



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

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

TRACO Security Windows & Doors, Inc.
71 Progress Avenue
Cranberry Township, PA 16066

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 "Coastal-240" Aluminum Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **05-TRA-0003**, titled "Coastal-240 Single Hung Window Large Missile Impact Resistant", sheets 1 through 3 of 3, dated 01/13/03 with revision dated 01/19/09, prepared by Engineering Express, 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 # 06-1121.14** 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.**



NOA No. 09-0505.01
Expiration Date: March 17, 2013
Approval Date: September 23, 2009
Page 1

TRACO Security Windows and Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **05-TRA-0003**, titled "Coastal-240 Single Hung Window Large Missile Impact Resistant", sheets 1 through 3 of 3, dated 01/13/03 with revision dated 01/19/09, prepared by Engineering Express, by Frank L. Bennardo, P.E.

B. TESTS

1. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94along with marked-up drawings and installation diagram of a model SH240 aluminum single hung window, prepared by Farabaugh Engineering and Testing, Inc., Test Report No. **FET-T188-06**, dated 08/01/06, signed and sealed by Daniel G. Farabaugh, P.E.
2. Test reports on:
 - 1) Air Infiltration Test, PA 202-94
 - 2) Uniform Static Air Pressure Test, Loading PA 202-94
 - 3) Water Resistance Test, PA 202-94
 - 4) Large Missile Impact Test, PA 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Resistance, PA 202-94along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by American Test Lab. of South Florida, Test Report No. **ATL-0713.01-99**, dated 10/07/1999, signed and sealed by William R. Mehner, P.E. and Henry Hattem, P.E. With addendum letter dated 2/23/2000, signed and sealed by William R. Menner, P.E. **(Submitted under NOA# 05-0930.03)**
3. Test reports on:
 - 1) Air Infiltration Test, PA 202-94
 - 2) Uniform Static Air Pressure Test, Loading PA 202-94
 - 3) Water Resistance Test, PA 202-94
 - 4) Large Missile Impact Test, PA 201-94
 - 5) Cyclic Wind Pressure Loading, PA 203-94
 - 6) Forced Entry Resistance, PA 202-94along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-2363**, dated July 22, 1999, signed and sealed by Jose D. Mitrani, P.E. **(Submitted under NOA# 05-0930.03)**


Manuel Perez, P.E.
Product Control Examiner
NOA No. 09-0505.01
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C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Engineering Express, dated 04/29/09, signed and sealed by Frank L. Bennardo, P.E.
Complies with ASTM E1300-04

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **06-0216.06** issued to Solutia Inc. for their "**Saflex III G Clear or colored interlayer**" dated 05/04/06, expiring on 05/21/11.

F. STATEMENTS

1. Statement letter of conformance, dated January 19, 2009, signed and sealed by Frank L. Bennardo, P.E.
2. Statement letter of no financial interest, dated January 19, 2009, signed and sealed by Frank L. Bennardo, P.E.

G. OTHERS

1. Notice of Acceptance No. **06-1121.14**, issued to TRACO Security Aluminum Windows & Doors, Inc. for their Series "Coastal-240" Aluminum Single Hung Window – L.M.I., approved on 11/22/07 and expiring on 03/17/13.

