N.W. 90 ST.  
 MEDLEY, FLORIDA 33166  
 PH No. (305) 696-8660

**LAWSON**  
 INDUSTRIES, INC.

MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

HS-8700 HORIZONTAL ROLLING FLANGE IMPACT WINDOW  
 APPROVED ELEVATIONS, AND GENERAL NOTES

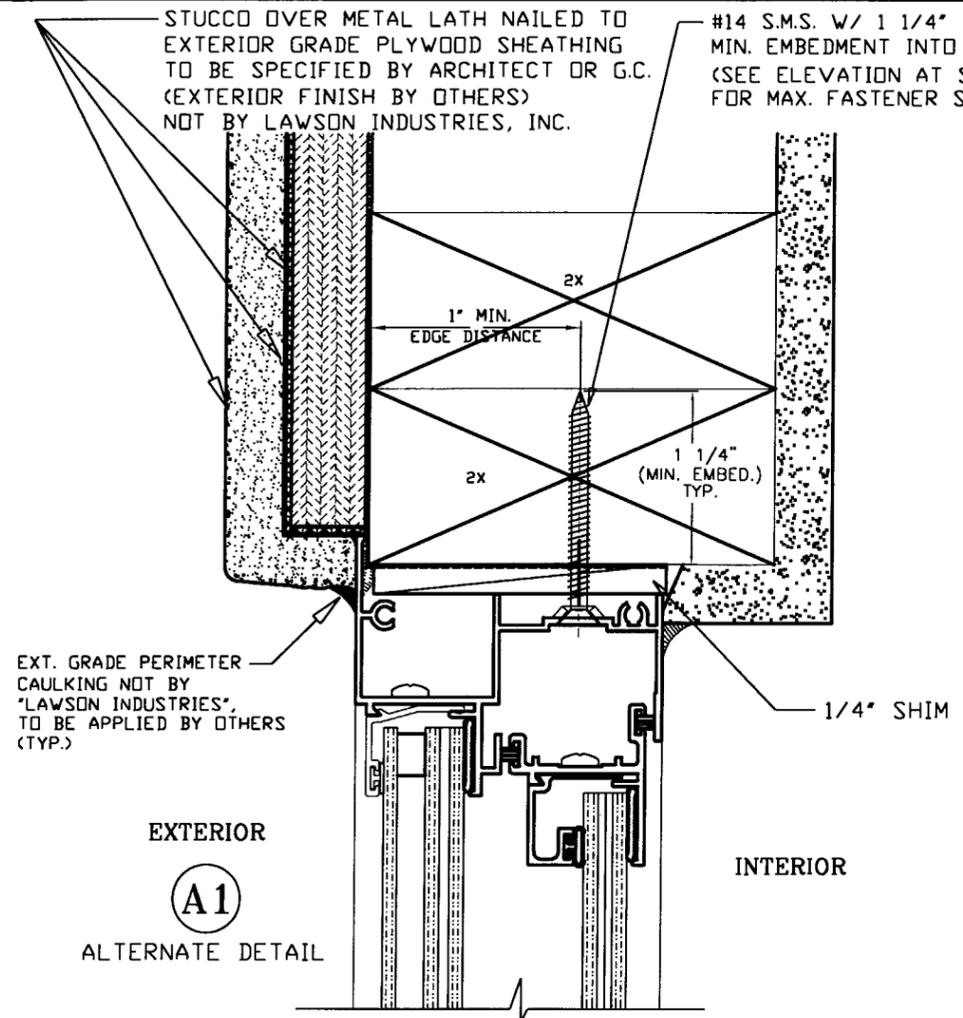
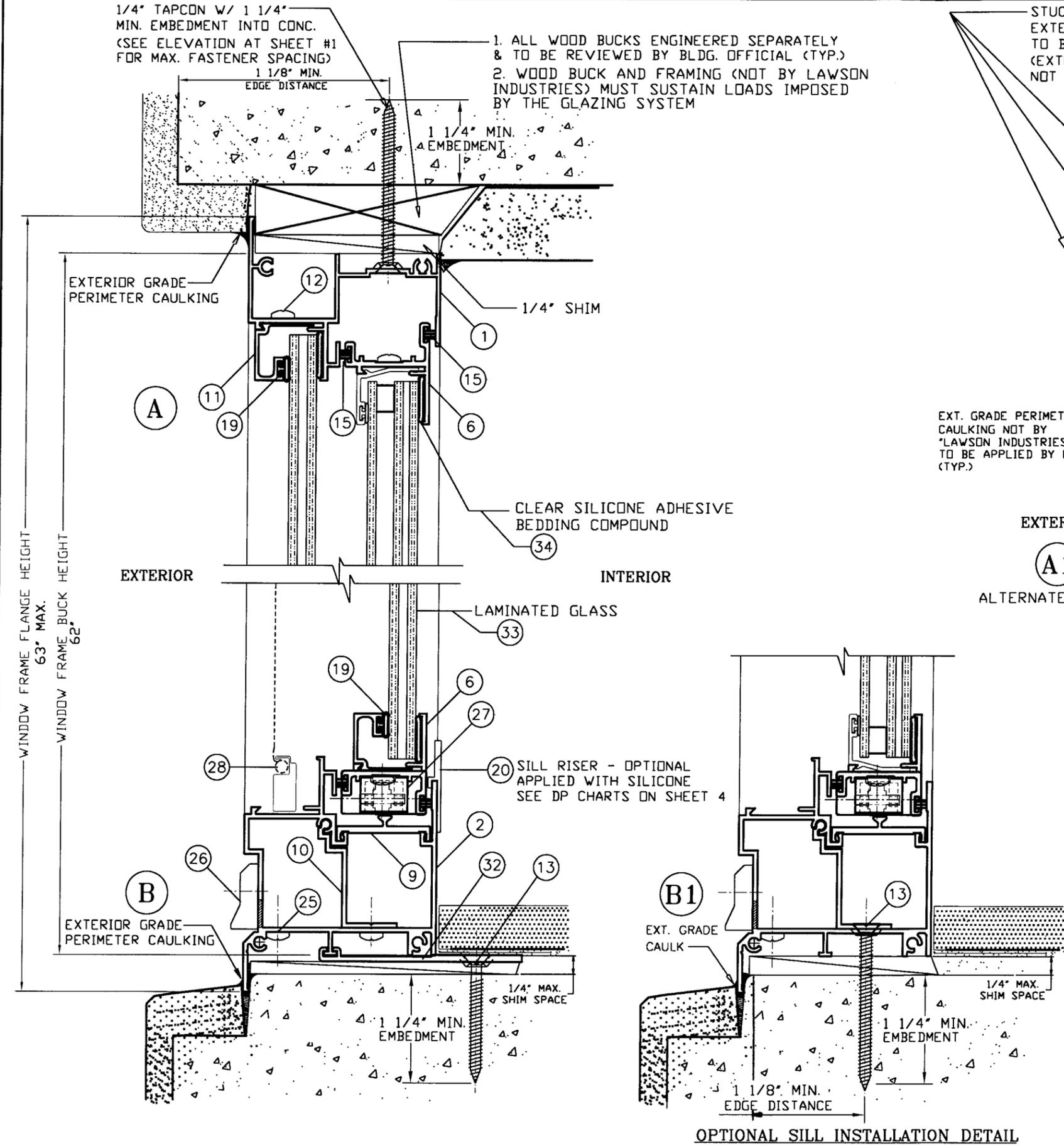
Revision Notes:

Drawn By:	N. ERAZO	Date Drawn:	05/30/09
Revised By:		Date Revised:	
Revision Level:		Scale:	

THOMAS J. SOTOS  
 PROFESSIONAL ENGINEER  
 FL LIC. # 155225

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 09-0706, 05  
 Expiration Date 04/11/2012  
 By: [Signature]  
 Miami Dade Product Control  
 Division

DATE: JAN 19 2010



**WOOD FRAME INSTALLATION DETAIL**

**WINDOW INSTALLATION NOTES:**

1. THE WINDOW FRAME FLANGE TO BE BACK-BEDDED W/ AN EXT. GRADE CAULK THROUGHOUT THE ENTIRE PERIMETER OF FLANGE BY WINDOW INSTALLER (TYP.)
  2. THE EXPOSED EXT. PERIMETER OF THE WINDOW FRAME TO BE SEALED W/ AN APPROVED EXTERIOR GRADE CAULK BY OTHERS (TYP.)
- \* WHEN THE GAP BETWEEN THE WINDOW FRAME AND THE BUCK OR MASONRY IS LESS THAN 1/8", SHIMS ARE NOT REQUIRED.

**ANCHORS NOTE:**  
 ANCHORS TO BE #12 SMS OR W.D. SCREWS INTO WOOD, OR 1/4" TAPCONS or APPROVED CONC. FASTENERS INTO CONC., WITH A MINIMUM OF 1 1/4" PENETRATION INTO WOOD OR CONC. (REFER TO LOAD TABLES FOR QUANTITIES REQUIRED)

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No. **09-0706.05**  
 Expiration Date **03/11/2012**  
 By *[Signature]*  
 Miami Dade Product Control Division

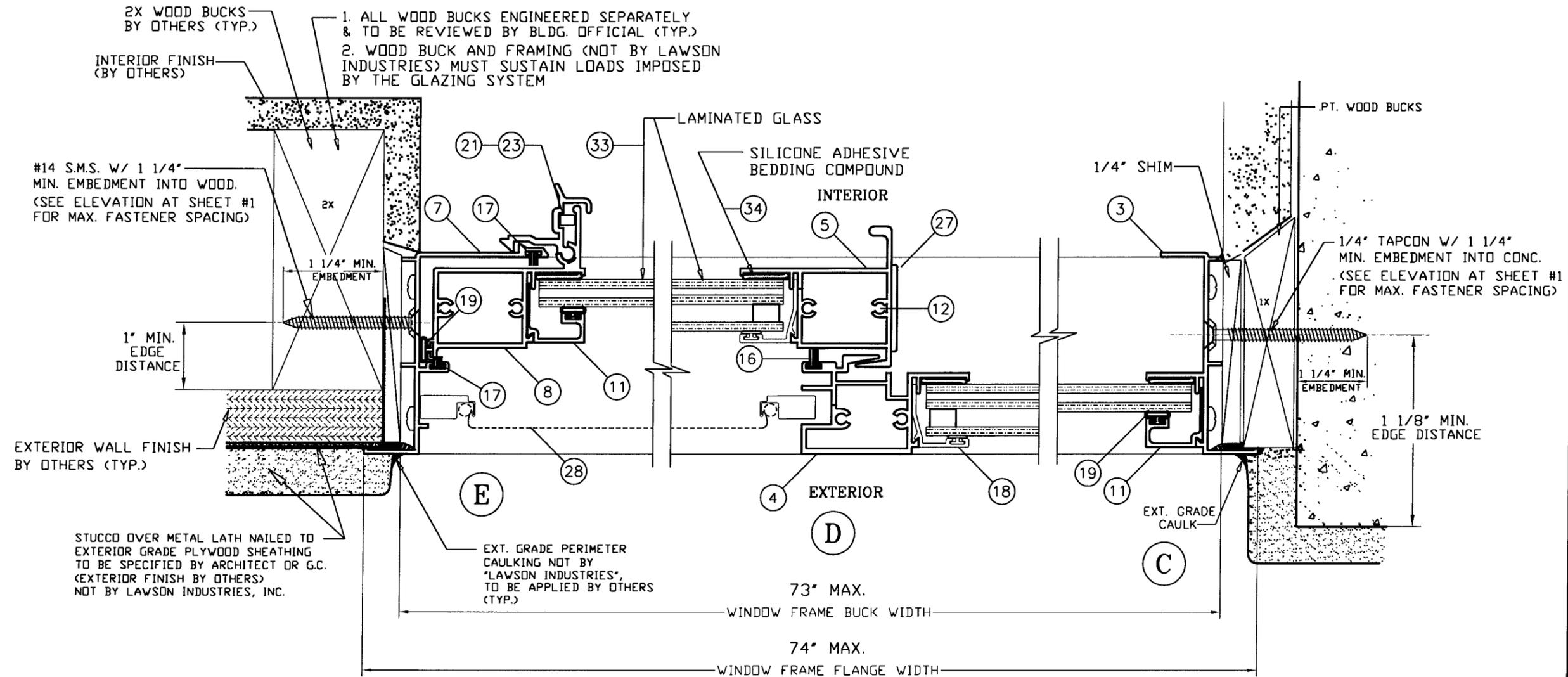
**LAWSON INDUSTRIES, INC.**  
 MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS  
 8501 N.W. 90 ST.  
 MEDLEY, FLORIDA 33166  
 PH No. (305) 696-8660

