



**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) 375-2908**

NOTICE OF ACCEPTANCE (NOA)

**Traco Security Windows & Doors, Inc.
2304 Silverdale Road
Johnson City, TN 37601**

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 5758 Aluminum Fixed Window -N.I.

APPROVAL DOCUMENT: Drawing No. **04-113-0003**, titled "Series 2100 Aluminum Fixed Window Non-Impact Resistant", sheets 1 through 3 of 3, prepared by Frank L. Bennardo, P.E. Consulting Engineer, dated 06/11/04 with revision "2" on 06/11/04, signed and sealed by Frank L. Bennardo, 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: None

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 # **02-0122.02** and consists of this page 1 and evidence page E-1, and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Herminio F. Gonzalez, P.E.**



Handwritten signature and date: 7/15/04

**NOA No 04-0506.01
Expiration Date: April 25, 2007
Approval Date: August 05, 2004
Page 1**

Traco Security Windows & Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

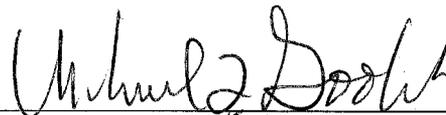
1. Manufacturer's die drawings and sections.
2. Drawing No. **04-113-0003**, titled "Series-2100 Aluminum Fixed Window Non-Impact", sheets 1 through 3 of 3, prepared by Frank L. Bennardo, P.E. Consulting Engineer, dated 06/11/04, and revised on 06/11/04, signed and sealed by Frank L. Bennardo, P.E., P.E.

B. TESTS

1. Test report on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
along with installation diagram of a series "2100 Aluminum Fixed Window" aluminum fixed picture window prepared by Fenestration Testing Laboratory, Inc., report No. **FTL-1298**, File No. 95-128, dated September 26, 1995, signed and sealed by Jamil Kuri, P.E.
"Submitted under NOA # 02-0122.02"
2. Test report on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
along with installation diagram of a series "2100 Aluminum Fixed Window" aluminum fixed picture window prepared by Fenestration Testing Laboratory, Inc., report No. **FTL-1228**, File No. 95-128, dated September 27, 1995, signed and sealed by Jamil Kuri, P.E.
"Submitted under NOA # 02-0122.02"
3. Test report on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
along with installation diagram of a series "2100 Aluminum Fixed Window" aluminum fixed picture window prepared by Farabaugh Engineering and Testing, Inc., report No. **FET-04004**, dated March 10, 2004, signed and sealed by Daniel G. Farabaugh, P.E.

C. CALCULATIONS

1. Revised set of Comparative Analysis and Anchor Calculations, dated 03/20-23/99, pages 1 thru 16 of 16, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.
"Submitted under NOA # 02-0122.02"



Herminio F. Gonzalez, P.E.
Director, Product Control Division

NOA No 04-0506.01

Expiration Date: April 25, 2007

Approval Date: August 05, 2004

Traco Security Windows & Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Anchor Calculations, ASTM-E 1300, and structural analysis, prepared by Frank L. Bennardo, P.E. Consulting Engineer, dated 04/27/04 signed and sealed by Frank L. Bennardo, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None

F. STATEMENTS

1. Letter from *Traco/Security Aluminum Windows*, dated March 25, 1999, stating that the product has not changed since it was originally approved, and that the engineer of the product is still in the engineering business, signed by Javier Garcia. ***"Submitted under NOA # 02-0122.02"***
2. Letter of Compliance from *Al-Farooq Corp.*, dated March 23, 1999, signed and sealed by Dr. H. Farooq, P.E. ***"Submitted under NOA # 02-0122.02"***
3. Statement letter of no financial interest, dated May 03, 2004, signed and sealed by Frank L. Bennardo, P.E.

G. OTHER

1. This file revises NOA# **02-0122.02**, expiring April 25, 2007
2. Letter from consultant stating that the product is in compliance with the Florida Building Code (FBC).