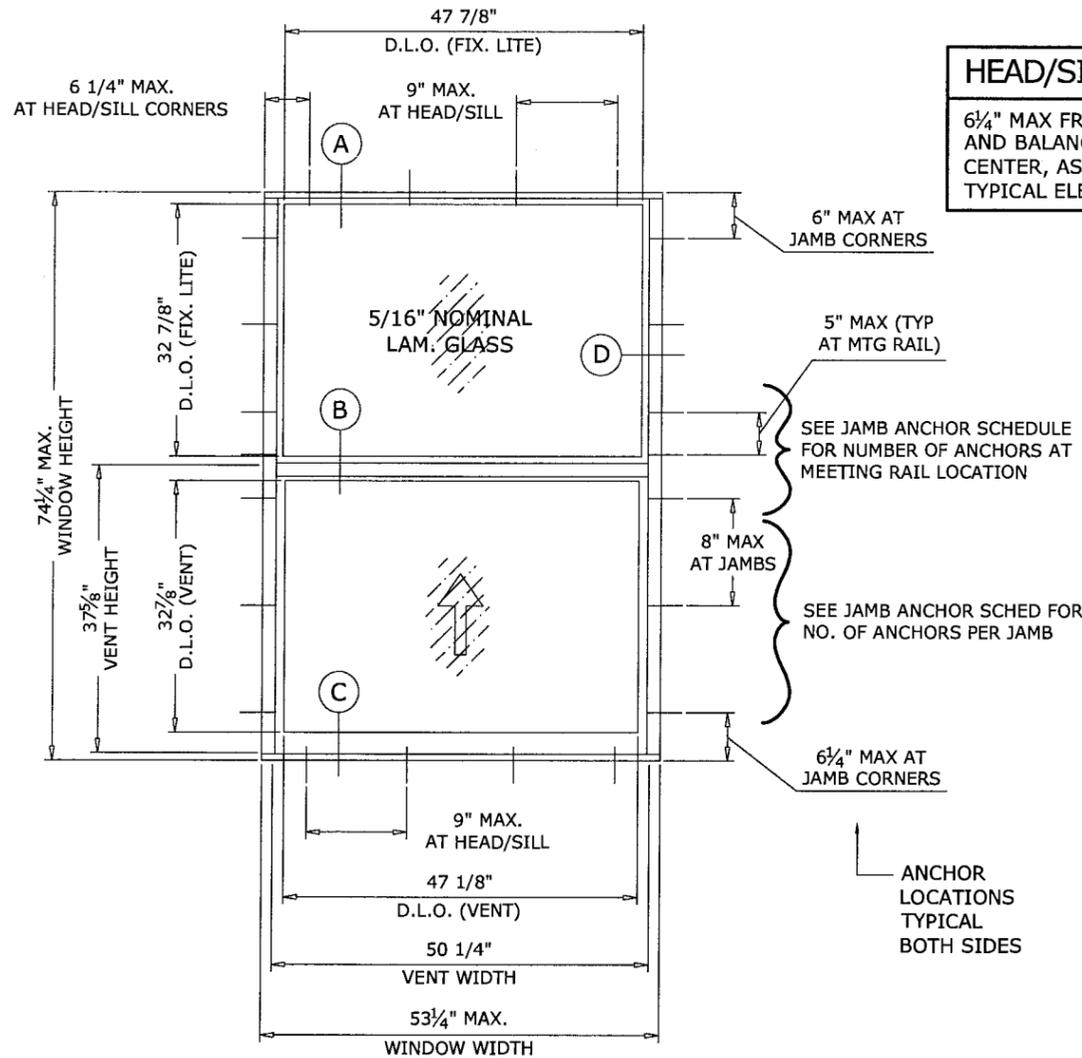

Manuel Perez, P.E.
Product Control Examiner
NOA No. 09-0505.01
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COASTAL-240 SINGLE HUNG WINDOW

LARGE MISSILE IMPACT RESISTANT

FRANK L. BENNARDO, P.E.
PE0046549

02/04/2009



TYPICAL ELEVATION

HEAD/SILL ANCHORS:

6 1/4" MAX FROM CORNERS AND BALANCE @ 9" MAX ON CENTER, AS SHOWN ON TYPICAL ELEVATION.

JAMB ANCHORS:

WINDOW DIMS.	WIDTH	HEIGHT	NUM OF ANCHORS	
			TOTAL	MTG RAIL
19 1/8"	26"	26"	4	2
26 1/2"			4	2
37"			4	2
53 1/8"			4	2
19 1/8"	38-3/8"	38-3/8"	6	2
26 1/2"			6	2
37"			6	2
53 1/8"			6	2
19 1/8"	50-5/8"	50-5/8"	8	2
26 1/2"			8	2
37"			8	2
53 1/8"			8	2
19 1/8"	57"	57"	8	2
26 1/2"			8	2
37"			8	2
53 1/8"			8	2
19 1/8"	63"	63"	8	2
26 1/2"			8	2
37"			8	2
53 1/8"			8	2
19 1/8"	74-1/4"	74-1/4"	10	2
26 1/2"			10	2
37"			10	2
53 1/4"			11	3

MAX DESIGN PRESSURE

+62 / -62 PSF

GENERAL NOTES:

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE 2007 FLORIDA BUILDING CODE, HIGH VELOCITY HURRICANE ZONES, MIAMI-DADE COUNTY PROTOCOLS TAS 201, 202 & 203, AND ASTM E 1300-04.
2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
4. THE SYSTEM DETAILED HEREIN HAS BEEN TESTED PER MIAMI-DADE COUNTY PROTOCOLS TAS-201, TAS-202, & TAS-203 AS REFERENCED IN TEST REPORTS #0713.01-99 BY AMERICAN TEST LAB (ATL), #2363 BY FENESTRATION TESTING LABORATORY (FTL) AND #T188-06 BY FARABAUGH ENGINEERING & TESTING, INC (FET). MULTIPLE UNITS MUST BE INSTALLED USING MIAMI-DADE COUNTY BCCO-APPROVED STRUCTURAL MULLIONS.
5. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
6. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
7. PANELS GLAZED WITH 5/16" LAMINATED GLASS ARE LARGE MISSILE IMPACT RESISTANT AND DO NOT REQUIRE IMPACT RESISTANT SHUTTERS.
8. ANCHORS SHALL BE INSTALLED AS LISTED PER MANUFACTURER'S SPECIFICATIONS AND SPACED AS SHOWN HEREIN. ANCHOR EMBEDMENT TO BASE MATERIAL EXCLUDES STUCCO OR WALL DRESSING.
9. ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED.

LARGE MISSILE IMPACT RESISTANT WINDOWS
SHUTTERS NOT REQUIRED

- ① "TOTAL" INDICATES TOTAL NUMBER OF ANCHORS AT EACH JAMB (INCLUDES "MTG RAIL" ANCHORS). 8" MAX SPACING INCORPORATED INTO TOTAL NUMBER OF ANCHORS.
- ② "MTG RAIL" INDICATES NUMBER OF ANCHORS AT HORIZONTAL MEETING RAIL ENDS AT JAMBS (EACH END)

TYPICAL ANCHORS:

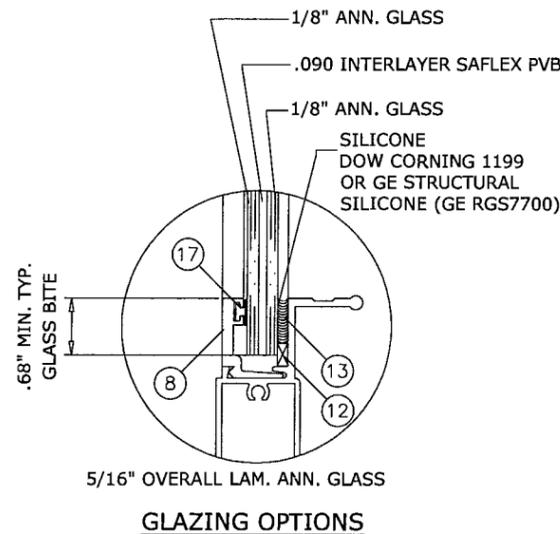
1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. ANCHOR EMBEDMENT SHALL BE INTO BASE MATERIAL, EXCLUDING STUCCO OR OTHER WALL FINISH.
3. BASE MATERIAL SHALL BE WOOD (G=0.55 OR GREATER SPECIFIC GRAVITY), GROUT-FILLED BLOCK (MIN 1500 psi COMPRESSIVE STRENGTH FOR GROUT), OR CONCRETE (MIN 3192 PSI).
4. SEE EXTERIOR ELEVATIONS FOR ANCHOR LOCATIONS AND SPACING.
5. ENSURE MINIMUM OF 2-1/2" EDGE DISTANCE FOR ALL ANCHORS INTO GROUT-FILLED BLOCK (MIN 1500 PSI) OR CONCRETE (MIN 3192 PSI), AND MINIMUM OF 1-1/2" EDGE DISTANCE FOR ALL WOOD ANCHORS.
6. ANCHOR OPTIONS FOR INSTALLATION ARE AS FOLLOWS:

TO 2x WOOD BUCK OR WOOD STRUCTURE
#14 WOOD SCREW OR 1/4" ITW TAPCONS WITH 1-1/2" MINIMUM EMBEDMENT.