Product Reference Number: 18700-0901  
 Drawing Number: 18700-0901  
 Sheet: 2 OF 6  
 Revision #:

Revision Note:	
Drawn By:	N. ERAZO
Date Drawn:	05/30/09
Revised By:	
Date Revised:	
Revision Level:	
Scale:	

THOMAS J. SOTOS  
 PROFESSIONAL ENGINEER  
 FL LIC # 55225

DATE **JAN 9 2010**



2X WOOD BUCKS BY OTHERS (TYP.)  
 INTERIOR FINISH (BY OTHERS)

1. ALL WOOD BUCKS ENGINEERED SEPARATELY & TO BE REVIEWED BY BLDG. OFFICIAL (TYP.)  
 2. WOOD BUCK AND FRAMING (NOT BY LAWSON INDUSTRIES) MUST SUSTAIN LOADS IMPOSED BY THE GLAZING SYSTEM

#14 S.M.S. W/ 1 1/4\"/>

1\"/>

EXTERIOR WALL FINISH BY OTHERS (TYP.)

STUCCO OVER METAL LATH NAILED TO EXTERIOR GRADE PLYWOOD SHEATHING TO BE SPECIFIED BY ARCHITECT OR G.C. (EXTERIOR FINISH BY OTHERS) NOT BY LAWSON INDUSTRIES, INC.

EXT. GRADE PERIMETER CAULKING NOT BY "LAWSON INDUSTRIES"; TO BE APPLIED BY OTHERS (TYP.)

73\"/>

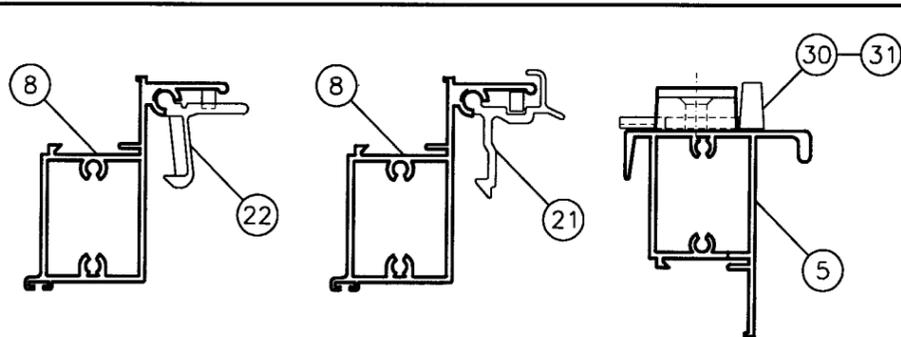
WINDOW FRAME BUCK WIDTH

74\"/>

WINDOW FRAME FLANGE WIDTH

1/4\"/>

1 1/8\"/>



**LOCK (LATCH AND SWEEP) OPTIONS**

- BOTH EXTRUDED ALUMINUM AND PLASTIC LIFT HANDLE LOCKS ARE QUALIFIED FOR USE ON ALL WINDOWS.
- BOTH DIE CAST AND NYLON CAM LOCKS ARE QUALIFIED FOR USE ON ALL WINDOWS.
- TWO (2) LOCKS ARE REQUIRED PER EACH VENT.

**WINDOW INSTALLATION NOTES:**

- THE WINDOW FRAME FLANGE TO BE BACK-BEDDED W/ AN EXT. GRADE CAULK THROUGHOUT THE ENTIRE PERIMETER OF FLANGE BY WINDOW INSTALLER (TYP.)
- THE EXPOSED EXT. PERIMETER OF THE WINDOW FRAME TO BE SEALED W/ AN APPROVED EXTERIOR GRADE CAULK BY OTHERS (TYP.)

\* WHEN THE GAP BETWEEN THE WINDOW FRAME AND THE BUCK OR MASONRY IS LESS THAN 1/8", SHIMS ARE NOT REQUIRED.