Herminio F. Gonzalez, P.E.
Director, Product Control Division
NOA No 04-0506.01
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DESIGN LOAD CAPACITY (PSF)

WINDOW WIDTH (in)	WINDOW HEIGHT (in)	3/16" ANNEALED		3/16" TEMPERED		1/2" INSUL. ANNEALED		1/2" INSUL. TEMPERED	
		POS (psf)	NEG (psf)	POS (psf)	NEG (psf)	POS (psf)	NEG (psf)	POS (psf)	NEG (psf)
19.13	26.00	60.0	99.2	70.0	180.6	60.0	99.2	70.0	171.1
26.50		60.0	90.6	70.0	164.8	60.0	90.6	70.0	156.2
37.00		60.0	70.7	70.0	129.4	60.0	71.2	70.0	122.7
53.13		47.6	47.6	70.0	111.2	49.4	49.4	70.0	105.4
19.13	38.375	60.0	83.6	70.0	152.0	60.0	80.0	70.0	144.1
26.50		60.0	66.6	70.0	125.8	60.0	69.2	70.0	119.3
37.00		53.9	53.9	70.0	113.9	60.0	60.3	70.0	108.0
53.13		39.5	39.5	70.0	89.1	43.9	43.9	70.0	84.4
19.13	50.625	60.0	77.4	70.0	140.7	60.0	60.7	70.0	133.4
26.50		49.1	49.1	70.0	111.6	52.8	52.8	70.0	105.8
37.00		41.7	41.7	70.0	93.0	46.8	46.8	70.0	88.1
53.13		34.3	34.3	70.0	82.4	34.8	34.8	70.0	78.1
19.13	57.00	60.0	73.2	70.0	137.2	55.2	55.2	70.0	130.0
26.50		43.5	43.5	70.0	107.3	44.9	44.9	70.0	101.7
37.00		37.3	37.3	70.0	87.4	42.3	42.3	70.0	82.8
53.13		30.9	30.9	70.0	77.0	31.3	31.3	70.0	72.9
19.13	63.00	60.0	70.2	70.0	134.6	52.4	52.4	70.0	127.6
26.50		40.2	40.2	70.0	104.3	38.9	38.9	70.0	98.9
37.00		32.8	32.8	70.0	83.5	38.1	38.1	70.0	79.2
53.13		28.6	28.6	70.0	71.1	28.3	28.3	67.3	67.3
19.13	74.25	60.0	65.9	70.0	131.0	48.7	48.7	70.0	124.2
26.50		36.4	36.4	70.0	100.3	31.8	31.8	70.0	95.1
37.00		26.4	26.4	70.0	78.6	30.1	30.1	70.0	74.5
53.13		24.5	24.5	64.0	64.0	25.1	25.1	60.7	60.7
24.00	24.00	60.0	100.0	70.0	181.9	60.0	100.0	70.0	172.4
36.00		60.0	75.0	70.0	136.4	60.0	75.0	70.0	129.3
48.00		56.4	56.4	70.0	121.3	56.4	56.4	70.0	115.0
60.00		48.1	48.1	70.0	113.7	42.3	42.3	70.0	107.8
72.00	43.2	43.2	70.0	109.2	35.2	35.2	70.0	103.5	
24.00	36.00	60.0	75.0	70.0	136.4	60.0	75.0	70.0	129.3
36.00		58.2	58.2	70.0	121.3	60.0	65.5	70.0	115.0
48.00		44.9	44.9	70.0	97.0	50.4	50.4	70.0	92.0
60.00		35.4	35.4	70.0	86.6	40.8	40.8	70.0	82.1
72.00	27.7	27.7	70.0	80.9	33.5	33.5	70.0	76.6	
24.00	48.00	56.4	56.4	70.0	121.3	56.4	56.4	70.0	115.0
36.00		44.9	44.9	70.0	97.0	50.4	50.4	70.0	92.0
48.00		38.7	38.7	70.0	91.0	39.7	39.7	70.0	86.2
60.00		31.9	31.9	70.0	75.8	32.9	32.9	70.0	71.9
72.00	26.5	26.5	68.2	68.2	27.8	27.8	64.7	64.7	
24.00	60.00	48.1	48.1	70.0	113.7	42.3	42.3	70.0	107.8
36.00		35.4	35.4	70.0	86.6	40.8	40.8	70.0	82.1
48.00		31.9	31.9	70.0	75.8	32.9	32.9	70.0	71.9
60.00		27.2	27.2	70.0	72.8	26.8	26.8	69.0	69.0
72.00	23.4	23.4	62.4	62.4	23.1	23.1	59.1	59.1	
24.00	72.00	43.2	43.2	70.0	109.2	35.2	35.2	70.0	103.5
36.00		27.7	27.7	70.0	80.9	33.5	33.5	70.0	76.6
48.00		26.5	26.5	68.2	68.2	27.8	27.8	64.7	64.7
60.00		23.4	23.4	62.4	62.4	23.1	23.1	59.1	59.1
72.00	20.1	20.1	60.6	60.6	18.9	18.9	57.5	57.5	
24.00	84.00	40.5	40.5	70.0	106.1	31.6	31.6	70.0	100.6
36.00		23.1	23.1	70.0	77.2	26.9	26.9	70.0	73.2
48.00		22.3	22.3	63.7	63.7	24.8	24.8	60.4	60.4
60.00		20.2	20.2	56.6	56.6	19.8	19.8	53.7	53.7
72.00	17.7	17.7	53.1	53.1	17.2	17.2	50.3	50.3	
24.00	96.00	38.9	38.9	70.0	104.0	29.1	29.1	70.0	98.5
36.00		20.1	20.1	70.0	74.6	22.6	22.6	70.0	70.7
48.00		18.9	18.9	60.6	60.6	21.9	21.9	57.5	57.5
60.00		17.9	17.9	52.9	52.9	17.9	17.9	50.2	50.2
72.00	15.5	15.5	48.5	48.5	15.7	15.7	46.0	46.0	

