



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

**NOTICE OF ACCEPTANCE (NOA)**

Glasswall, LLC  
3550 N.W. 49 Street  
Miami, FL 33142

**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 "105L" Outswing Aluminum Casement Window – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. 105L-LM, titled "Series '105L' Outswing Alum. Casement Window (LMI)", sheets 1 through 7 of 7, dated 01/21/13, prepared by manufacturer, signed and sealed by Kelvyn Whitfield, 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# 10-0825.12 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*  
2/11/13

NOA No. 12-0821.20  
Expiration Date: April 08, 2014  
Approval Date: February 07, 2013  
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **105L-LM**, titled "Series '105L' Outswing Alum. Casement Window (LMI)", sheets 1 through 7 of 7, dated 01/21/13, prepared by manufacturer, signed and sealed by Kelvyn Whitfield, P.E.

**B. TESTS**

1. Test reports on:
  - 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  - 2) Large Missile Impact Test per FBC, TAS 201-94
  - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with marked-up drawings and installation diagram of a series 105L outswing aluminum casement window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-6985**, dated 07/22/12, signed and sealed by Marlin D. Brinson, 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 202-94along with marked-up drawings and installation diagram of an aluminum projected/casement window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-3957** and **FTL-3958**, dated 11/10/03, signed and sealed by Edmundo J. Largaespada, P.E.  
*(Submitted under previous NOA No.04-0126.02)*

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2010, dated 01/18/13 and 01/28/13, prepared, signed, sealed and by Kelvyn Whitfield, 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.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 12-0821.20  
Expiration Date: April 08, 2014  
Approval Date: February 07, 2013

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC-2010**, dated January 18, 2013, prepared, signed and sealed by Kelvyn Whitfield, P.E.
2. Statement letter of no financial interest, dated January 18, 2013, prepared, signed and sealed by Kelvyn Whitfield, P.E.
3. Testing program email by Product Control, dated June 26, 2012, issued by Manuel Perez, P.E.
4. Laboratory compliance letter for Test Reports No. **FTL-3957** and **FTL-3958**, issued by Fenestration Testing Laboratory, Inc., dated 11/10/03, signed and sealed by Edmundo J. Largaespada, P.E.  
*(Submitted under previous NOA No. 04-0126.02)*

**G. OTHERS**

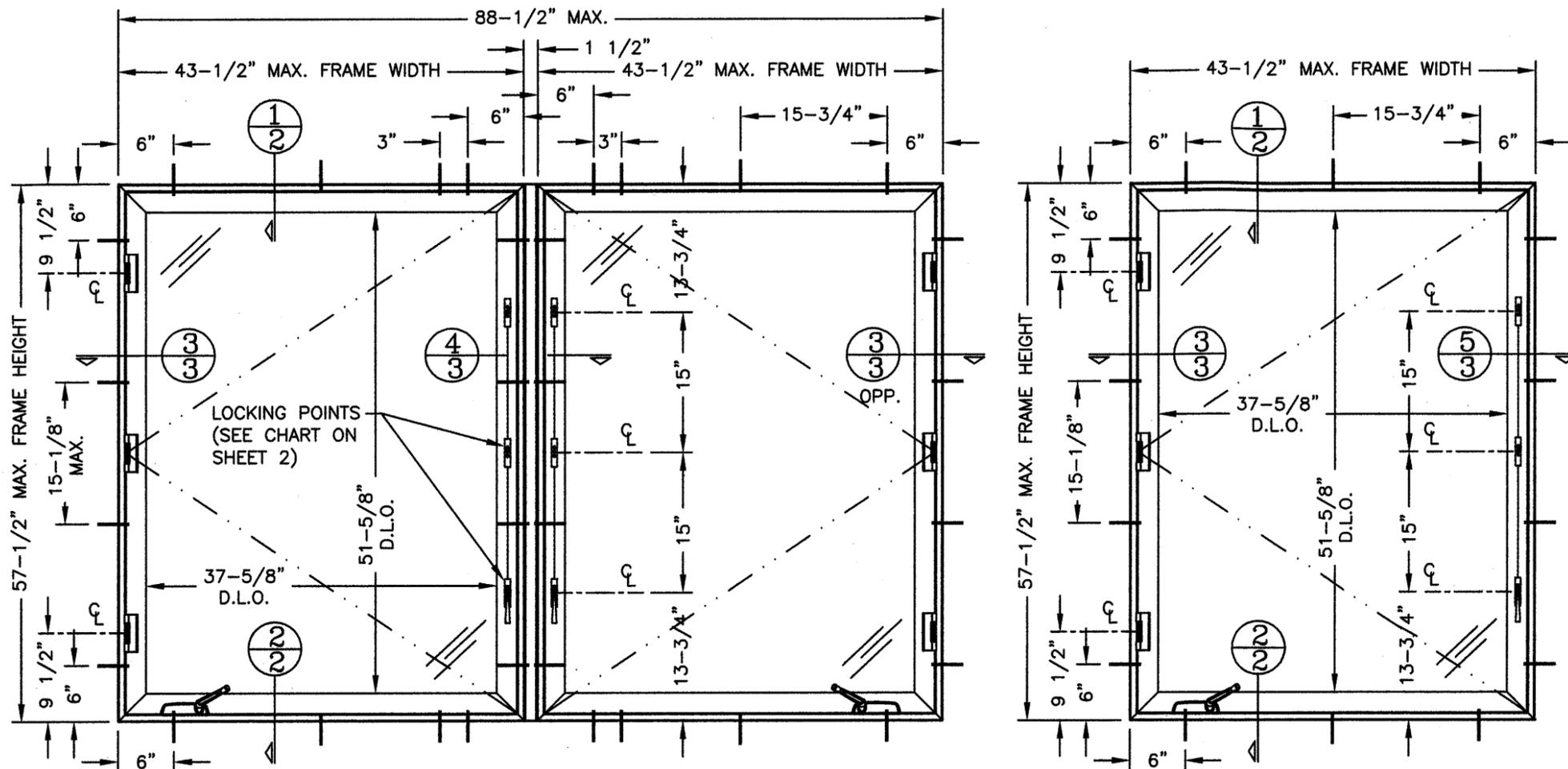
1. Notice of Acceptance No. **10-0825.12**, issued to Glasswall, LLC for their Series "105L" Aluminum Outswing Casement – L.M.I.", approved on 12/30/10 and expiring on 04/08/14.

  
Manuel Perez, P.E.  
Product Control Examiner

NOA No. 12-0821.20

Expiration Date: April 08, 2014

Approval Date: February 07, 2013



**SERIES "105L" OUTSWING ALUM. CASEMENT WINDOW -LMI**

(TYPICAL ELEVATIONS VIEWED FROM EXTERIOR)

SCALE: 3/4" = 12"

**HARDWARE PACKAGE**

- ALUMINUM BUTT HINGE TYPE
- SINGLE LOCK HANDLE AND KEEPER SYSTEM WITH CONNECTING BAR
- FACE MOUNT SINGLE ARM OPERATOR

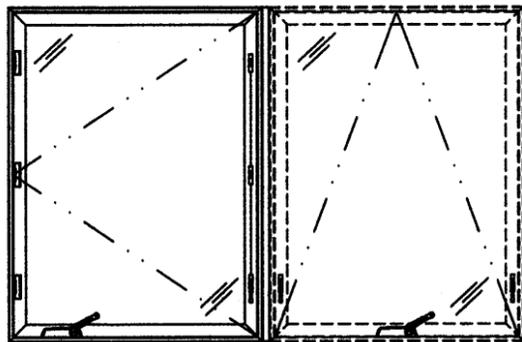
**GLASS**

9/16" (NOMINAL) HEAT STRENGTHENED LAMINATED WITH DUPONT SENTRYGLAS INTERLAYER

MAXIMUM DESIGN PRESSURE	
EXTERIOR (+)	INTERIOR (-)
100.0 PSF	100.0 PSF

**THIS PRODUCT IS RATED LARGE MISSILE IMPACT,  
HURRICANE PROTECTION SYSTEM (SHUTTERS) ARE NOT REQUIRED**

SERIES 105L CASEMENT WINDOW CAN BE MULLED WITH  
SERIES 105L PROJECTED WINDOW (SEE SEPARATE NOA),  
AS MANUFACTURED BY GLASSWALL, LLC.