**ANCHORS NOTE:**

ANCHORS TO BE #12 SMS OR WD. SCREWS INTO WOOD, OR 1/4\"/>

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No. 09-0706.05  
 Expiration Date 02/11/2012  
 By *[Signature]*  
 Miami Dade Product Control Division

8501 N.W. 90 ST.  
 MEDLEY, FLORIDA 33166  
 PH No. (305) 696-8660

**LAWSON INDUSTRIES, INC.**

MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

HS-8700 HORIZONTAL ROLLING FLANGE IMPACT WINDOW

CROSS SECTION DETAILS, LOCK OPTIONS AND FRAME INSTALLATION DETAIL

Product Reference Number: L8700-0901  
 Drawing Number: L8700-0901  
 Sheet: 3 OF 6  
 Revision #:

Revision Notes:

Drawn By:	N. ERAZO	Date Drawn:	05/30/09
Revised By:		Date Revised:	
Revision Level:		Scale:	

THOMAS J. SOTOS  
 PROFESSIONAL ENGINEER  
 FL P.C. # 55225

DATE: **JAN 19 2010**

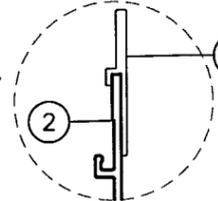
**DESIGN LOAD CAPACITY (PSF) - OX or XO WINDOWS**

+ / - Pressures (psf)

WINDOW		# Jamb Anchors	# H & S Anchors	Glass Type "A" (* 2)		Glass Type "B" (* 2)		Glass Type "C" (* 2)		Glass Type "D" (* 2)		Glass Type "E" (* 3)		Glass Type "F" (* 3)	
WIDTH	HEIGHT			+ psf	- psf										
24	24	3	3	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
36	24	3	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
48	24	3	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
60	24	3	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
72	24	3	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
24	36	3	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
36	36	3	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
48	36	3	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
60	36	3	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
72	36	3	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
24	48	4	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
36	48	4	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
48	48	4	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
60	48	4	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
72	48	4	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
24	60	5	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
36	60	5	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
48	60	5	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
60	60	5	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
72	60	5	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	-	-	-	-
26.5	26	3	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
37	26	3	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
53.125	26	3	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
74	26	3	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
26.5	38.375	4	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
37	38.375	4	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
53.125	38.375	4	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
74	38.375	4	8	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
26.5	50.625	5	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
37	50.625	5	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
53.125	50.625	5	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
74	50.625	5	8	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
26.5	58	5	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
37	58	5	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
53.125	58	5	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
74	58	5	8	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
26.5	63	6	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
37	63	6	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
53.125	63	6	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
74	63	6	8	65.0	65.0	65.0	65.0	70.0	70.0	-	-	-	-	-	-

- Notes (\*):**
- SEE SHEET 5 FOR GLAZING TYPES, DETAILS & SILICONE OPTIONS.
  - STANDARD SILL USED ON WINDOWS WITH +70.0 DP AND BELOW (WINDOWS WITH GLASS TYPES "A, B, C, & D")
  - SILL WITH RISER ADAPTER ARE FOR WINDOWS ABOVE +70.0 DP (WINDOWS WITH GLASS TYPES "E, & F") AND +80.0 DP MAX. ADDITIONAL ANCHORS REQUIRED AT FRAME HEAD & SILL ON WINDOWS WITH DP ABOVE 70.0. (SEE ELEVATION AT SHEET 1 OF 6)

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No. 09-0706.05  
 Expiration Date 04/11/2012  
 By: *[Signature]*  
 Miami Code Product Control Division



② SILL RISER - OPTIONAL APPLIED WITH SILICONE FOR DP ABOVE +70.0 PSF (+80.0 DP MAX.)

**LAWSON**  
INDUSTRIES, INC.

8501 N.W. 90 ST.  
MEDLEY, FLORIDA 33166  
PH No. (305) 696-8660

MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

HS-8700 HORIZONTAL ROLLING FLANGE IMPACT WINDOW  
DESIGN LOAD CHART WITH GLASS OPTIONS

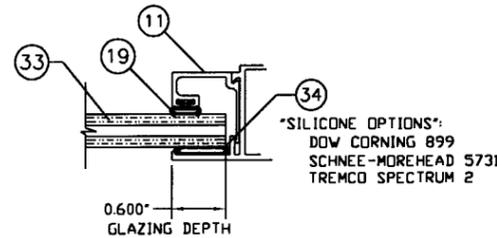
Revision Notes:

Drawn By: N. ERAZO	Date Drawn: 05/30/09
Revised By:	Date Revised:
Revision Level:	Scale:

THOMAS J. SOTOS  
PROFESSIONAL ENGINEER  
FL LIC. # 55225

DATE: **JUN 19 2010**

Product Reference Number: L8700-0901  
 Drawing Number: L8700-0901  
 Sheet: 4 OF 6  
 Revision #:



**LAMINATED GLASS COMPOSITION - TYPE B**

ITEM	GLASS DESCRIPTION	DETAIL	LAMINATE DESCRIPTION
1	1/8" ANNEALED GLASS		SAFLEX/KEEPSAFE By: "SOLUTIA"
2	0.090" PLASTIC INTERLAYER		
3	1/8" ANNEALED GLASS		

**LAMINATED GLASS COMPOSITION - TYPE D**

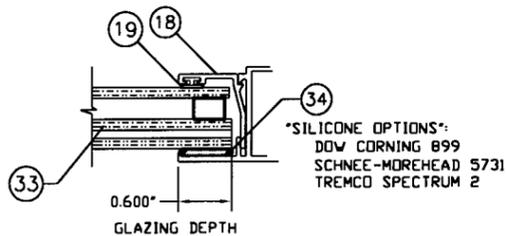
ITEM	GLASS DESCRIPTION	DETAIL	LAMINATE DESCRIPTION
1	1/8" HEAT-STRENGTHENED GLASS		BUTACITE PVB By: "DUPONT"
2	0.090" PLASTIC INTERLAYER		
3	1/8" HEAT-STRENGTHENED GLASS		

