



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.maimidade.gov/buildingcode

Traco Security Windows & Doors, Inc.
71 Progressive Ave
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 "(140) 440" Aluminum Single Hung Window – S.M.I.

APPROVAL DOCUMENT: Drawing No. **03-0809-113a**, titled "Series SH-440 Aluminum Single-Hung Window (Small Missile SH-440)", sheets 1 through 5 of 5, dated 08/04/03 with revision "4" dated 05/16/08, prepared by Engineering Express, dated 07/30/08, 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: Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name:

TRACO
71 Progress Avenue
Cranberry Township, PA 16066

TRACO
2304 Silverdale Road
Johnson City, TN 37601

Security (TRACO)
5100 N.W. 72nd Avenue
Miami, FL 33166

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 and renews NOA # 06-1205.09** 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 **Manuel Perez, P.E.**



NOA No. 08-0527.14
Expiration Date: June 10, 2012
Approval Date: August 21, 2008
 Page 1

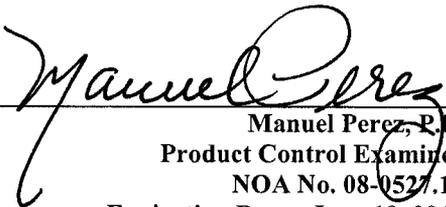
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **03-0809-113a**, titled "Series SH-440 Aluminum Single-Hung Window (Small Missile SH-440)", sheets 1 through 5 of 5, dated 08/04/03 with revision "4" dated 05/16/08, prepared by Engineering Express, signed and sealed 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) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
Along with marked-up drawings and installation diagram of aluminum single hung window, prepared by Architectural Testing, Inc., Test Report No. **ATI 81726.01-501-18**, dated 04/17/08, signed and sealed by Michael D. Stremmel, 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) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
Along with marked-up drawings and installation diagram of aluminum single hung window, prepared by Architectural Testing, Inc., Test Report No. **ATI 81128.01-501-18**, dated 04/14/08, signed and sealed by Michael D. Stremmel, P.E.
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
Along with marked-up drawings and installation diagram of aluminum single hung window, prepared by Architectural Testing, Inc., Test Report No. **ATI 81127.01-501-18**, dated 04/10/08, signed and sealed by Michael D. Stremmel, P.E.
4. Test reports on: 1) Small Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
Along with marked-up drawings and installation diagram of aluminum single hung window, prepared by Farabaugh Engineering and Testing, Inc., Test Report No. **FET-T191-06**, dated 08/03/06, signed and sealed by Daniel Farabaugh, P.E.
(Submitted under NOA# 06-1205.09)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-0527.14

Expiration Date: June 10, 2012
Approval Date: August 21, 2008

Traco Security Windows & Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

5. Test report on: 1) Small Missile Impact Test per SFBC, PA 201-94
2) Cyclic Wind Pressure Loading per SFBC, PA 203-94
along with marked-up drawings and installation diagram of a reinforced aluminum single hung window, prepared by American Testing Lab of South Florida, Test Report No. **ATL-0608.02-00**, dated 06/21/00, signed and sealed by William R. Mehner, P.E.
(Submitted under NOA# 00-0920.04)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2004, prepared by Engineering Express, dated 07/30/08, signed and sealed by Frank L. Bennardo, P.E.
Complies with ASTM E1300-02

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

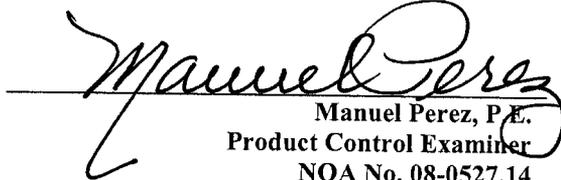
1. Notice of Acceptance No. **05-1208.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite PVB, Interlayer**" dated 01/05/06, expiring on 12/11/10.
2. Notice of Acceptance No. **08-0206.01** issued to Solutia Inc. for their "**Saflex HP Glass Interlayer**" dated 04/17/08, expiring on 04/17/13.
3. Notice of Acceptance No. **07-0831.06** issued to Cardinal LG for their "**Laminated Glass Cardinal Sea-Storm Type B**", dated 10/11/07, expiring on 12/30/12.