TO CONC (MIN 3192 PSI)
OR GROUT-FILLED BLOCK (MIN 1500 PSI)
(DIRECTLY OR THRU 1x OR 2x WOOD BUCK) 1/4" TAPCONS (ITW OR ELCO) WITH 1-3/4" MINIMUM EMBEDMENT TO CONC (MIN 3192 PSI) OR GROUT-FILLED BLOCK (MIN 1500 PSI).

SEALANTS:

FRAME AND VENT CORNERS SEALED WITH SCHNEE MOREHEAD 5504.



GLAZING OPTIONS

ENGINEERING EXPRESS
160 SW 12th Avenue, #106
Deerfield Beach, FL 33442
Ph: (954) 354-0660 Fax: (954) 354-0443
WWW.ENGINEERINGEXPRESS.COM

TRACO
Windows & Doors Inc.
71 Progress Avenue
Cranberry Township, PA 16166
COASTAL-240 SINGLE HUNG WINDOW
LARGE MISSILE IMPACT RESISTANT
MIAMI-DADE NOTICE OF ACCEPTANCE

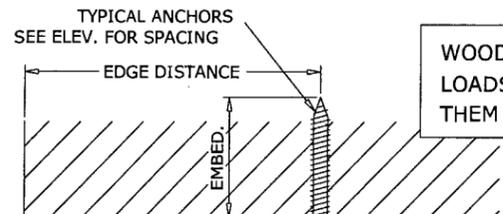
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CL	FLB	09/27/05
CL	FLB	12/21/05
KL	CL	10/23/06
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05-TRA-0003
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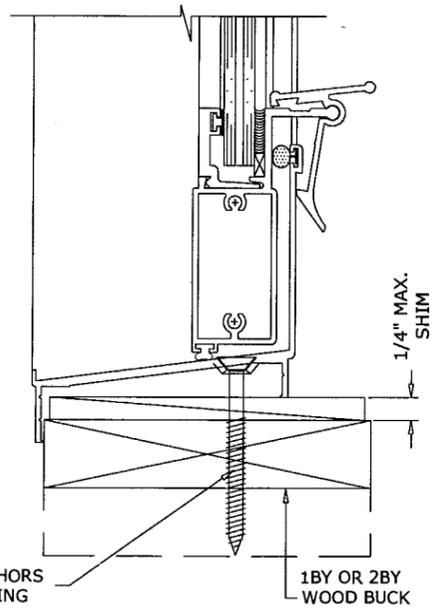
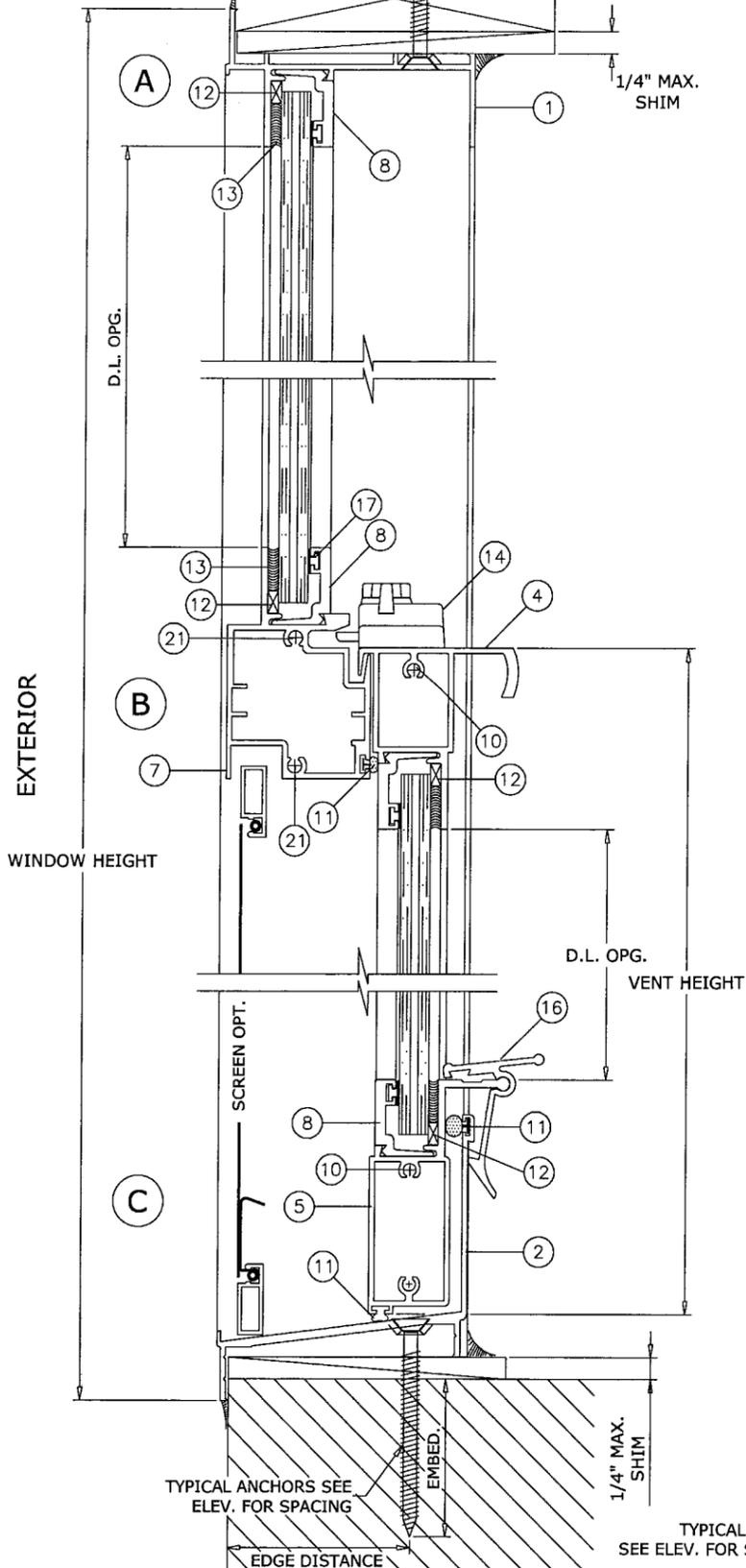
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 09-0505.01
Expiration Date MARCH 17, 2013
By *Manuel Perez*
Miami Dade Product Control
Division