**LAMINATED GLASS COMPOSITION - TYPE E**

ITEM	GLASS DESCRIPTION	DETAIL	LAMINATE DESCRIPTION
1	1/8" HEAT-STRENGTHENED GLASS		SAFLEX/KEEPSAFE By: "SOLUTIA"
2	0.090" PLASTIC INTERLAYER		
3	1/8" HEAT-STRENGTHENED GLASS		

**LAMINATED GLASS COMPOSITION - TYPE F**

ITEM	GLASS DESCRIPTION	DETAIL	LAMINATE DESCRIPTION
1	1/8" ANNEALED GLASS		BUTACITE PVB By: "DUPONT"
2	0.090" PLASTIC INTERLAYER		
3	1/8" ANNEALED GLASS		



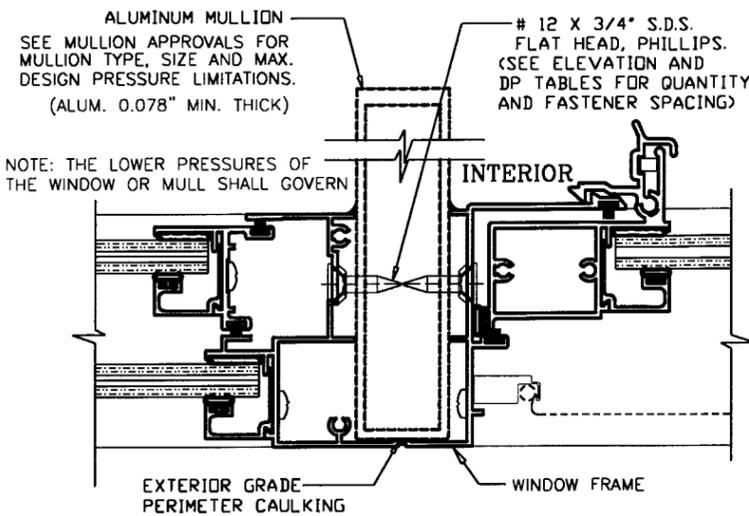
**INSULATED LAMINATED GLASS COMPOSITION TYPE A**

ITEM	GLASS DESCRIPTION	DETAIL	LAMINATE DESCRIPTION
1	1/8" ANNEALED GLASS		SAFLEX PVB By: "SOLUTIA"
2	0.090" PLASTIC INTERLAYER		
3	1/8" ANNEALED GLASS		
4	1/4" INSULATED AIR SPACE		
5	1/8" ANNEALED GLASS		

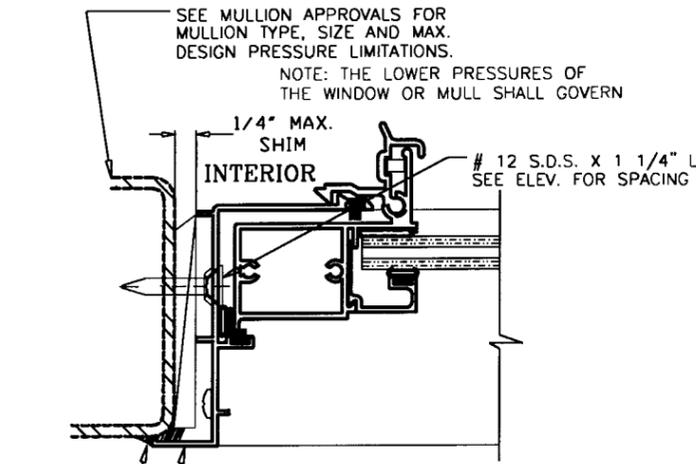
**INSULATED LAMINATED GLASS COMPOSITION TYPE C**

ITEM	GLASS DESCRIPTION	DETAIL	LAMINATE DESCRIPTION
1	1/8" ANNEALED GLASS		PVB By: "SOLUTIA"
2	0.090" PLASTIC INTERLAYER		
3	1/8" ANNEALED GLASS		
4	1/4" INSULATED AIR SPACE		
5	1/8" ANNEALED GLASS		

**GLAZING DETAILS AND OPTIONS**



**E2** FRAME MULLING DETAIL



**E1** METAL STRUCTURE ATTACHMENT DETAIL

- NOTE:**
- ALL STEEL IN CONTACT WITH ALUM. TO BE PAINTED OR PLATED.
  - METAL STRUCTURES:
    - A) STEEL : F<sub>y</sub> = 36 KSI MIN. (STEEL 18 GA. MIN. THICK - 0.048")
    - B) ALUMINUM : 6063-T5 MIN. (ALUM. 0.078" MIN. THICK)