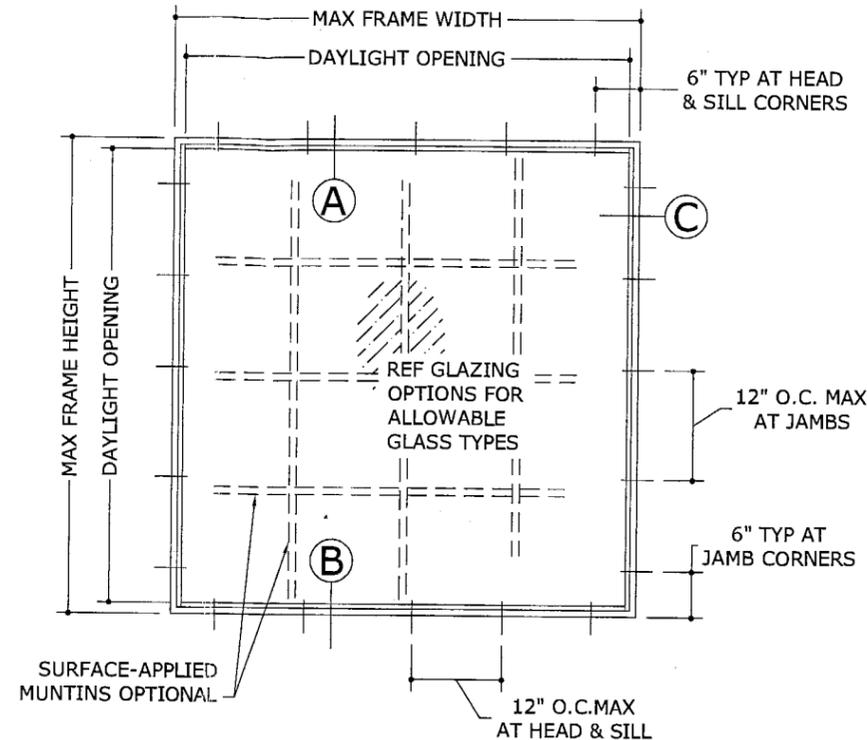
SERIES 2100 FIXED WINDOW

(NON-IMPACT RESISTANT)

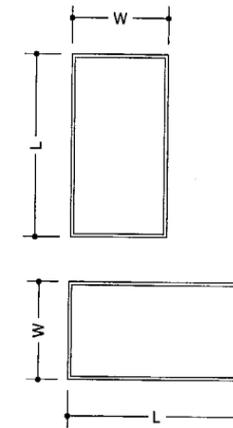
FRANK L. BENNARDO, P.E.
PE0046549

06/11/2004

FRANK L. BENNARDO, P.E., INC.
CONSULTING ENGINEERS
4441 NORTH DIXIE HIGHWAY
BOCA RATON, FL 33431
(561) 391-2888 FAX: (561) 391-2862
WWW.FLBENGINEERING.COM



1 TYPICAL EXTERIOR ELEVATION
3/4" = 1'-0"



NOTE:
WIDTH AND LENGTH DIMENSIONS
CAN BE ORIENTED VERTICALLY OR
HORIZONTALLY AS SHOWN ABOVE.