F. STATEMENTS

1. Statement letter of conformance, prepared by Engineering Express, dated May 16, 2008, signed and sealed by Frank L. Bennardo, P.E.
2. Statement letter of no financial interest, prepared by Engineering Express, dated May 16, 2008, signed and sealed by Frank L. Bennardo, P.E.
3. Laboratory compliance letter for Test Report No. **ATI 81726.01-501-18, ATI 81128.01-501-18 and ATI 81127.01-501-18**, issued by Architectural Testing, Inc., dated April 22, 2008, signed and sealed by Michael D. Stremmel, P.E.

G. OTHERS

1. Notice of Acceptance No. **06-1205.09**, issued to Traco Security Windows & Doors, Inc. for their Series "(140) 440" Aluminum Single Hung Window", approved on 04/19/07 and expiring on 06/10/08.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-0527.14
Expiration Date: June 10, 2012
Approval Date: August 21, 2008

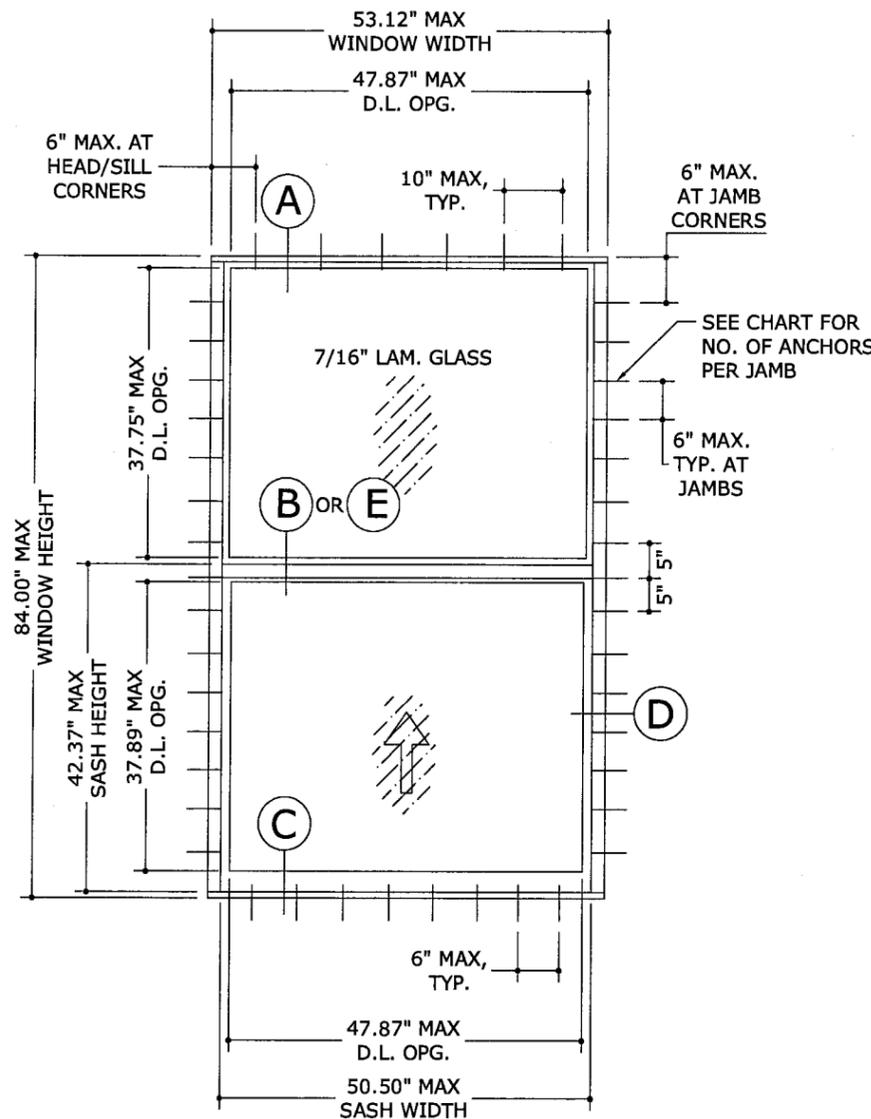
SH-440 SINGLE-HUNG WINDOW

SMALL MISSILE IMPACT RESISTANT

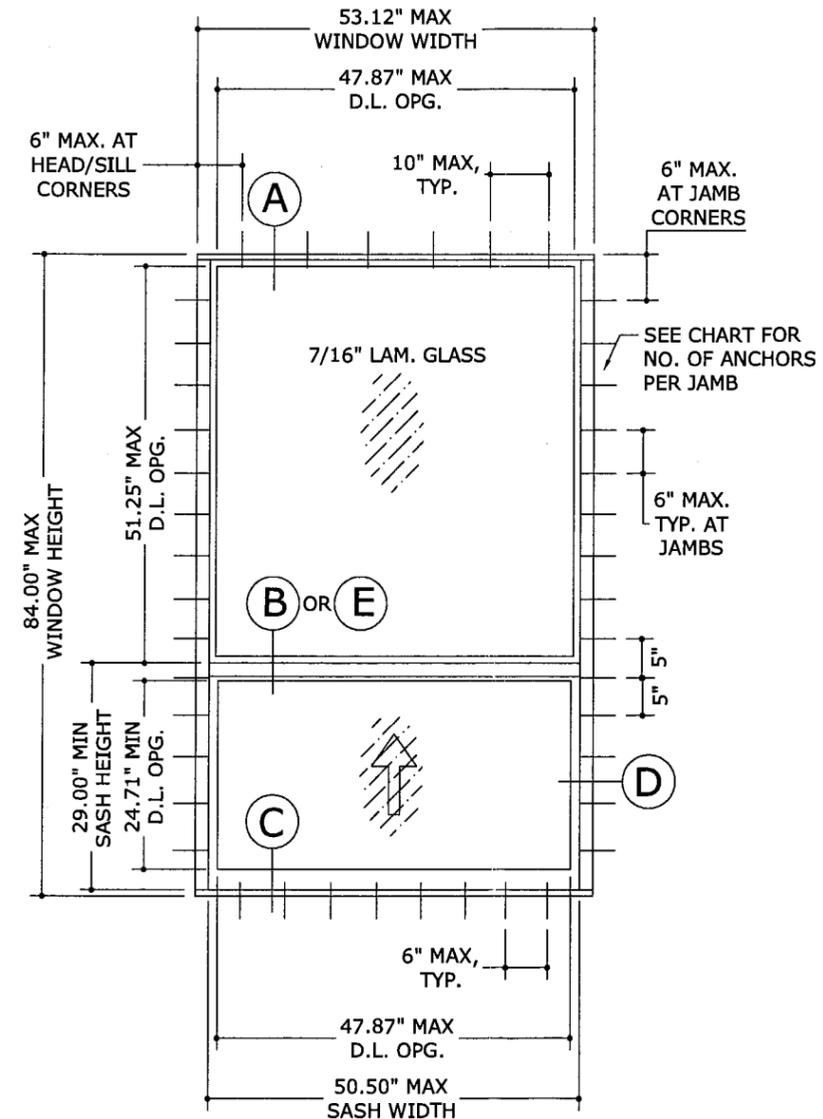
FRANK L. BENNARDO, P.E.
PE0046549

07/30/2008

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 #9895
A FRANK L. BENNARDO, P.E., INC. INNOVATION