HS-8700 FLANGE FRAME WINDOW BILL OF MATERIALS				
ITEM #	PART #	REQD.	DESCRIPTION	REMARKS
1	L-7703	1	FRAME HEAD	6063-T6 ALUMINUM
2	L-8701	1	FRAME SILL	6063-T6 ALUMINUM
3	L-7701	1	FRAME FXD. JAMB	6063-T6 ALUMINUM
4	L-7704	1	FRAME FIXED MEETING RAIL	6063-T6 ALUMINUM
5	L-7705	1	VENT MEETING RAIL	6063-T6 ALUMINUM
6	L-7707	1	VENT TOP/BOTTOM RAIL	6063-T6 ALUMINUM
7	L-8703	1	FRAME VENT JAMB	6063-T6 ALUMINUM
8	L-7706	1	VENT JAMB LATCH RAIL	6063-T6 ALUMINUM
9	L-8702	1	FRAME SILL TRACK	6063-T5 ALUMINUM
10	L-8705	1	FRAME SILL RETAINING CLIP	6063-T5 ALUMINUM
11	L-7708	AS REQ'D.	GLAZING BEAD ( 3/8" )	6063-T5 ALUMINUM
12	FS-006	AS REQ'D.	FRAME ASSEMBLY SCREWS	#8 X 3/4" P.H. PHILLIPS
13	FS-040	AS REQ'D.	INSTALLATION SCREWS	#14 SMS F.H./PHIL.
14	*	AS REQ'D.	COLONIAL FALSE MUNTIN	ALUMINUM
15	PWS-003	AS REQ'D.	FIN SEAL WEATHERSTRIP	.187" w x .230" h
16	PWS-005	AS REQ'D.	FIN SEAL WEATHERSTRIP	.187" w x .350" h
17	PWS-009	AS REQ'D.	FIN SEAL WEATHERSTRIP	.187" w x .310" h
18	L-7711	AS REQ'D.	GLAZING BEAD ( INSULATED )	6063-T5 ALUMINUM
19	L-7531	AS REQ'D.	BEAD VINYL BULB	1/4" DIA. BULB #3033
20	L-8706	AS REQ'D.	SILL RISER ADAPTER	6063-T5 ALUM.- OPTIONAL
21	L-7539	2	VENT EXTRUDED SPRING LATCH	6063-T5 ALUMINUM
22	HC-057-1	2	VENT MOLDED SPRING LATCH	MOLDED NYLON
23	L-7523	1 x LATCH	LATCH SPRING	STAINLESS STEEL
24	*	2	SILL/JAMB JOINT GASKET	1/16" CLOSED CELL FOAM
25	FS-041	2	SILL RAIL ASSEMBLY SCREW	#8 X 2 1/4" P.H./PHIL.
26	HC-044-1	2	WEEP FLAP & BAFFLE	*
27	HC-040-1	2	SASH ROLLER & HOUSING	*
28	HC-026-1	1	SCREEN FRAME & MESH	*
29	*	1	ATTACHMENT SCREW @ CLIP	#8 X 5/8" S.D.S.
30	HC-058-1	2	VENT SWEEP LATCH	MOLDED NYLON
31	HC-059-1	2	VENT SWEEP LATCH	DIE CAST METAL
32	*	1 x Anchor	FRAME SILL ANCHOR CLIP	6063-T5 ALUMINUM
33	*	2	LAMINATED GLASS	See Detail @ sheet 5 of 6
34	*	AS REQ'D.	GLAZING SILICONE	See Detail @ sheet 5 of 6
35	SM-5504	AS REQ'D.	JOINT SEALANT	*
36	*	AS REQ'D.	PERIMETER ACRYLIC CAULK	OSI POLYSEAMSEAL

Revision Notes:

THOMAS J. SOTOS  
PROFESSIONAL ENGINEER  
FL LIC. # 55225

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No **09-0706.05**  
Expiration Date **04/11/2012**  
By *[Signature]*  
Miami Dade Product Control  
Division