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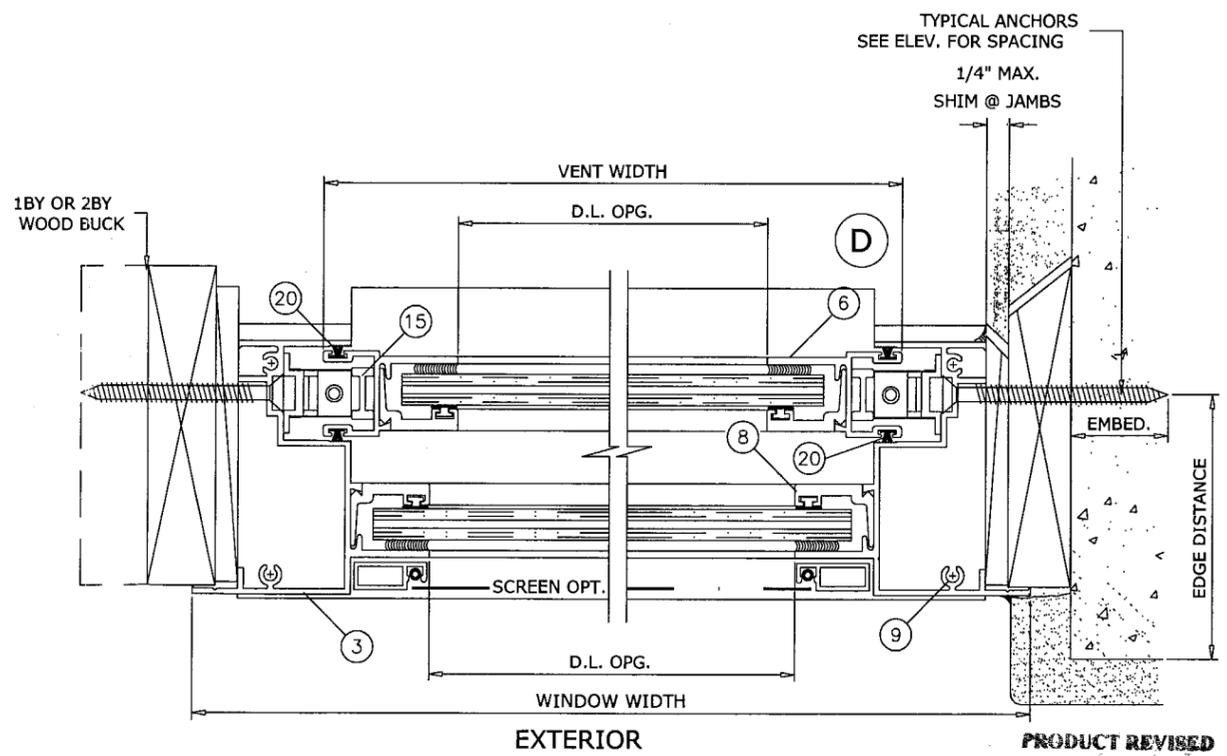
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WOOD BUCKS (BY OTHERS), MUST SUSTAIN ALL LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	050-00-572	1	FRAME HEAD	6063-T6	-
2	050-00-308	1	FRAME SILL	6063-T6	-
3	050-00-586	2	FRAME JAMB	6063-T5	-
4	051-00-571	1	VENT TOP	6063-T6	-
5	051-00-548	1	VENT BOTTOM	6063-T5	-
6	050-00-570	2	VENT SIDE	6063-T6	-
7	051-00-573	1	FIXED MEETING RAIL	6063-T6	-
8	050-00-569	4/	LITE	GLASS STOP	6063-T6
9	012-00-835	AS REQD.	FRAME ASSEMBLY SCREW		#8 X 1" PPH SMS
10	012-00-835	AS REQD.	VENT ASSEMBLY SCREW		#8 X 1" PPH SMS
11	046-00-098	AS REQD.	W'STRIPPING (FABRIC COATED FOAM)		SCHLEGEL Q-LON .375 X .190
12	046-16-102	12	SETTING BLOCK .10" X .30" X 1-5/8" LONG		5" FROM ENDS & AT MIDSPAN
13	-	AS REQD.	GLAZING COMPOUND	SILICONE	DOW 1199
14	007-10-016	2	SWEEP LOCK (AT 6-3/4" FROM ENDS)	ZINC CAST	
15	046-16-030	2	BLOCK AND TACKLE BALANCE		WINDOW COMPONENTS (5/8" BOX)
16	050-00-718	1	SNAP LATCH 3" LONG W/ SPRING	6063-T5	OPTIONAL PART IN PLACE OF ITEM 14
17	046-00-010	AS REQD.	BULB VINYL		WIBORG
18	-	-	-	-	-
19	-	-	-	-	-
20	047-00-015	AS REQD.	FIN SEAL PILE		AMESBURY 180X150 OR EQUIV.
21	012-00-130	4	MTG. RAIL ASSEMBLY SCREW		#10 X 1" PPH SMS
22	05-0127-10 05-0128-16	AS REQD.	GLAZING COMPOUND TWO-PART GE STRUCTURAL SILICONE	SILICONE	GE RGS7700