TYPICAL ELEVATION
EQUAL LITES



TYPICAL ELEVATION
UNEQUAL LITES (FULL VIEW)

GENERAL NOTES:

1. THE SINGLE-HUNG WINDOW SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN COMPLIANCE WITH THE 2004 & 2007 FLORIDA BUILDING CODES, HIGH VELOCITY HURRICANE ZONES, AND MIAMI-DADE COUNTY PROTOCOLS TAS 201, 202 & 203.
2. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS WINDOW SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
3. THE WINDOW SYSTEM DETAILED HEREIN HAS BEEN TESTED PER MIAMI-DADE COUNTY PROTOCOLS TAS-201, TAS-202, & TAS-203.
4. MULTIPLE WINDOW UNITS MUST BE INSTALLED USING MIAMI-DADE COUNTY BCCO-APPROVED STRUCTURAL MULLIONS (e.g. NOA #07-0828.05 OR #07-0828.06).
5. THE WINDOW 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 (NOT BY TRACO) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
7. ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO
8. THIS PRODUCT IS SMALL MISSILE IMPACT RESISTANT AND SHALL BE PROTECTED WITH MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS FOR INSTALLATIONS UP TO 30 FEET ABOVE GRADE. NO PROTECTION REQUIRED FOR INSTALLATIONS ABOVE 30 FEET ABOVE GRADE.
9. ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED.

REFERENCE DESIGN SCHEDULES FOR ALLOWABLE DESIGN PRESSURES:

DESIGN SCHEDULE ①: STANDARD MEETING RAIL
DESIGN SCHEDULE ②: REINFORCED MEETING RAIL

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

SERIES SH-440 ALUMINUM SINGLE-HUNG WINDOW (SMALL MISSILE SH-440)