SERIES 105L  
CASEMENT WINDOW

SERIES 105L  
PROJECTED WINDOW

**DESIGN NOTES**

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

SHIMS SHALL BE MADE FROM MATERIAL CAPABLE OF SUSTAINING APPLICABLE LOADS, LOCATED AND APPLIED IN A THICKNESS CAPABLE OF SUSTAINING THESE LOADS (REFERENCE FBC, SECTIONS 1714.5.4.2 AND 1714.5.4.3)

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS.  
ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.

**ANCHOR NOTES**

5/16" DIA. ULTRACON BY ELCO

DIRECTLY INTO CONCRETE OR GROUT FILLED MASONRY BLOCK 1-3/4" MIN. EMBED. INTO CONCRETE OR GROUT FILLED MASONRY BLOCK

#14 SMS OR SELF-DRILLING SCREWS:

INTO METAL STRUCTURES:

ALUMINUM: 1/8" THICKNESS MIN. (ALLOY 6063-T5 MIN.)

(DISSIMILAR MATERIALS IN CONTACT TO BE GALVANIZED OR PAINTED WITH ANTI-CORROSIVE PAINT)

**EDGE DISTANCE:**

INTO CONCRETE OR GROUT FILLED MASONRY BLOCK, 2-1/2" MINIMUM.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3500 PSI MIN.

**SEALANTS**

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SILICONE SEALANT.

SET ALL CORNER LOCK ANGLES AT FRAME AND VENT IN BED OF SILICONE SEALANT.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 13-0821-20  
Expiration Date April 8, 2014  
By *Maurice*  
Miami Dade Product Control

KELVYN WHITFIELD, P.E.  
FLORIDA No. 24140  
1002 N.E. 116 STREET  
MIAMI, FL 33161-6744  
(305) 895-1653

*[Signature]*  
01/30/13

**GLASSWALL, LLC**

3550 N.W. 49TH STREET, MIAMI, FL 33142  
PH: (305) 638-5151 FAX: (305) 638-5158

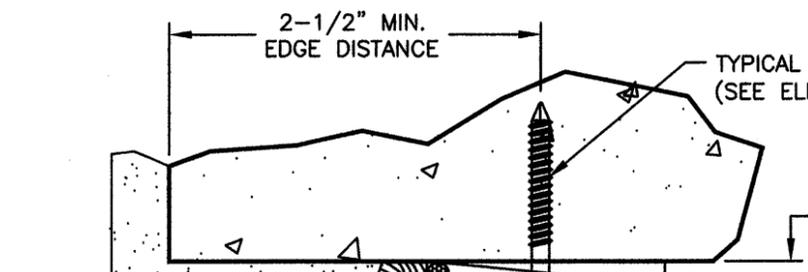
DWG. TITLE: TYP. ELEV./ANCHOR NOTES / ANCHOR LAYOUT

SERIES "105L" OUTSWING  
ALUM. CASEMENT WINDOW (LMI)

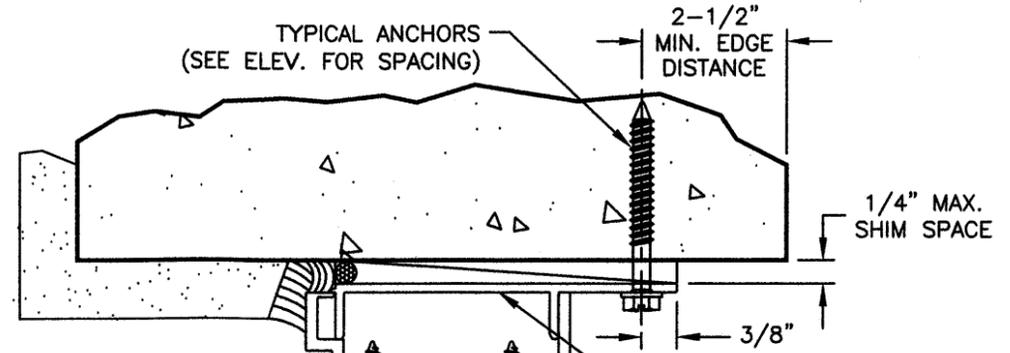
REVISIONS	DESCRIPTION

DATE: 01/21/2013	SCALE: AS SHOWN	DWG. BY: RP	CHK. BY:
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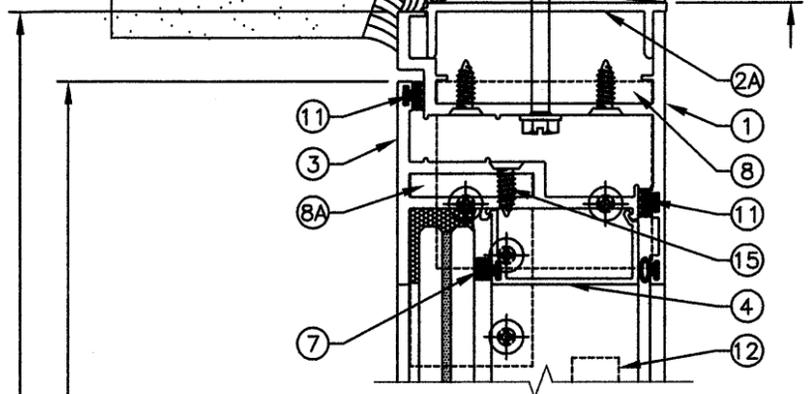
DRAWING No.:  
**105L-LM**  
SHEET 1 OF 7



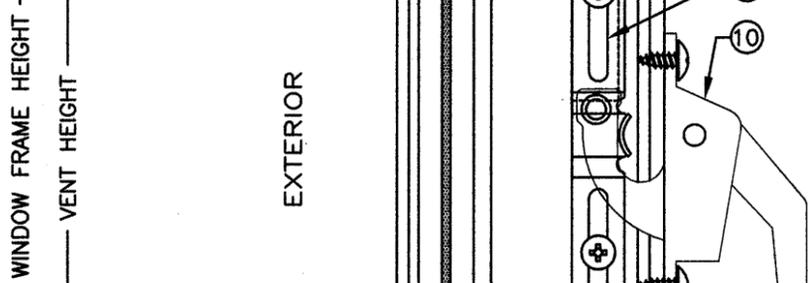
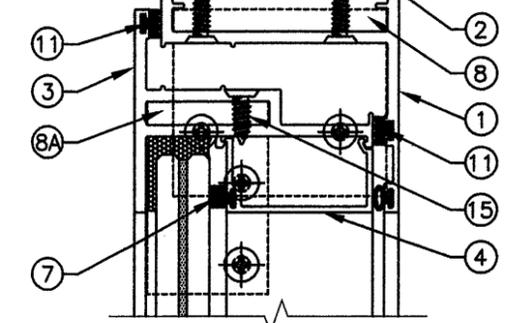
1 HEAD DETAIL  
2 SCALE: 1:2