PRODUCT REVISED
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 Expiration Date 10/21/2013
 By *Marcus Perry*
 Miami Code Product Control
 Division

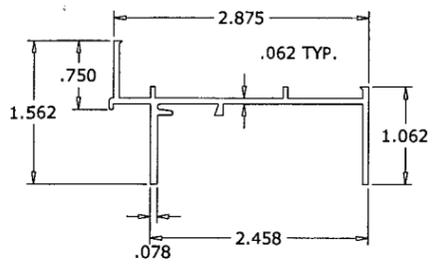
FRANK L. BENNARDO, P.E.
 # PE0046549
 02/04/2009
ENGINEERING EXPRESS
 160 SW 12th AVENUE, # 106
 DEERFIELD BEACH, FL 33442
 Ph: (954) 354-0660 Fax: (954) 354-0443
 WWW.ENGEXP.COM
 CERT. OF AUTH. #9885
 A FRANK L. BENNARDO, P.E., INC. INNOVATION

TRACO
 Windows & Doors Inc.
 71 PROGRESS AVENUE
 CRANBERRY TOWNSHIP, PA 16166
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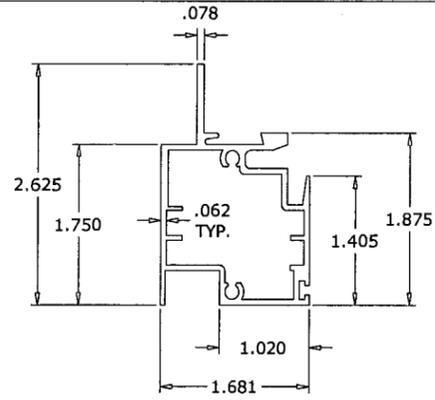
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PART LABELS	CL	FLB	12/21/05
GE SILICONE OPTION	KL	CL	10/23/06
2007 FBC	KL	CL	01/19/09

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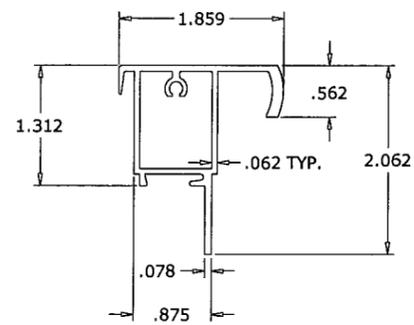
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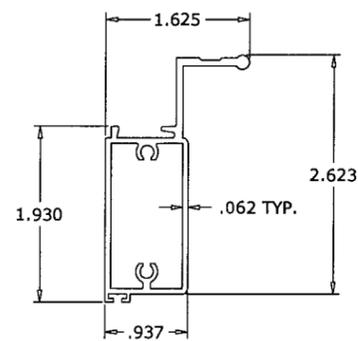
1 FRAME HEAD