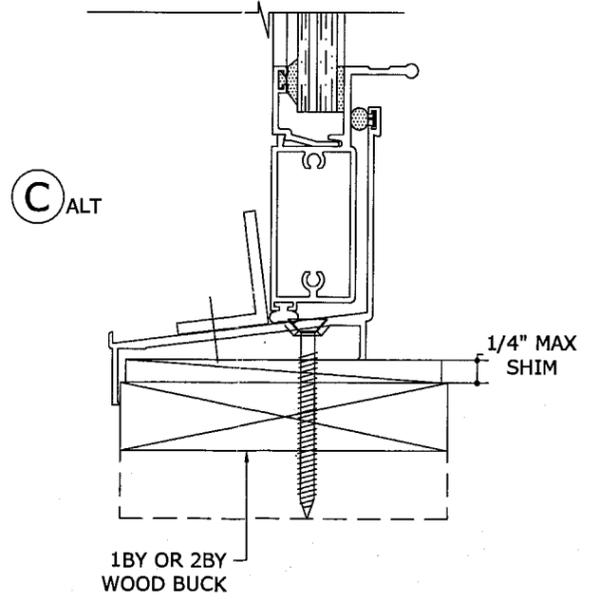
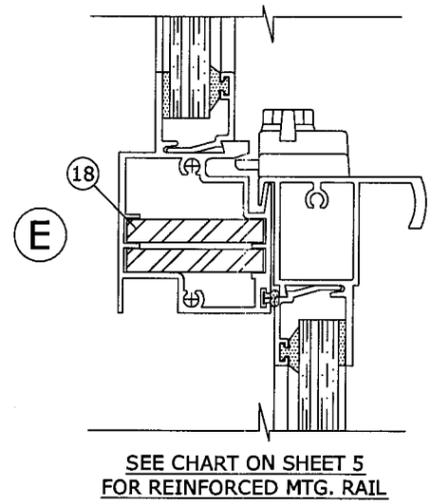
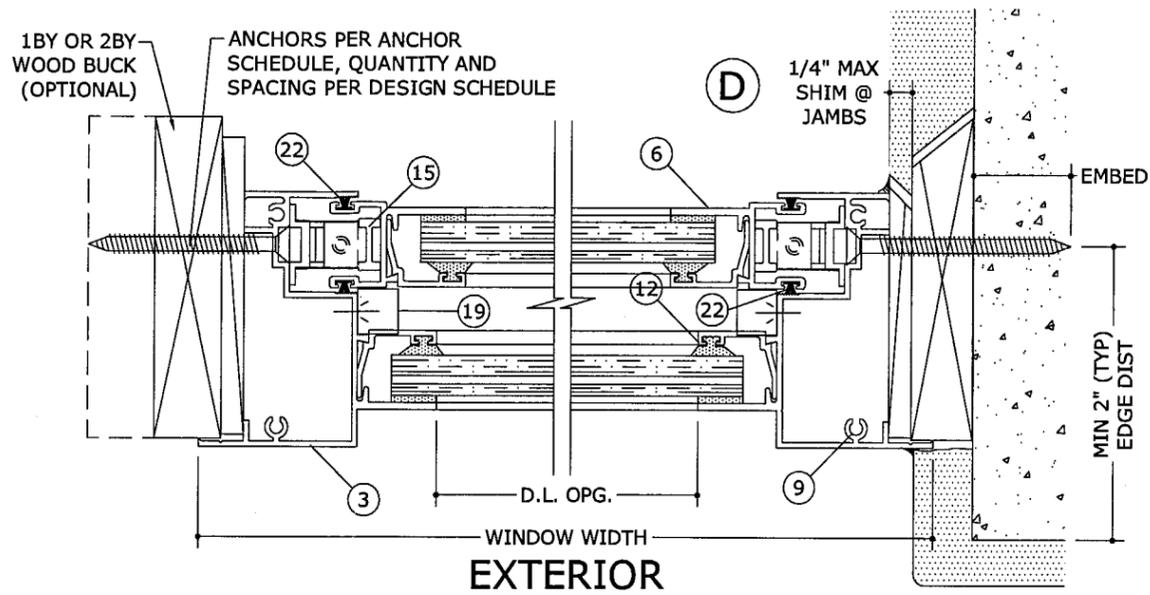
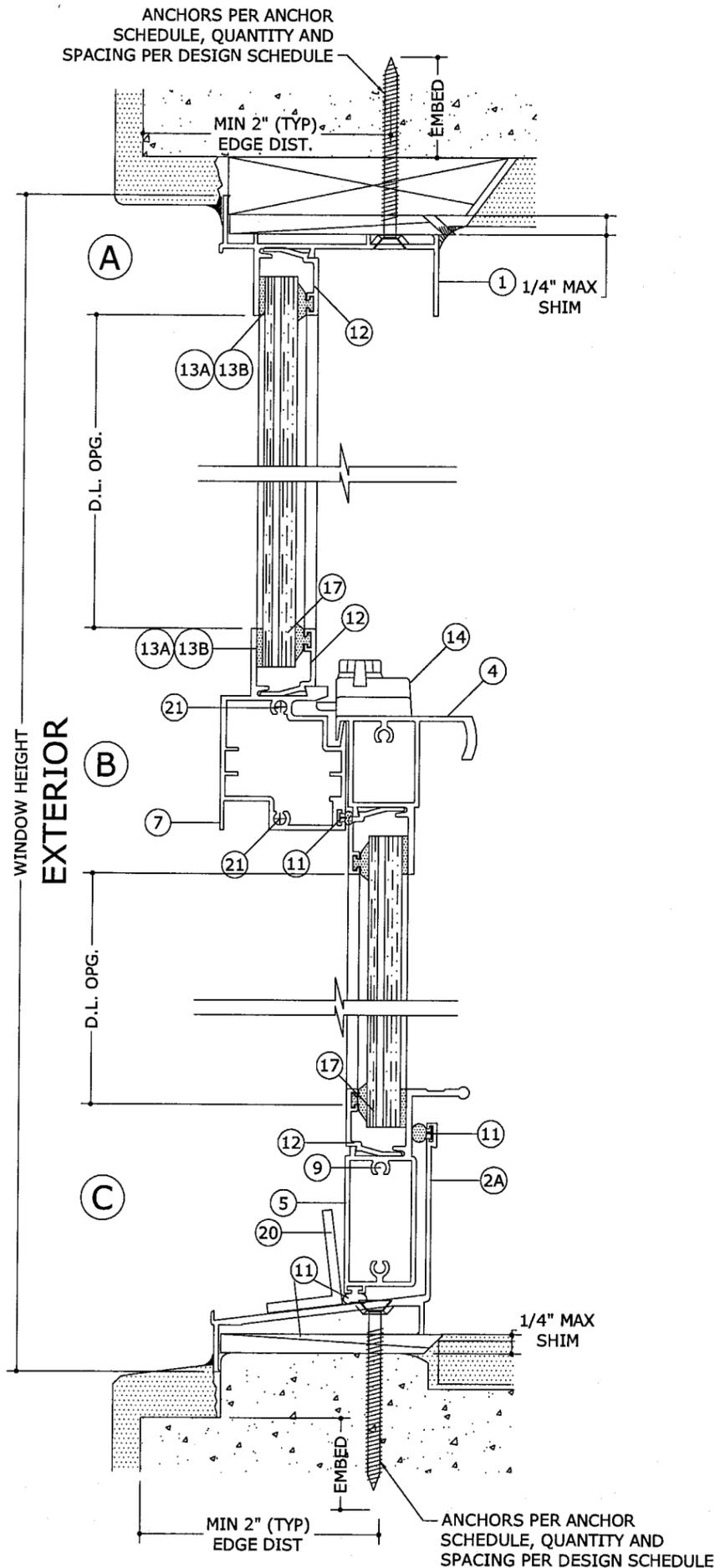
REMARKS	DRWN	CHKD	DATE
INIT ISSUE	CL	FLB	08/04/03
REV 1 - COUNTY COMMENT	CL	FLB	10/02/03
REV 2 - SMALL/JON SPLIT	CL	FLB	01/28/04
REV 3 - 2004 FBC	CL	FLB	07/13/05
REV 4 - 2007 FBC	RKB	CL	05/16/08