GENERAL NOTES:

- 1) THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN COMPLIANCE WITH THE FLORIDA BUILDING CODE 2001 (HIGH VELOCITY HURRICANE ZONE) AND HVHZ TEST PROTOCOL TAS 202.
- 2) A 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM.
- 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) MULTIPLE WINDOW UNITS MUST BE INSTALLED USING MIAMI-DADE COUNTY BCCO-APPROVED STRUCTURAL MULLIONS (e.g. NOA #01-1218.01 OR #01-1218.02).
- 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.
- 7) ALL WINDOWS SHALL BE PROTECTED WITH MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS FOR ALL INSTALLATIONS.
- 8) ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED IN ACCORDANCE WITH THE 2001 FLORIDA BUILDING CODE.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 04-0506.P1
Expiration Date 04/25/07
By: [Signature]
Miami Dade Product Control
Division

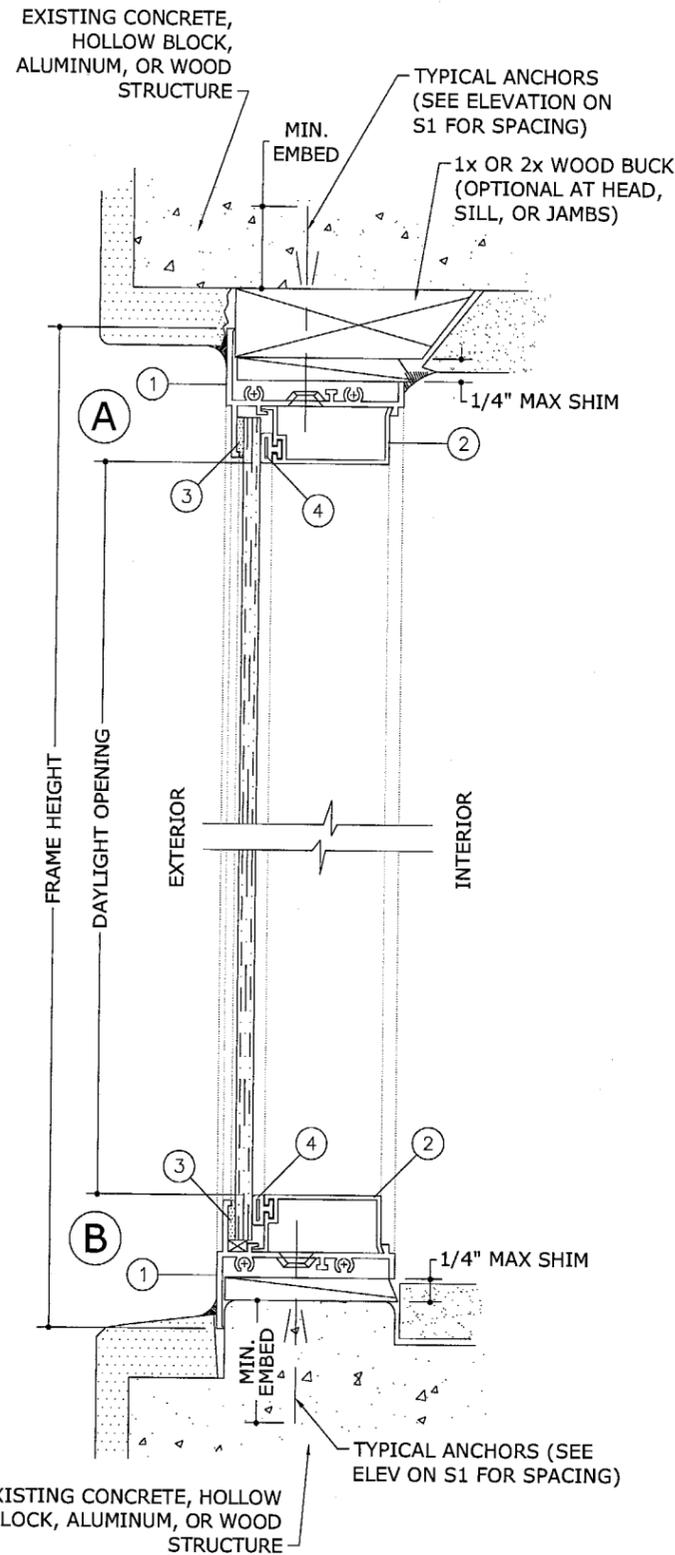
TRACO
Windows & Doors Inc.
71 Progress Avenue
Cranberry Township, PA 16166
Tel: (724) 776-7000
SERIES 2100 ALUMINUM FIXED WINDOW
NON-IMPACT RESISTANT