"F" CLIP MOUNT

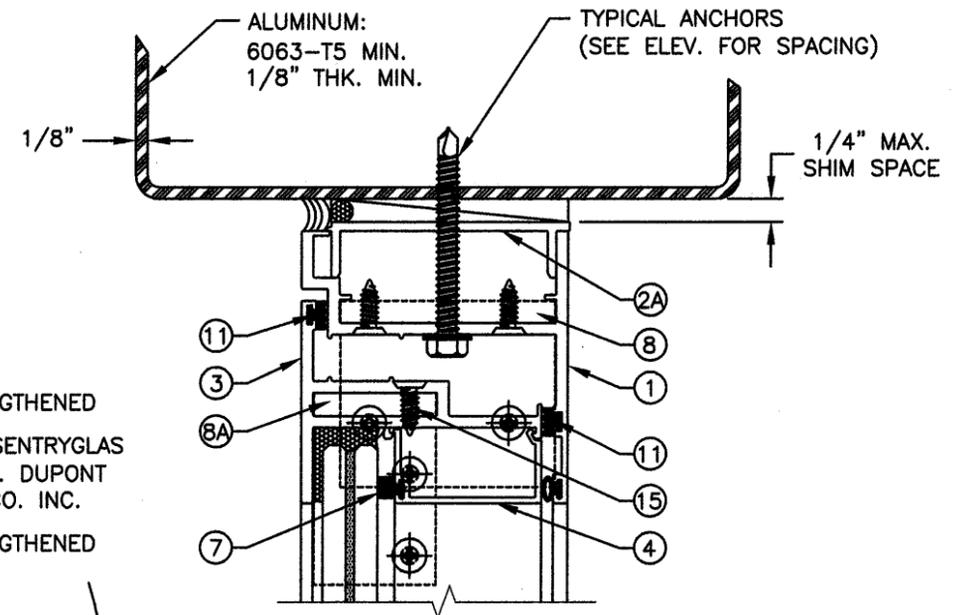


DIRECT MOUNT

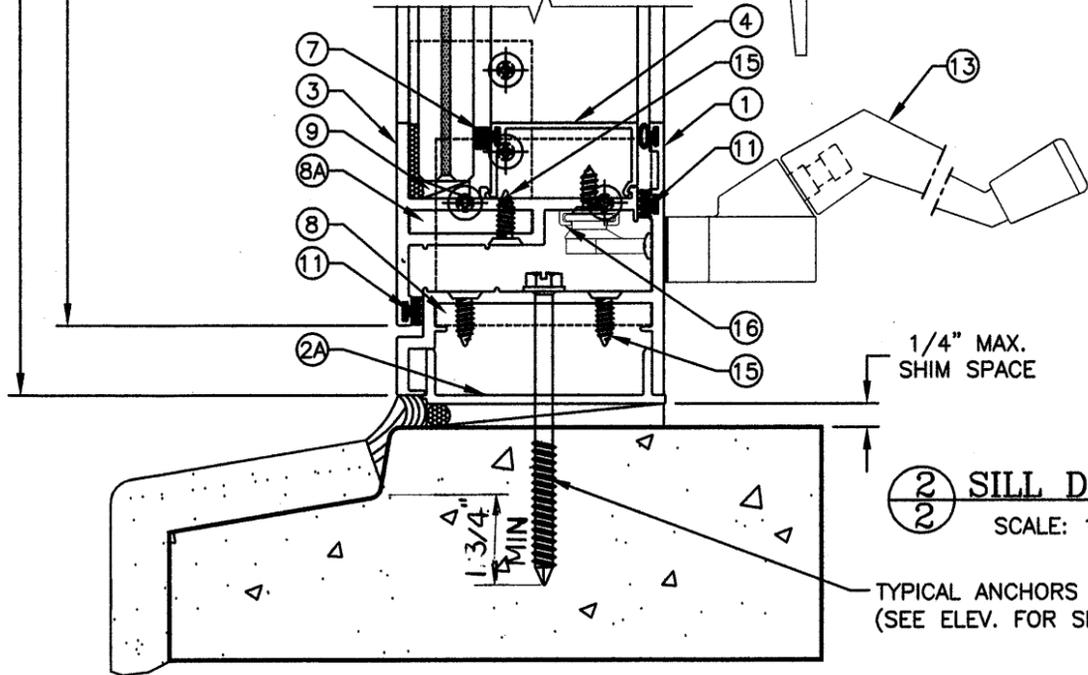


EXTERIOR

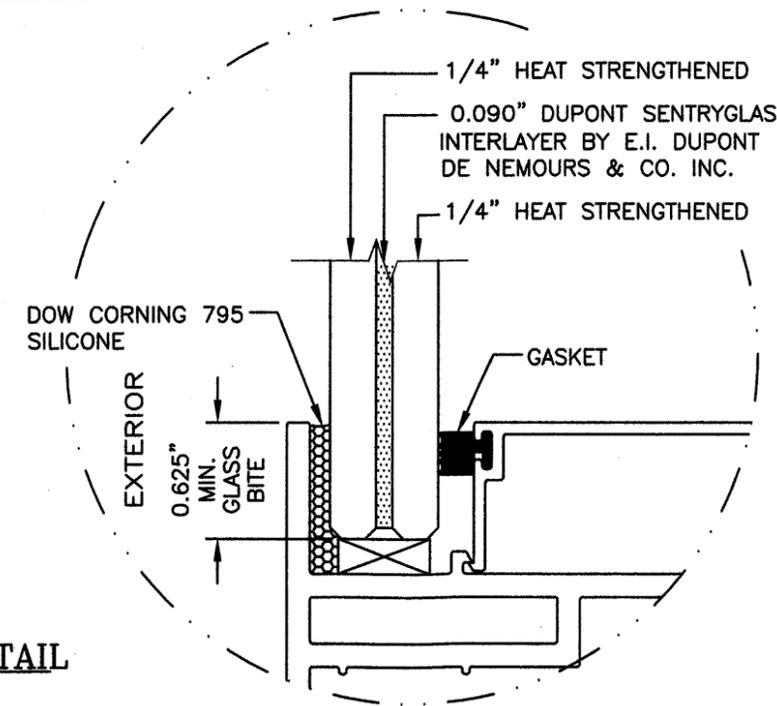
WINDOW HEIGHT	LOCKING POINTS
UP TO 36" HEIGHT	1
36" TO 50-5/8"	2
> 50-5/8"	3



TYPICAL INSTALLATION INTO METAL STRUCTURES



2 SILL DETAIL  
2 SCALE: 1:2



GLAZING DETAIL  
SCALE: 1:1

PRODUCT REVISED as complying with the Florida Building Code  
Acceptance No. 12-0821-20  
Expiration Date April 2, 2014  
By *Manuel Perez*  
Miami Dade Product Control

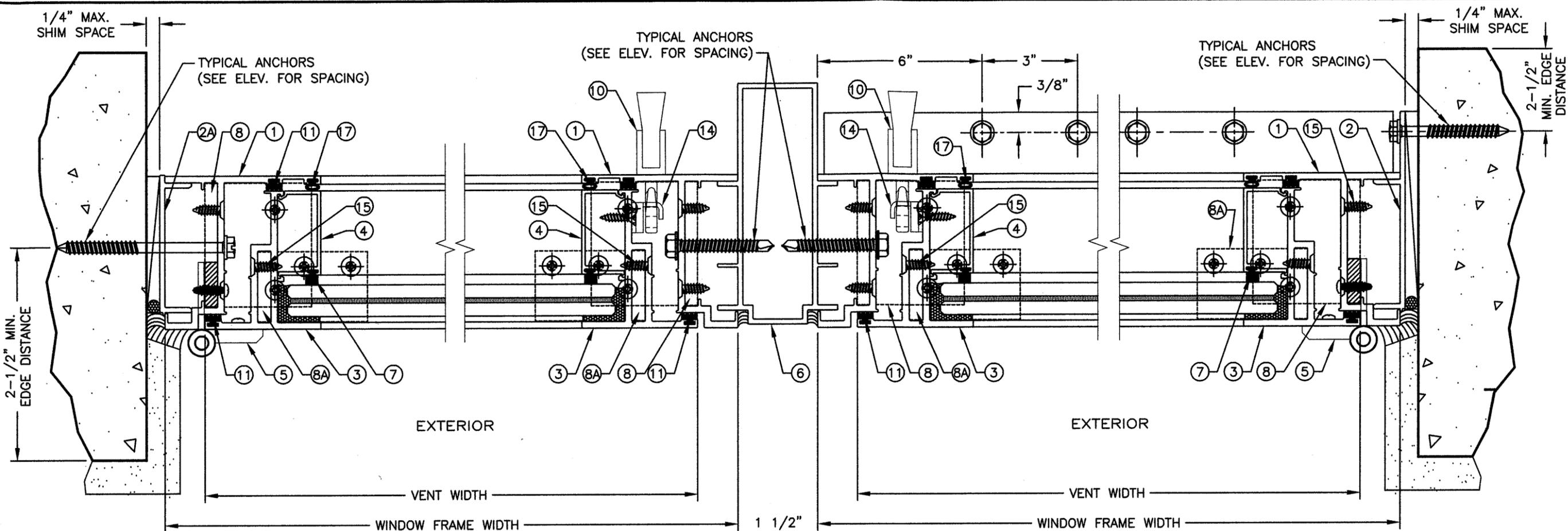
KELVYN WHITFIELD, P.E.  
FLORIDA No. 24140  
1002 N.E. 116 STREET  
MIAMI, FL 33161-6744  
(305) 895-1653  
*[Signature]*  
01/30/13