**JAN 19 2010**

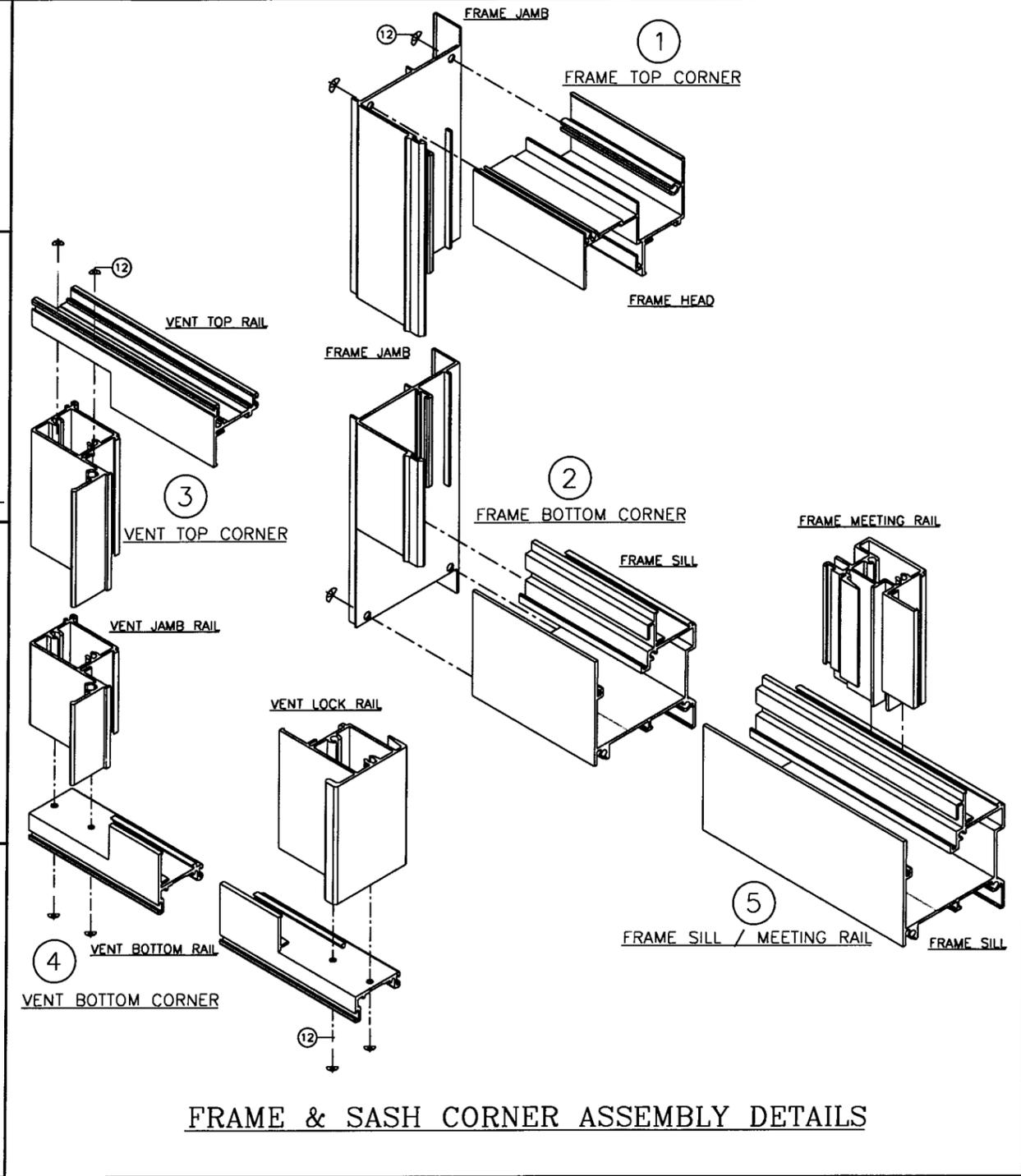
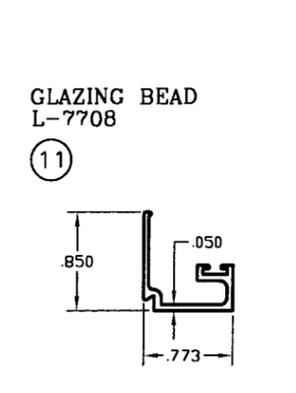
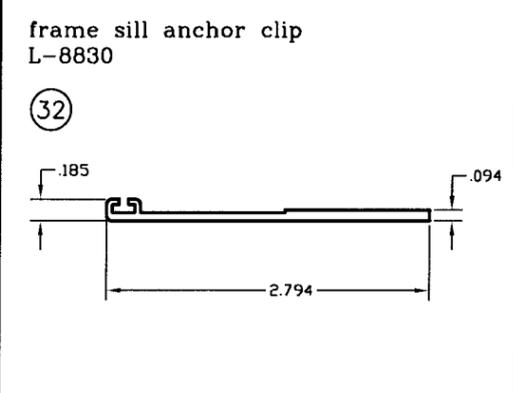
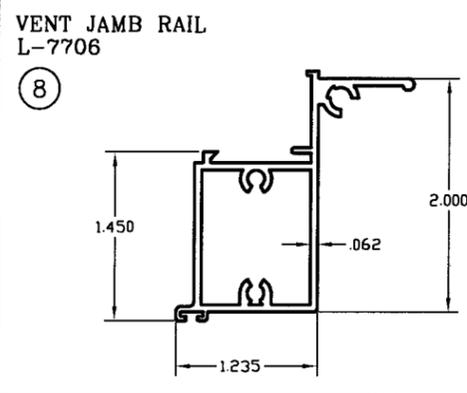
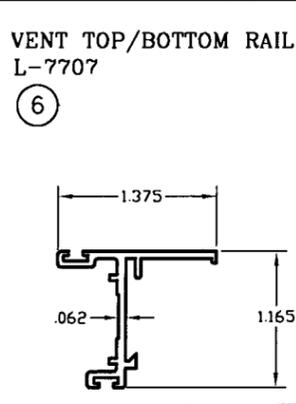
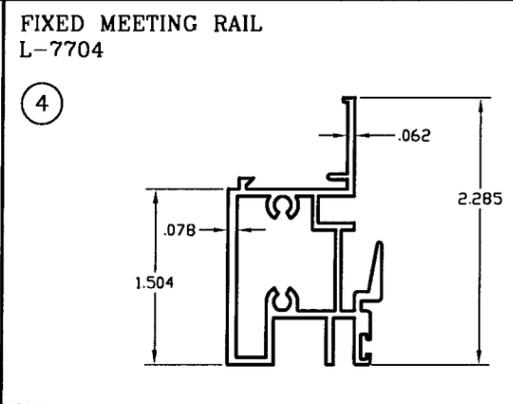
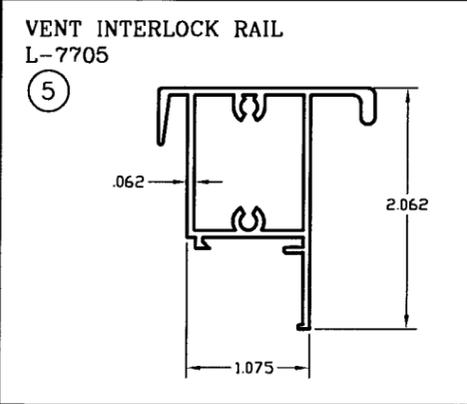
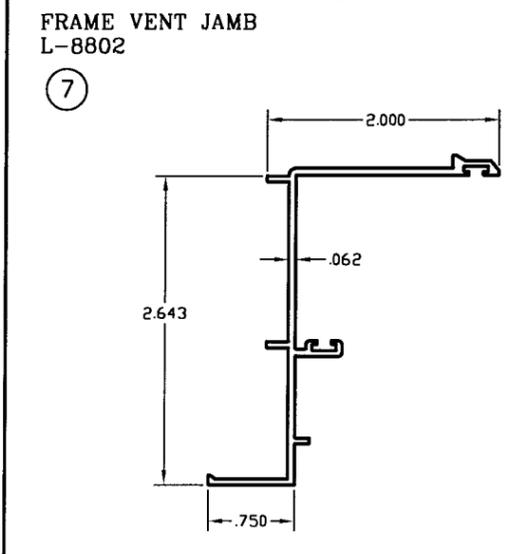
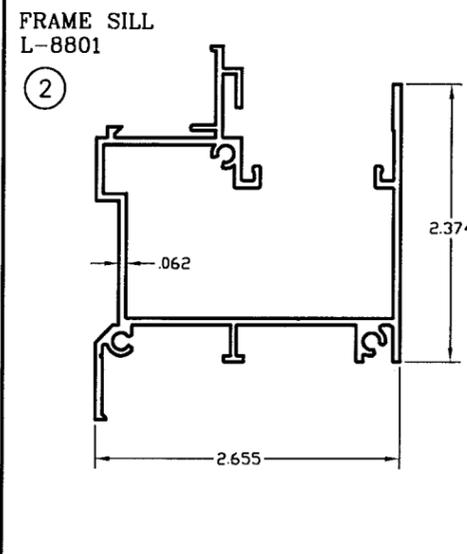
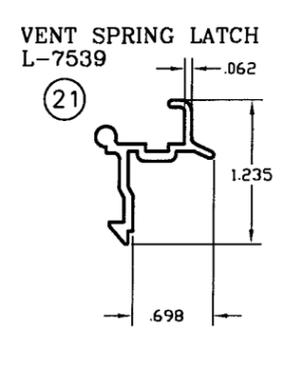
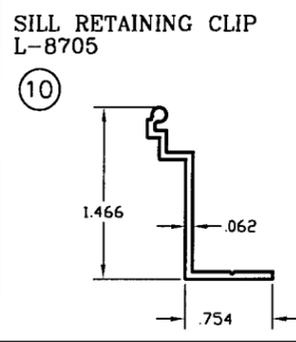
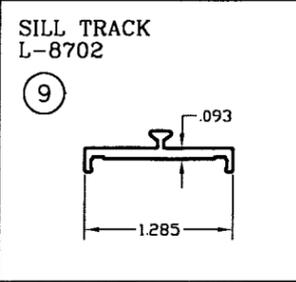
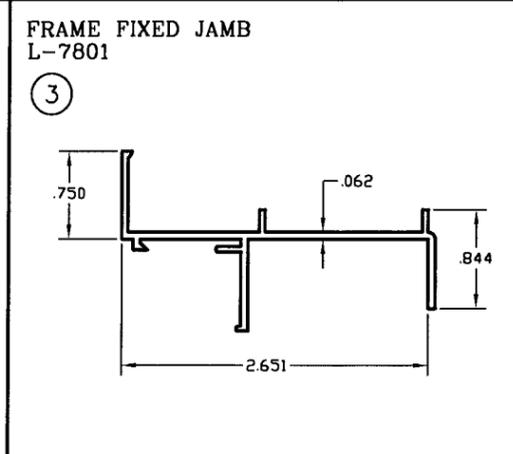
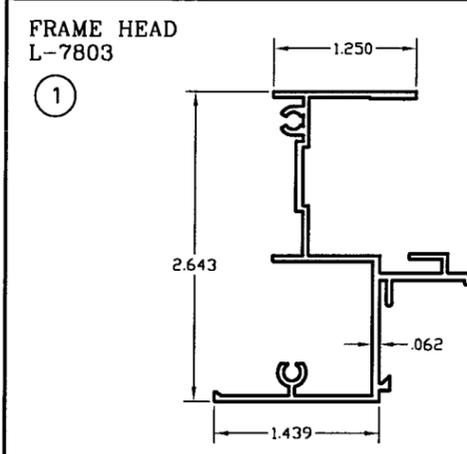
Drawn By: N. ERAZO	Date Drawn: 05/30/09
Revised By:	Date Revised:
Revision Level:	Scale:

**LAWSON**  
INDUSTRIES, INC.

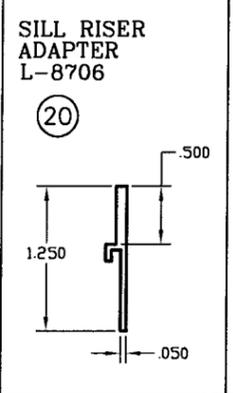
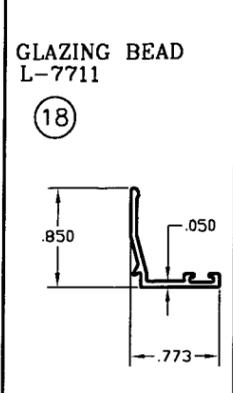
MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

SERIES-7700 SINGLE HUNG FLANGE FRAME IMPACT WINDOW  
GLAZING DETAILS, MULLION DETAILS & BILL OF MATERIALS

8501 N.W. 90 ST.  
MEDLEY, FLORIDA 33166  
PH No. (305) 696-8660



**FRAME & SASH CORNER ASSEMBLY DETAILS**



PRODUCT REVISED  
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Building Code  
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Expiration Date 04/11/2012  
By *[Signature]*  
Miami Dade Product Control  
Division

**LAWSON INDUSTRIES, INC.**  
MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS  
8501 N.W. 90 ST.  
MEDLEY, FLORIDA 33166  
PH No. (305) 696-8660

**HS-8800 HORIZONTAL ROLLING FIN IMPACT WINDOW**  
EXTRUSION DETAILS & CORNER ASSEMBLY DETAILS

Revision Notes:  
 Drawn By: N. ERAZO  
 Date Drawn: 05/30/09  
 Revised By:  
 Date Revised:  
 Revision Level:  
 Scale:  
 Drawing Number: L8700-0901  
 Sheet: 6 OF 6  
 Revision #:

THOMAS J. SOTOS  
PROFESSIONAL ENGINEER  
FL LIC. # 55225

**JAN 19 2010**  
DATE