REMARKS	DATE	CHKD	DATE
INIT ISSUE	5/3/04	FLB	5/3/04
COUNTY COMMENTS		FLB	8/11/04

04-113-0003

PAGE SCALE:
DESCRIPTION:

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06/11/2004 - 10:35am
clangley



1
2 6" = 1'-0"

SINGLE GLAZED VERTICAL SECTION

WOOD BUCKS, NOT BY TRACO, MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS:

- 1) 3/16" TAPCONS (BY ELCO OR ITW) OR EQUIV CONC ANCHOR HOLDING CURRENT NOTICE OF ACCEPTANCE.
 - INTO 2x WOOD BUCKS OR WOOD STRUCTURE (1-3/8" MIN PENETRATION INTO WOOD).
 - THRU 1x WOOD BUCKS INTO MASONRY OR DIRECTLY INTO MASONRY (1-1/4" MIN EMBED INTO CONCRETE OR MASONRY).
- 2) #10 THREAD-FORMING SAE GRADE 5 SCREW TO 6063-T5 OR 6063-T6 ALUMINUM (1/8" MIN THICKNESS).

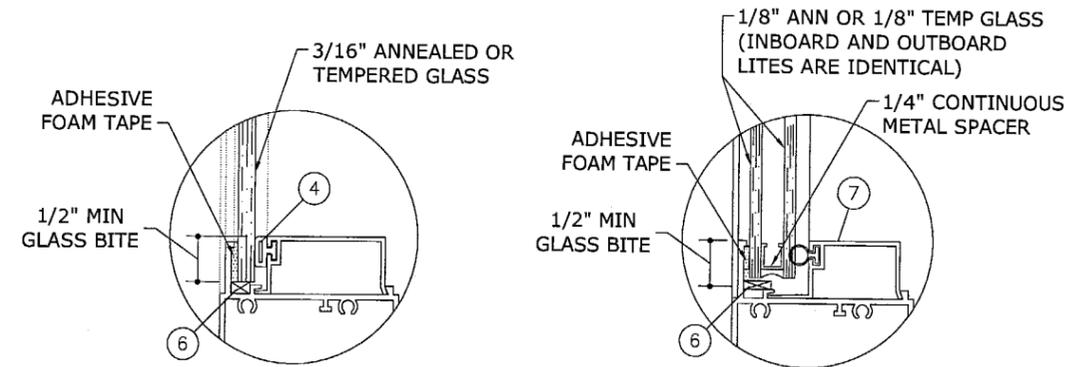
SEALANT:

ALL FRAME AND VENT CORNERS, AND HEADS OF INSTALLATION SCREWS AT SILL TO BE SEALED WITH WHITE/ALUM COLORED SEALANT, FIXED MEETING RAIL AT ENDS SEALED WITH GE SILICONE.

ANCHOR NOTES:

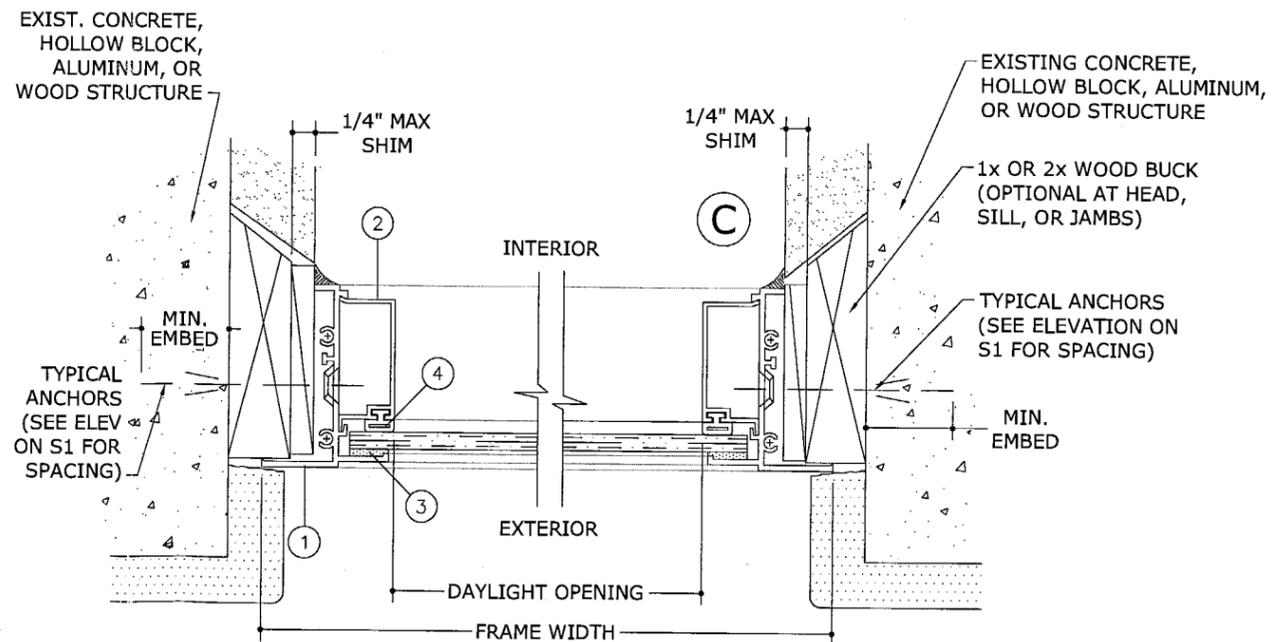
- 1) ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- 2) WOOD BUCKS (NOT BY THIS MANUFACTURER) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
- 3) WOOD BUCKS AND/OR HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
- 4) ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN HEREIN. MINIMUM EDGE DISTANCE AND EMBEDMENT TO BASE STRUCTURE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
- 5) WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS.

MATERIALS LIST						
ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MFR/SUPLIER/REMARKS	
1	050-00-015	4/ WINDOW	FRAME	ALUMINUM	6063-T5	
2	050-00-032	4/ WINDOW	GLAZING BEAD (SINGLE)	ALUMINUM	6063-T5	
3	026-16-010	AS REQD.	3/16" X 1/2" GLAZING TAPE	BUTYL	-	
4	046-16-010	-	BULB VINYL	VINYL	-	
5	012-02-835	2/ CORNER	#8x1" PPH METAL SCREWS	S.S.	ASSEMBLY SCREWS	
6	046-16-107	AS REQD.	SETTING BLOCK, 1" LONG	RIGID VINYL	-	
7	050-00-062	4/ WINDOW	GLAZING BEAD (INSUL.)	ALUMINUM	6063-T5	



3
2 6" = 1'-0"

GLAZING DETAILS



2
2 6" = 1'-0"

SINGLE GLAZED HORIZONTAL SECTION

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 04-0506.01
Expiration Date 04/25/07
By: *[Signature]*
Miami Code Product Control Division