03-0809-113a
SCALE: 01
PAGE DESCRIPTION:

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 08-0527.14
Expiration Date 06/10/2012
By *Mmanuel Perez*
Miami Dade Product Control Division

F:\01 Project Files\Traco (TRA)\2003 Jobs\03-0809-113a Traco C-140 Single-Hung (NOA)\Traco C-140 Single-Hung, Small Missile (440) (03-0809-113a) REV6.3.dwg
07/30/2008 - 3:57pm
rbartlett

07/30/2008 - 3:37pm rbarlett F:\01 Project Files\Traco (TRA)\2003 Jobs\03-0809-113a Traco C-140 Single-Hung, Small Missile (440) (03-0809-113a) REV6.3.dwg



PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No **08-0527.14**
 Expiration Date **06/10/2012**
 By *Manuel Perez*
 Miami Dade Product Control
 Division

FRANK L. BENNARDO, P.E.
 # PE0046549

07/30/2008

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
 Tel: (724) 776-7000

SERIES SH-440 ALUMINUM SINGLE-HUNG
 WINDOW (SMALL MISSILE SH-440)

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	CL	FLB	08/04/03
REV 1 - COUNTY COMMENT	CL	FLB	10/02/03
REV 2 - SMALLINON SPLIT	CL	FLB	01/28/04
REV 3 - 2004 FBC	CL	FLB	07/13/05
REV 4 - 2007 FBC	RKB	CL	05/16/08

03-0809-113a

SCALE: **01**

PAGE DESCRIPTION:

2

DESIGN SCHEDULE ①

STANDARD MEETING RAIL													
WINDOW DIMENSIONS		EQUAL LITES						UNEQUAL LITES					
		3/16" TAPCONS			1/4" TAPCONS			3/16" TAPCONS			1/4" TAPCONS		
		7/16" LAM GLASS			7/16" LAM GLASS			7/16" LAM GLASS			7/16" LAM GLASS		
		(4) ANCHORS AT MTG RAIL			(3) ANCHORS AT MTG RAIL			(4) ANCHORS AT MTG RAIL			(3) ANCHORS AT MTG RAIL		
WIDTH (in)	HEIGHT (in)	ANCHOR QTY*	DESIGN LOAD CAPACITY (PSF)		ANCHOR QTY*	DESIGN LOAD CAPACITY (PSF)		ANCHOR QTY*	DESIGN LOAD CAPACITY (PSF)		ANCHOR QTY*	DESIGN LOAD CAPACITY (PSF)	
19 1/8	38 3/8	6	+80.0	-98.3	7	+80.0	-151.8	8	+80.0	-80.0	7	+80.0	-80.0
26 1/2		6	+80.0	-98.3	7	+80.0	-151.8	8	+80.0	-80.0	7	+80.0	-80.0
37		6	+80.0	-98.3	7	+80.0	-151.8	8	+80.0	-80.0	7	+80.0	-80.0
53 1/8		6	+80.0	-84.7	7	+80.0	-139.9	8	+80.0	-63.1	7	+80.0	-80.0
19 1/8	50 5/8	8	+80.0	-120.1	9	+80.0	-151.8	9	+80.0	-80.0	8	+80.0	-80.0
26 1/2		8	+80.0	-100.9	9	+80.0	-151.8	9	+80.0	-80.0	8	+80.0	-80.0
37		8	+80.0	-86.1	9	+80.0	-151.8	9	+80.0	-80.0	8	+80.0	-80.0
53 1/8		8	+80.0	-69.0	9	+80.0	-114.1	9	+80.0	-63.1	8	+80.0	-80.0
19 1/8	58	10	+80.0	-145.0	9	+80.0	-151.8	10	+80.0	-80.0	9	+80.0	-80.0
26 1/2		10	+80.0	-100.7	9	+80.0	-151.8	10	+80.0	-80.0	9	+80.0	-80.0
37		10	+80.0	-81.3	9	+80.0	-151.8	10	+80.0	-80.0	9	+80.0	-80.0
53 1/8		10	+80.0	-63.1	9	+80.0	-104.3	10	+80.0	-63.1	9	+80.0	-80.0
19 1/8	63	10	+80.0	-129.3	11	+80.0	-151.8	11	+80.0	-80.0	10	+80.0	-80.0
26 1/2		10	+80.0	-100.7	11	+80.0	-151.8	11	+80.0	-80.0	10	+80.0	-80.0
37		10	+80.0	-79.2	11	+80.0	-151.8	11	+80.0	-78.0	10	+80.0	-80.0
53 1/8		10	+80.0	-60.1	11	+80.0	-99.2	11	+80.0	-57.6	10	+80.0	-80.0
19 1/8	74 1/4	12	+80.0	-137.2	13	+80.0	-151.8	13	+80.0	-80.0	12	+80.0	-80.0
26 1/2		12	+80.0	-100.7	13	+80.0	-151.8	13	+80.0	-80.0	12	+80.0	-80.0
37		12	+80.0	-77.5	13	+80.0	-151.8	13	+80.0	-77.5	12	+80.0	-80.0
53 1/8		12	+80.0	-55.1	13	+80.0	-91.1	13	+80.0	-51.2	12	+80.0	-80.0
19 1/8	84	14	+80.0	-145.0	15	+80.0	-151.8	15	+80.0	-80.0	14	+80.0	-80.0
26 1/2		14	+80.0	-100.7	15	+80.0	-151.8	15	+80.0	-80.0	14	+80.0	-80.0
37		14	+80.0	-77.5	15	+80.0	-151.8	15	+80.0	-77.5	14	+80.0	-80.0
41		14	+80.0	-63.1	15	+80.0	-138.9	15	+80.0	-63.1	14	+80.0	-80.0
53 1/8		14	+80.0	-52.4	15	+80.0	-86.6	15	+80.0	-50.1	14	+80.0	-80.0