**GLASSWALL, LLC**  
3550 N.W. 49TH STREET, MIAMI, FL 33142  
PH: (305) 638-5151 FAX: (305) 638-5158  
DWG. TITLE: VERTICAL SECTION & DETAILS / GLAZING DETAIL

SERIES "105L" OUTSWING  
ALUM. CASEMENT WINDOW (LMI)

REVISIONS	DESCRIPTION	BY	DATE

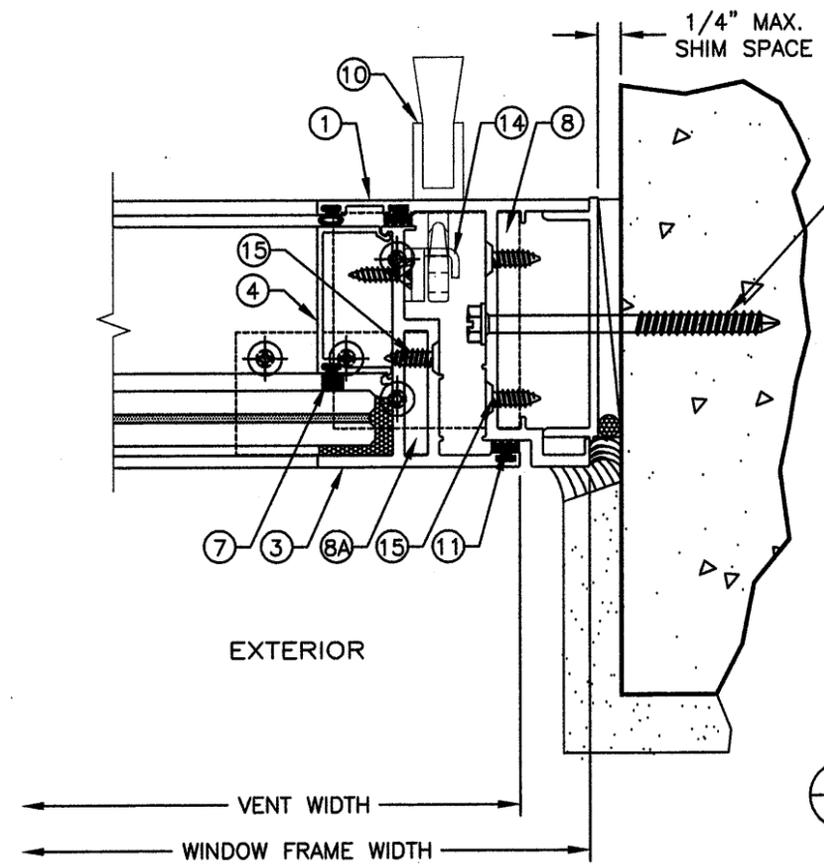
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SCALE: AS NOTED  
DWG. BY: RP  
CHK. BY:  
DRAWING No.: 105L-LM  
SHEET 2 OF 7



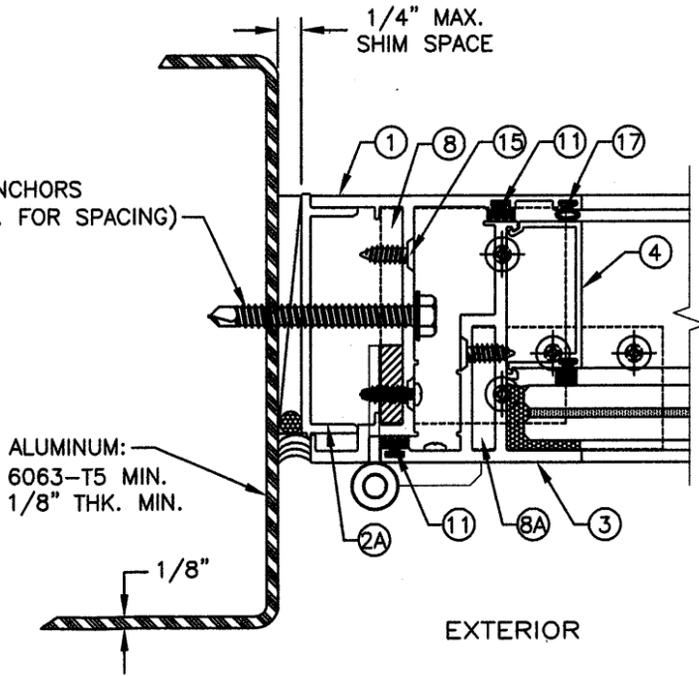
3 JAMB DETAIL  
3 (DIRECT MOUNT)

4 MULLION DETAIL  
3

3 JAMB DETAIL  
3 ("F" CLIP MOUNT)



5 JAMB DETAIL  
3 (LOCK SIDE)



TYPICAL INSTALLATION  
INTO METAL STRUCTURES

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 12-0821.20  
Expiration Date APR 8, 2014  
By *Marnet Perry*  
Miami Dade Product Control

KELVYN WHITFIELD, P.E.  
FLORIDA No. 24140  
1002 N.E. 116 STREET  
MIAMI, FL 33161-6744  
(305) 895-1653  
*Kelvin Whitfield*  
01/30/13