FRANK L. BENNARDO, P.E.
PE0046549

06/11/2004

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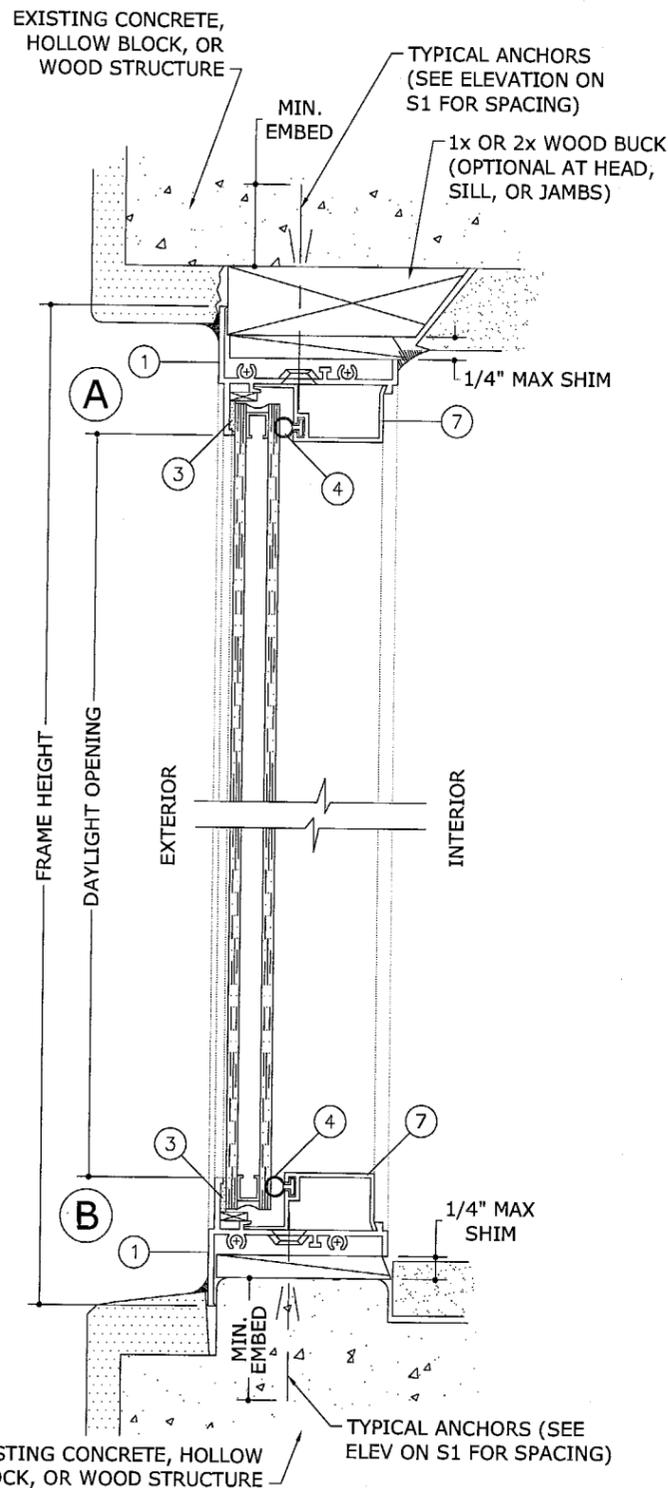
SERIES 2100 ALUMINUM FIXED WINDOW
NON-IMPACT RESISTANT

REMARKS	INIT	ISSUE	DATE
	CL	FLB	5/3/04
	CL	FLB	6/11/04
	CL	FLB	
	CL	FLB	

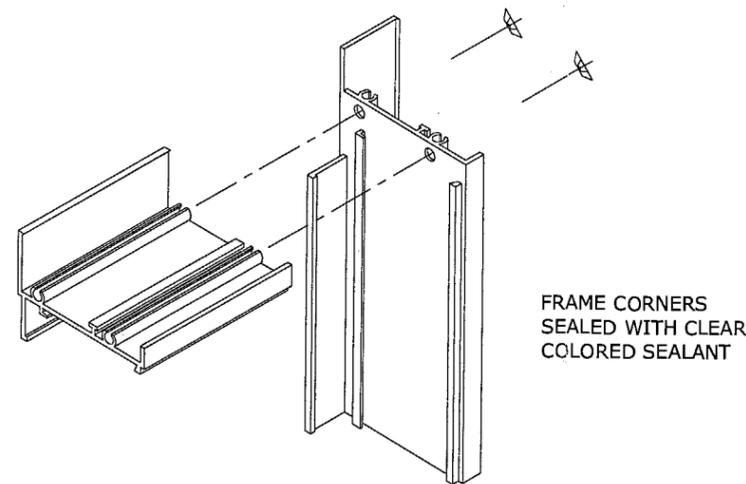
04-113-0003

PAGE SCALE:
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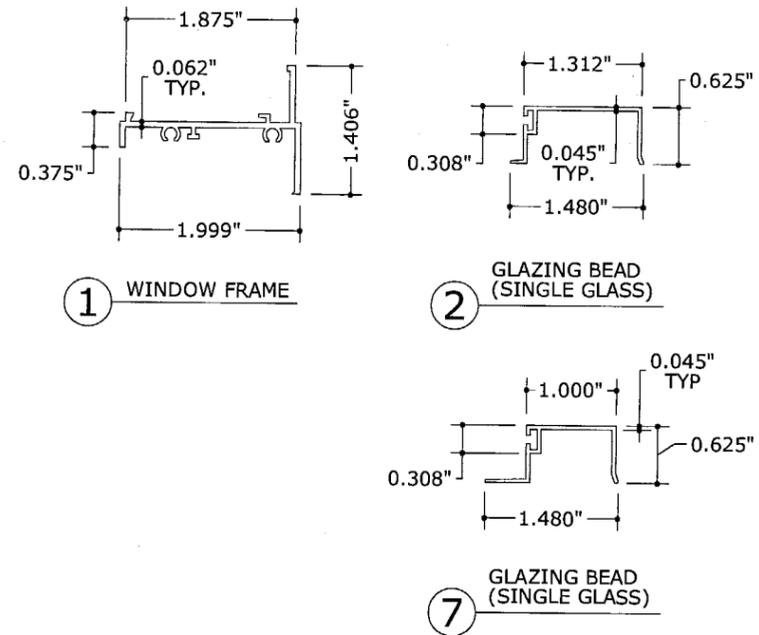
06/11/2004 - 10:35am clangley F:\Project Data\client Project Files\Traco\04-113-0003 2100 Fixed Window (Non-Impact).dwg