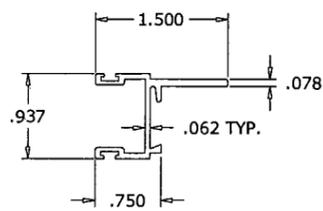
7 MEETING RAIL



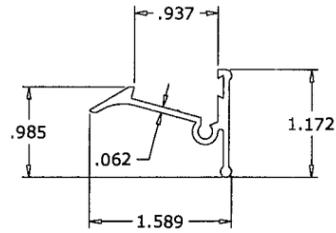
4 BOTTOM VENT TOP RAIL



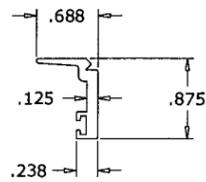
5 BOTTOM VENT BOTTOM RAIL



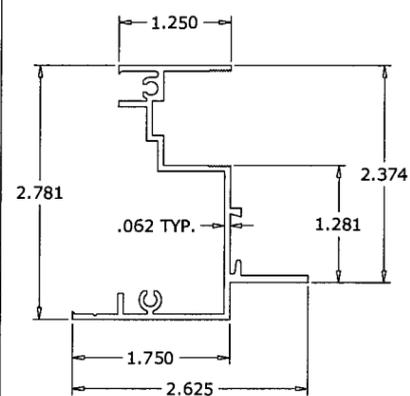
6 SASH SIDE RAIL



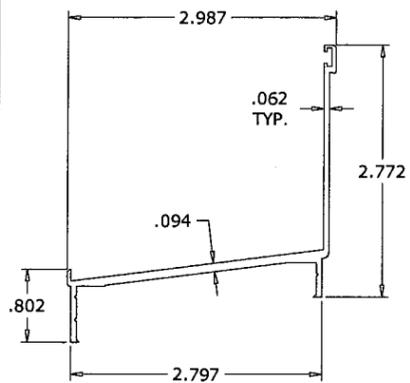
16 LATCH



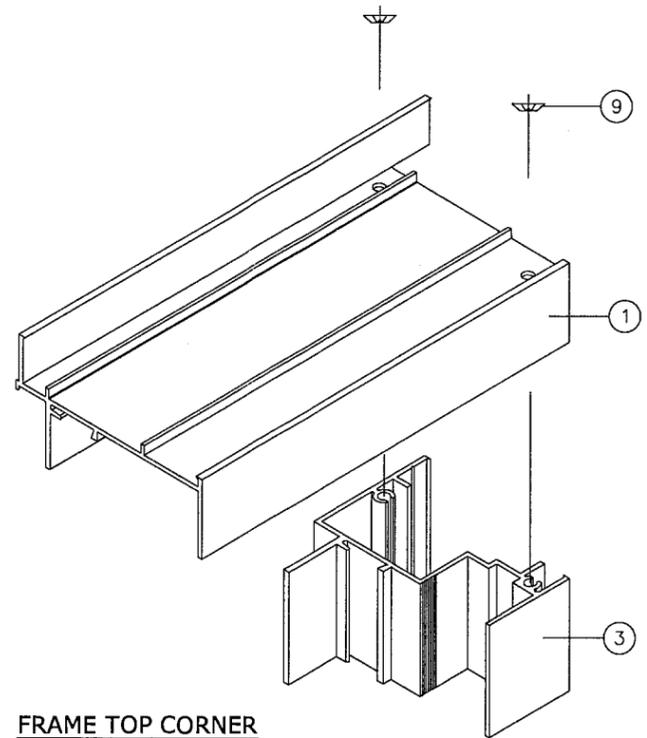
8 GLASS STOP



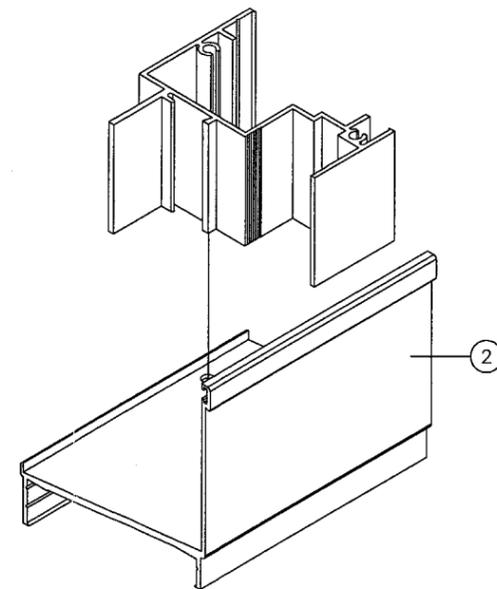
3 FRAME JAMB