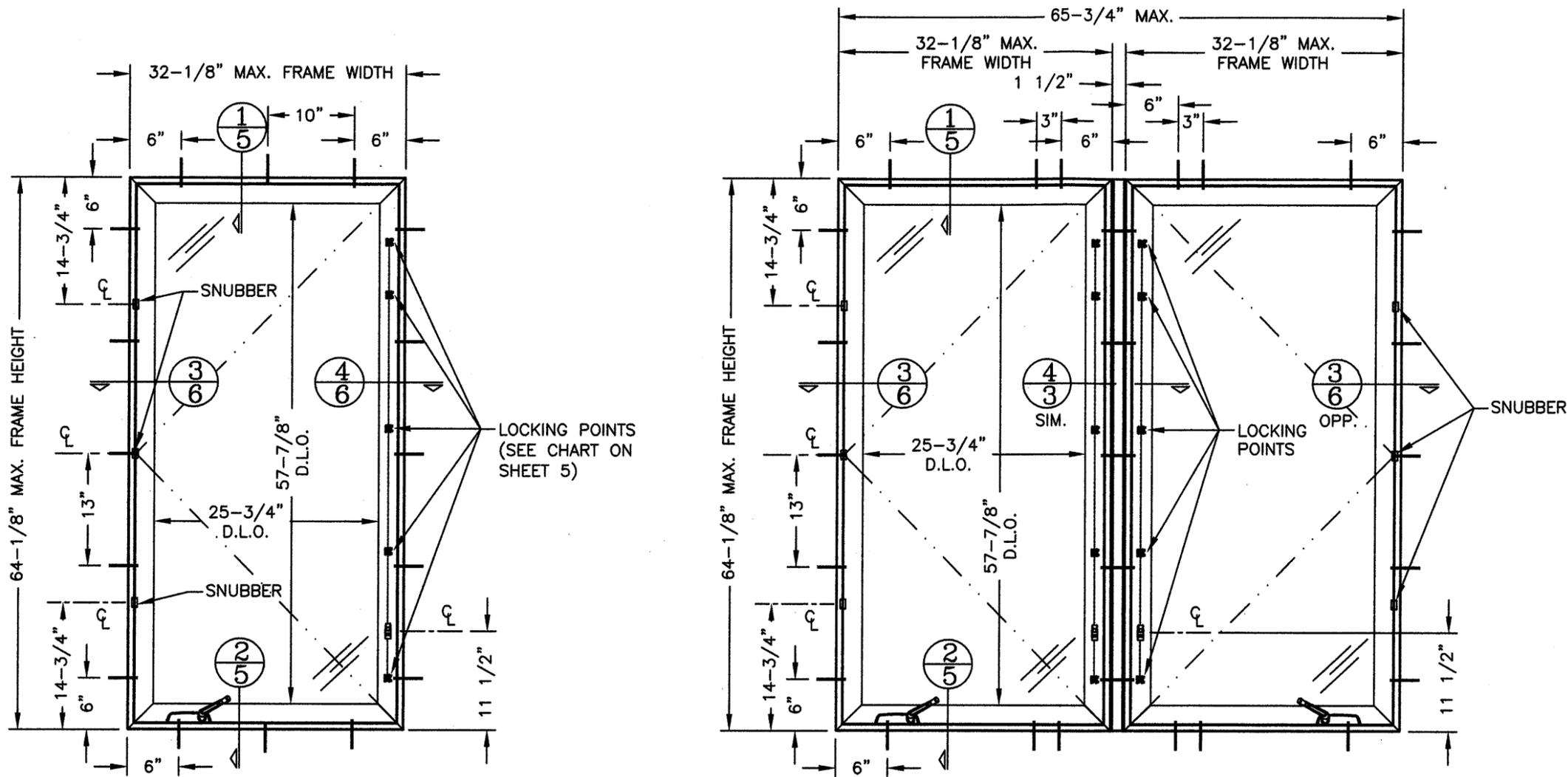
**GLASSWALL, LLC**  
3550 N.W. 49TH STREET, MIAMI, FL 33142  
PH: (305) 638-5151 FAX: (305) 638-5158  
DWG. TITLE: HORIZONTAL SECTION & DETAILS

SERIES "105L" OUTSWING  
ALUM. CASEMENT WINDOW (LMI)

REVISIONS	DESCRIPTION

DATE: 01/21/2013	SCALE: 1:2	DWG. BY: RP	CHK. BY:
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DRAWING No.:  
105L-LM  
SHEET 3 OF 7



**SERIES "105L" OUTSWING ALUM. CASEMENT WINDOW -LMI**

(TYPICAL ELEVATION VIEWED FROM EXTERIOR)

SCALE: 3/4" = 12"

**HARDWARE PACKAGE**

- STAINLESS STEEL FOUR-BAR HINGE TYPE
- MULTIPOINT LOCK BAR SYSTEM WITH LEVER TYPE ACTIVATING HANDLE
- FACE MOUNT SINGLE ARM OPERATOR

**GLASS**

9/16" (NOMINAL) HEAT STRENGTHENED LAMINATED WITH DUPONT SENTRYGLAS INTERLAYER

**MAXIMUM DESIGN PRESSURE**

EXTERIOR (+)	INTERIOR (-)
100.0 PSF	125.0 PSF

**THIS PRODUCT IS RATED LARGE MISSILE IMPACT,  
HURRICANE PROTECTION SYSTEM (SHUTTERS) ARE NOT REQUIRED**

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 12-0821-20  
Expiration Date April 2, 2014  
By *Manuel Perez*  
Miami Dade Product Control

KELVYN WHITFIELD, P.E.  
FLORIDA No. 24140  
1002 N.E. 116 STREET  
MIAMI, FL 33161-6744  
(305) 895-1653  
*Kelvin Whitfield*  
01/30/13

**GLASSWALL, LLC**

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DWG. TITLE: TYP. ELEV./ANCHOR NOTES/ANCHOR LAYOUT

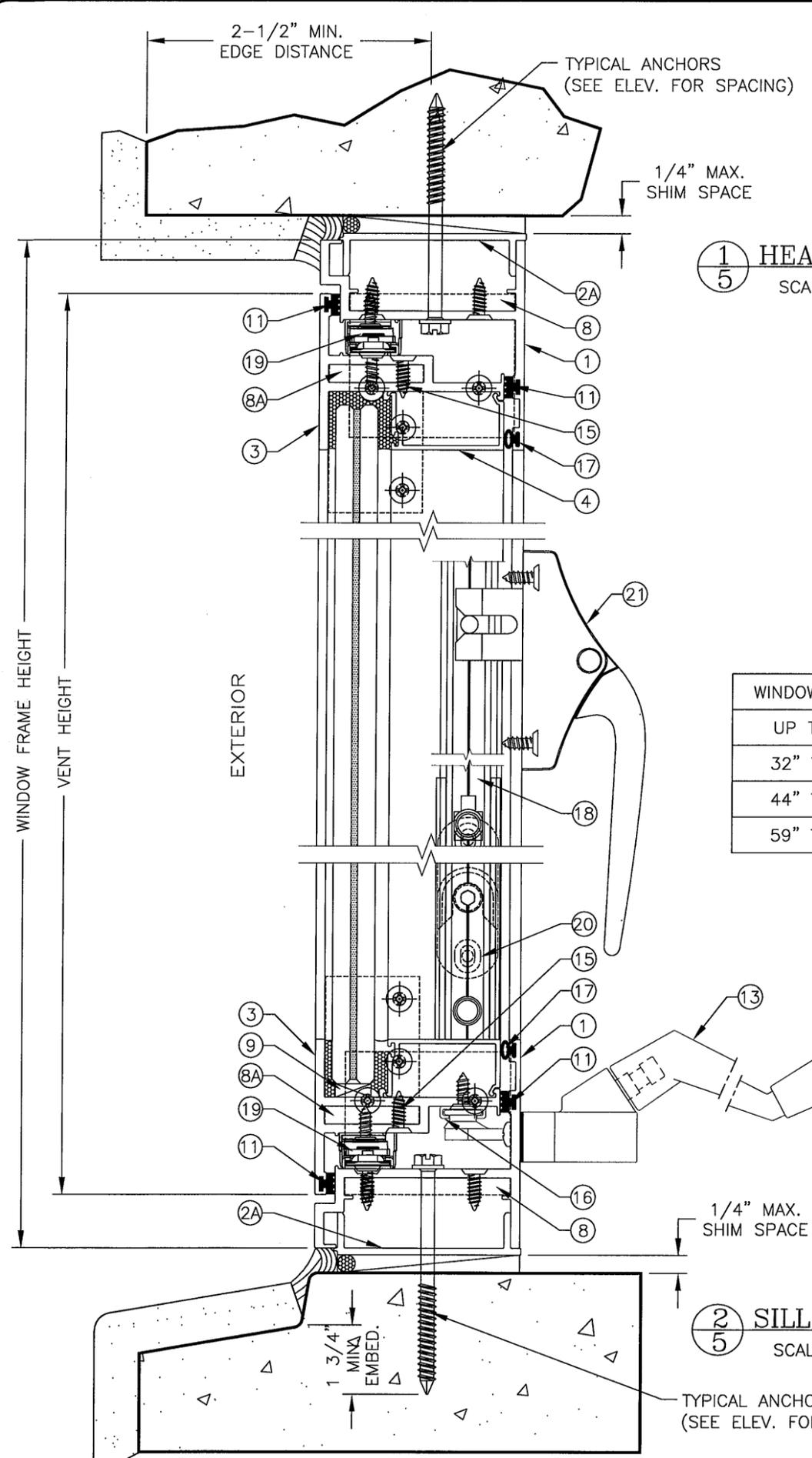
**SERIES "105L" OUTSWING  
ALUM. CASEMENT WINDOW (LMI)**

REVISIONS	DESCRIPTION	BY	DATE

DATE: 01/21/2013  
SCALE: AS SHOWN  
DWG. BY: RP  
CHK. BY:

DRAWING No.:  
**105L-LM**

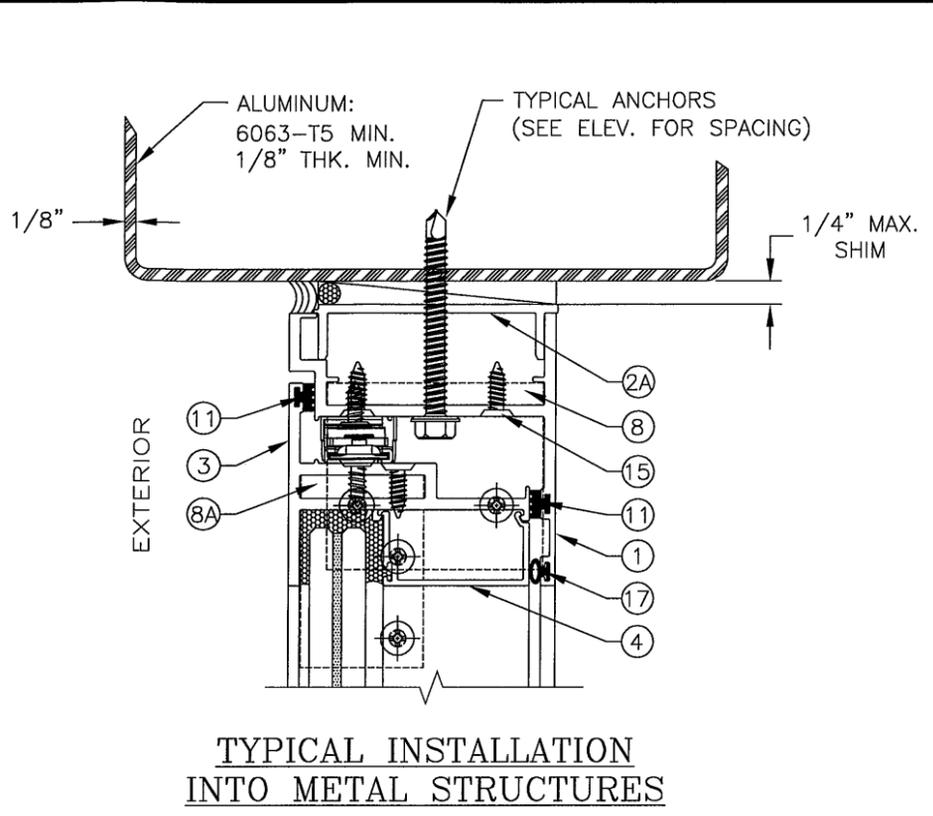
SHEET 4 OF 7



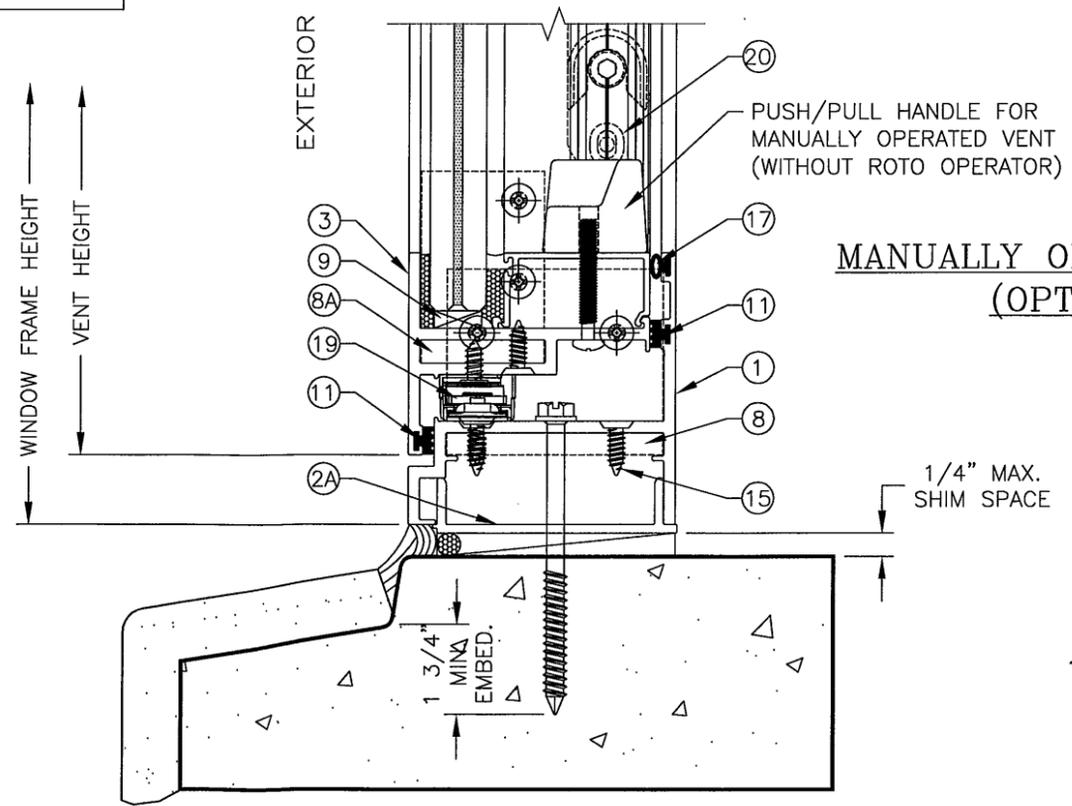
**1 HEAD DETAIL**  
SCALE: 1:2

WINDOW HEIGHT	LOCKING POINTS
UP TO 31"	2
32" TO 43"	3
44" TO 58"	4
59" TO 64"	5

**2 SILL DETAIL**  
SCALE: 1:2



**TYPICAL INSTALLATION INTO METAL STRUCTURES**



**MANUALLY OPERATED VENT (OPTIONAL)**

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. **12-0821.20**  
Expiration Date **April 8, 2014**  
By *Manuel Pro*  
Miami/Dade Product Control