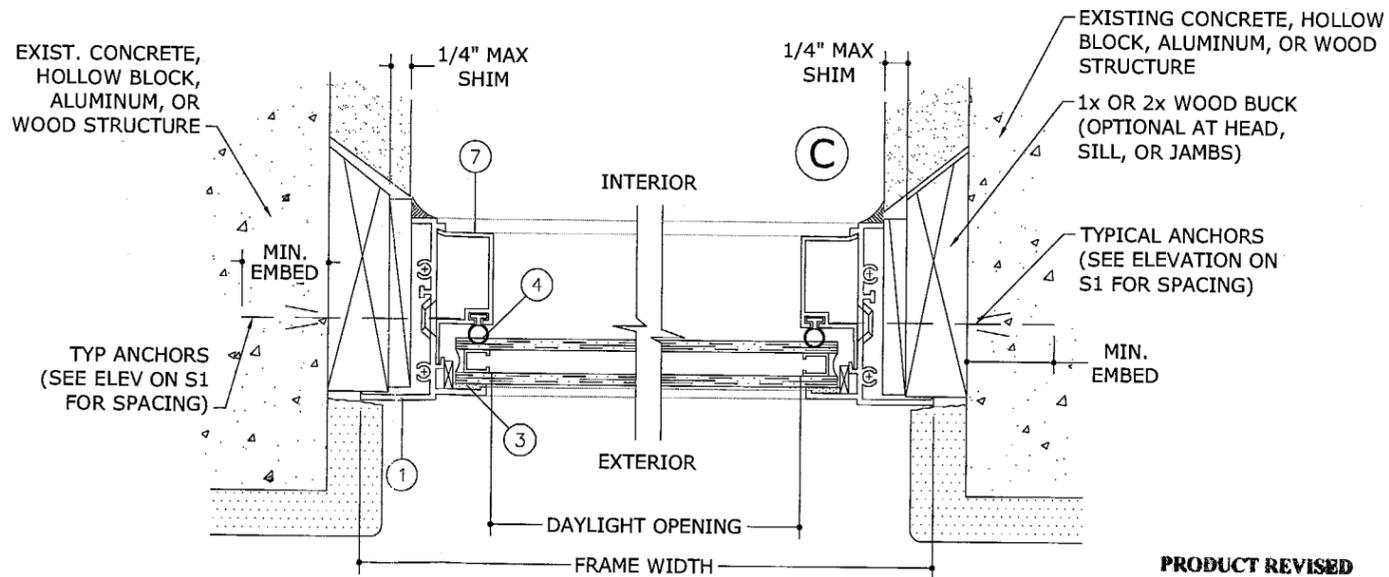
1 INSUL. DOUBLE GLAZED VERTICAL SECTION
3 6" = 1'-0"



3 FRAME CORNER ASSEMBLY
3 N.T.S.



4 EXTRUSIONS
3 6" = 1'-0"



2 INSUL. DOUBLE GLAZED HORIZONTAL SECTION
3 6" = 1'-0"

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 04-0506.01
 Expiration Date 04/25/07
 By: *Michael D. Smith*
 Miami Dade Product Control
 Division

FRANK L. BENNARDO, P.E.
 # PE0046549

06/11/2004

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TRACO
 Windows & Doors Inc.
 71 Progress Avenue
 Cranberry Township, PA 16166
 Tel: (724) 776-7000

SERIES 2100 ALUMINUM FIXED WINDOW
 NON-IMPACT RESISTANT

REMARKS	INIT	ISSUE	COUNTY	COMMENTS	DWN	CHKD	DATE
	CL	FLB	CL		CL	FLB	5/3/04
							6/11/04

04-113-0003

PAGE SCALE:
 DESCRIPTION:

3