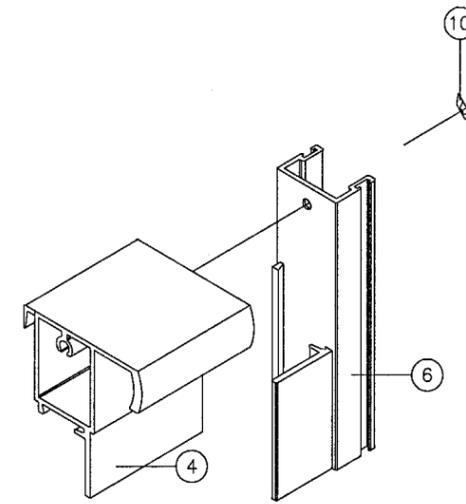
2 FRAME SILL



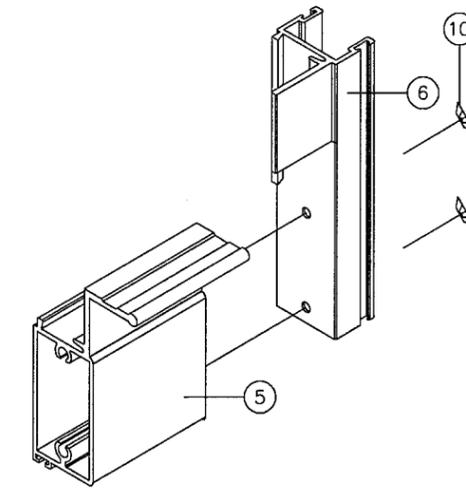
FRAME TOP CORNER



FRAME BOTTOM CORNER



VENT TOP CORNER



VENT BOTTOM CORNER

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 PH: (954) 354-0660 FAX: (954) 354-0443
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REMARKS
 INIT ISSUE
 2004 FBC
 PART LABELS
 GE SILICONE OPTION
 2007 FBC

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