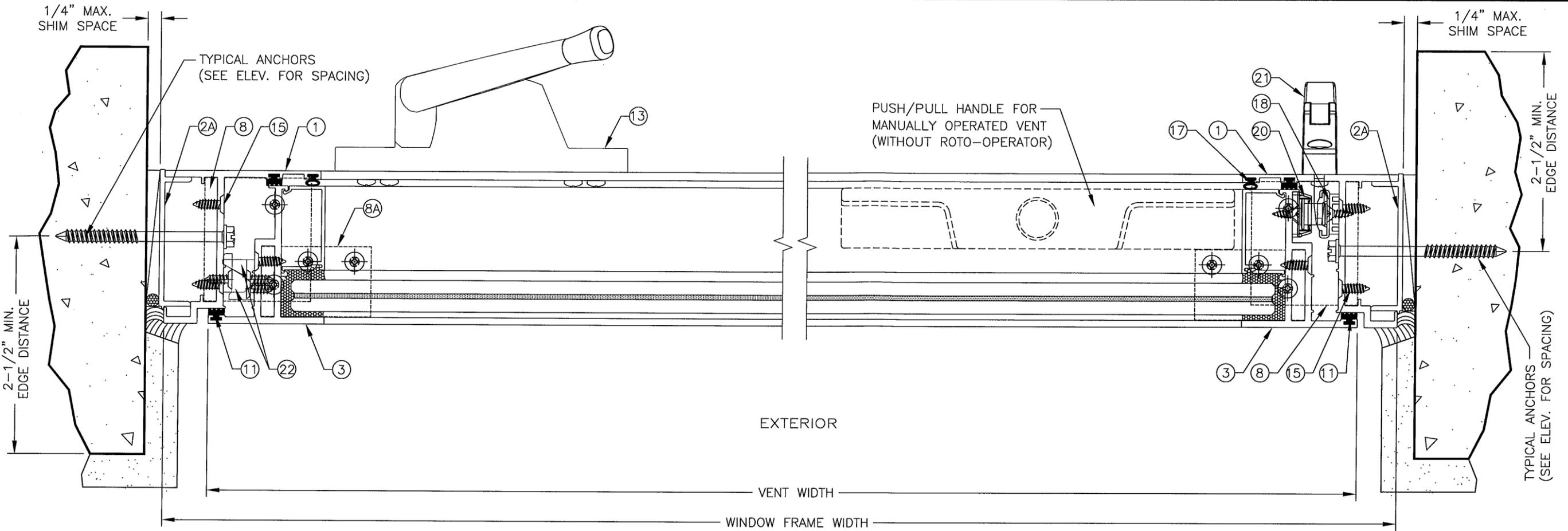
KELVYN WHITFIELD, P.E.  
FLORIDA No. 24140  
1002 N.E. 116 STREET  
MIAMI, FL 33161-6744  
(305) 895-1653  
*Kelvin Whitfield*  
01/29/13

**GLASSWALL, LLC**  
3550 N.W. 49TH STREET, MIAMI, FL 33142  
PH: (305) 638-5151 FAX: (305) 638-5158  
DWG. TITLE: VERTICAL SECTION & DETAILS

SERIES "105L" OUTSWING  
ALUM. CASEMENT WINDOW (LMI)

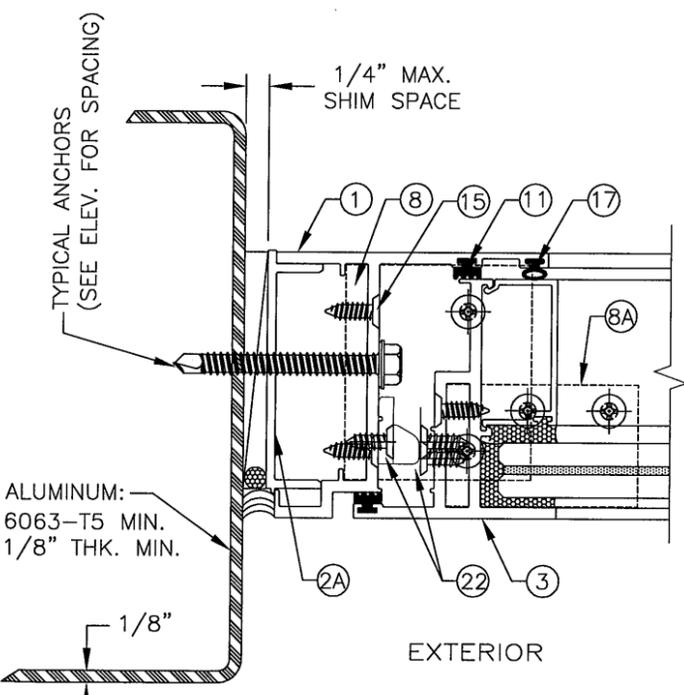
REVISIONS	No.	DATE	BY	DESCRIPTION

DATE: 01/21/2013  
SCALE: AS NOTED  
DWG. BY: RP  
CHK. BY:  
DRAWING No.:  
**105L-LM**  
SHEET 5 OF 7

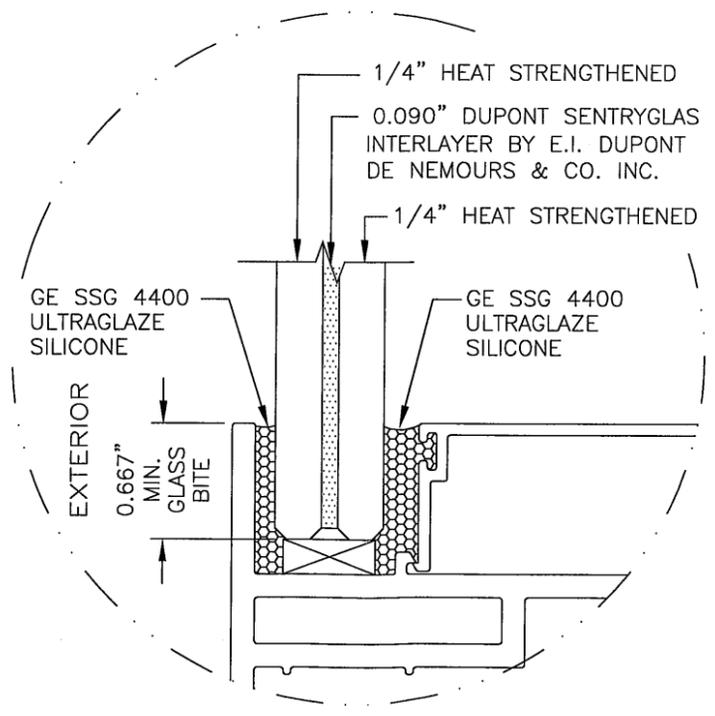


3 JAMB DETAIL  
6 (HINGE SIDE)

4 JAMB DETAIL  
6 (LOCK SIDE)



TYPICAL INSTALLATION  
INTO METAL STRUCTURES



GLAZING DETAIL  
SCALE: 1:1

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 12-0821-20  
Expiration Date April 3, 2014  
By *Marcus [Signature]*  
Miami Dale Product Control

KELVYN WHITFIELD, P.E.  
FLORIDA No. 24140  
1002 N.E. 116 STREET  
MIAMI, FL 33161-6744  
(305) 895-1653  
*[Signature]*  
01/29/13

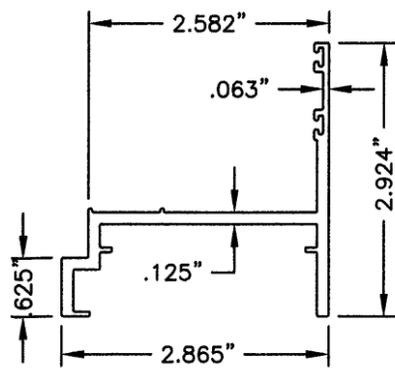
**GLASSWALL, LLC**  
3550 N.W. 49TH STREET, MIAMI, FL 33142  
PH: (305) 638-5151 FAX: (305) 638-5158  
DWG. TITLE: HORIZ. SECTION & DETAILS / GLAZING DETAIL

SERIES "105L" OUTSWING  
ALUM. CASEMENT WINDOW (LMI)

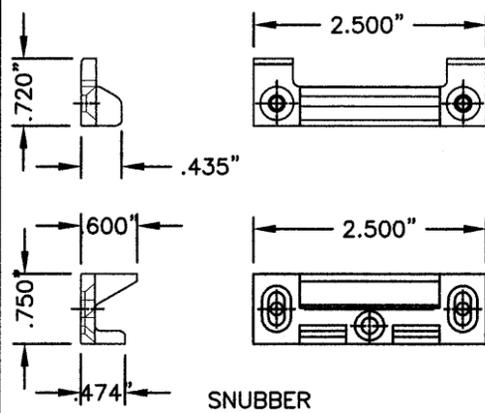
REVISIONS	No.	DATE	BY	DESCRIPTION

DATE: 01/21/2013  
SCALE: 1:2  
DWG. BY: RP  
CHK. BY:

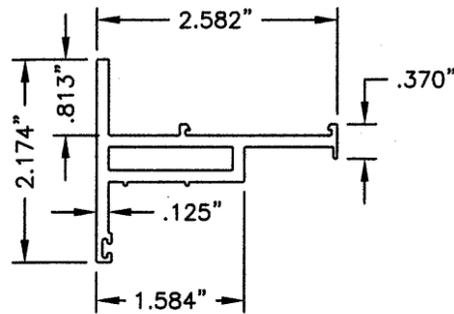
DRAWING No.:  
105L-LM  
SHEET 6 OF 7



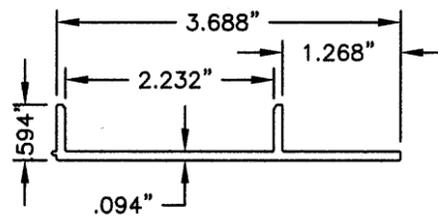
WINDOW FRAME  
(105-002)



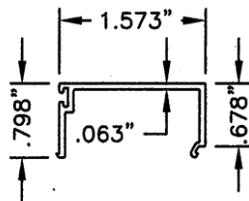
SNUBBER



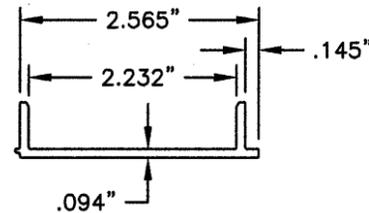
VENT FRAME  
(105-001)



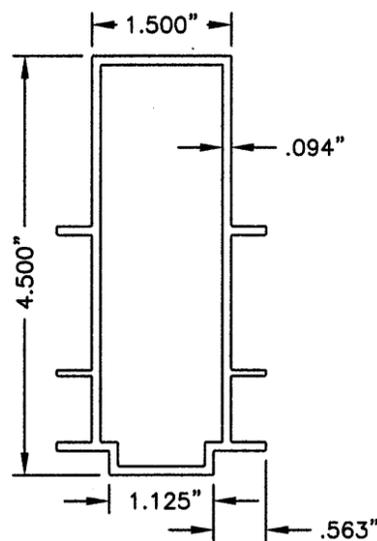
ANCHOR "F" CLIP  
(102-009)



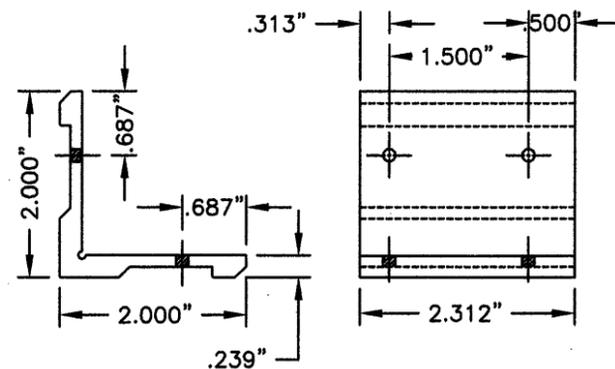
GLAZING STOP  
(105-003)



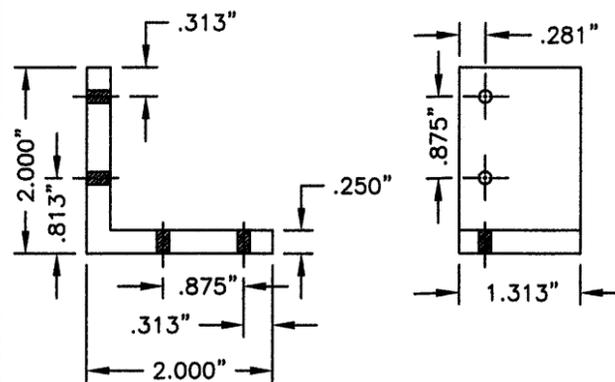
ANCHOR CLIP (EQUAL LEG)  
(102-011)



MULLION  
(105-010)



FRAME CORNER LOCK  
(105-004)



VENT CORNER LOCK

BILL OF MATERIALS

ITEM	PART No.	QUANTITY	DESCRIPTION	MATERIAL	REMARKS/MANUFACTURER
1	105-002	AS REQ'D	WINDOW FRAME	ALUM. 6063-T6	-
2	102-009	AS REQ'D.	"F" ANCHOR CLIP	ALUM. 6063-T6	-
2A	102-011	AS REQ'D.	ANCHOR CLIP (FOR DIRECT MOUNT)	ALUM. 6063-T6	-
3	105-001	AS REQ'D	VENT FRAME	ALUM. 6063-T6	-
4	105-003	AS REQ'D.	GLAZING STOP	ALUM. 6063-T6	-
5	AH-GW	3/VENT	BUTT HINGE ASSY., FASTENED W/(5) #10 SMS.	ALUM. 6063-T6	WINDOW HARDWARE
6	102-010	-	MULLION	ALUM. 6063-T6	-
7	679-FP-688B	AS REQ'D.	GASKET	EPDM	DUROMETER 70±5%, SHORE A
8	105-004	1/CORNER	FRAME CORNER LOCK ANGLE	ALUM. 6063-T6	-
8A	-	1/CORNER	VENT CORNER LOCK ANGLE	ALUM. 6063-T6	-
9	-	AS REQ'D	SETTING BLOCK (3/16 x 3/4 x 4" LG.)	-	-
10	24.13	1/VENT	SURFACE MOUNT LOCKING MECHANISM W/CONNECTING BAR	METALLIC	-
11	679-FP-786B	AS REQ'D.	GASKET	EPDM	DUROMETER 70±5%, SHORE A
12	-	AS REQ'D	LOCKING SYSTEM CONNECTING BAR	METALLIC	-
13	23.10	1/VENT	ROTO OPERATOR, FASTENED W/(4) #10x1/2" PH.SMS.	CAST	TRUTH
14	31376	AS REQ'D	SURFACE MOUNT KEEPER, FASTENED W/(2) #10 SS.SMS.	STAINLESS STEEL	TRUTH
15	-	8/CORNER	#10x1/2" PH.SMS.	STAINLESS STEEL	-
16	30175	1/VENT	OPERATOR'S ARM TRACK	STAINLESS STEEL	TRUTH
17	679-FP-448VB	AS REQ'D	BULB VINYL WEATHERSTRIP	VINYL	-
18	105-GW-HW	1	SURFACE MOUNT MULTI POINT LOCK SYSTEM W/ACTIVATING LEVEL TYPE HANDLE, AT 11-1/2" FROM BOTTOM.	METALLIC	W/(2)#10x1/2" FH.UC.SMS. AT EA. LOCKING POINT
19	105 GW-HW-016	2/VENT	FOUR-BAR HINGE, ONE EACH AT HEAD AND SILL	STAINLESS STEEL	-
20	105 GW-HW-010	AS REQ'D	SURFACE MOUNT KEEPERS, W/(3) #10x5/8" F.H.SMS.	METALLIC	-
21	105 GW-HW-007	1	LOCKING HANDLE, FASTENED W/(2) 10-24x3/4" FH.UC.MS	METALLIC	-
22	105 GW-HW-009	3	SNUBBER ANGLES, AT HINGE SIDE FRAME JAMB AND VENT SIDE RAIL, AT 14-3/4" FROM ENDS AND AT MIDSPAN	METALLIC	W/(2)#10x5/8"FH.UC.SMS.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 12-0821.20  
Expiration Date April 8, 2014  
By *Manuel Perez*  
Miami Trade Product Control

KELVYN WHITFIELD, P.E.  
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*Kelwyn Whitfield*  
01/30/13

**GLASSWALL, LLC**

3550 N.W. 49TH STREET, MIAMI, FL 33142  
PH: (305) 638-5151 FAX: (305) 638-5158

DWG. TITLE: PARTS LIST, BOM

SERIES "105L" OUTSWING  
ALUM. CASEMENT WINDOW (LMI)

REVISIONS	No.	DATE	BY	DESCRIPTION

DATE: 01/21/2013  
SCALE: 1:2  
DWG. BY: RP  
CHK. BY:

DRAWING No.:  
105L-LM  
SHEET 7 OF 7