*ANCHOR QTY. INDICATES MINIMUM NUMBER OF ANCHORS PER JAMB

DESIGN SCHEDULE ②

REINFORCED MEETING RAIL													
WINDOW DIMENSIONS		EQUAL LITES						UNEQUAL LITES					
		1/4" TAPCONS			1/4" TAPCONS			1/4" TAPCONS			1/4" TAPCONS		
		7/16" LAM GLASS			7/16" LAM GLASS			7/16" LAM GLASS			7/16" LAM GLASS		
		(4) ANCHORS AT MTG RAIL			(4) ANCHORS AT MTG RAIL			(4) ANCHORS AT MTG RAIL			(4) ANCHORS AT MTG RAIL		
WIDTH (in)	HEIGHT (in)	ANCHOR QTY*	DESIGN LOAD CAPACITY (PSF)		ANCHOR QTY*	DESIGN LOAD CAPACITY (PSF)		ANCHOR QTY*	DESIGN LOAD CAPACITY (PSF)		ANCHOR QTY*	DESIGN LOAD CAPACITY (PSF)	
19 1/8	38 3/8	6	+80.0	-151.8	8	+80.0	-151.8	8	+80.0	-151.8	8	+80.0	-151.8
26 1/2		6	+80.0	-151.8	8	+80.0	-151.8	8	+80.0	-151.8	8	+80.0	-151.8
37		6	+80.0	-151.8	8	+80.0	-151.8	8	+80.0	-151.8	8	+80.0	-151.8
53 1/8		6	+80.0	-151.8	8	+80.0	-151.8	8	+80.0	-151.8	8	+80.0	-139.0
19 1/8	50 5/8	8	+80.0	-151.8	9	+80.0	-151.8	9	+80.0	-151.8	9	+80.0	-151.8
26 1/2		8	+80.0	-151.8	9	+80.0	-151.8	9	+80.0	-151.8	9	+80.0	-151.8
37		8	+80.0	-151.8	9	+80.0	-151.8	9	+80.0	-151.8	9	+80.0	-151.8
53 1/8		8	+80.0	-151.8	9	+80.0	-151.8	9	+80.0	-151.8	9	+80.0	-139.0
19 1/8	58	10	+80.0	-151.8	10	+80.0	-151.8	10	+80.0	-151.8	10	+80.0	-151.8
26 1/2		10	+80.0	-151.8	10	+80.0	-151.8	10	+80.0	-151.8	10	+80.0	-151.8
37		10	+80.0	-151.8	10	+80.0	-151.8	10	+80.0	-151.8	10	+80.0	-151.8
53 1/8		10	+80.0	-139.0	10	+80.0	-139.0	10	+80.0	-139.0	10	+80.0	-139.0
19 1/8	63	10	+80.0	-151.8	11	+80.0	-151.8	11	+80.0	-151.8	11	+80.0	-151.8
26 1/2		10	+80.0	-151.8	11	+80.0	-151.8	11	+80.0	-151.8	11	+80.0	-151.8
37		10	+80.0	-151.8	11	+80.0	-151.8	11	+80.0	-151.8	11	+80.0	-151.8
53 1/8		10	+80.0	-132.2	11	+80.0	-126.8	11	+80.0	-126.8	11	+80.0	-126.8
19 1/8	74 1/4	12	+80.0	-151.8	13	+80.0	-151.8	13	+80.0	-151.8	13	+80.0	-151.8
26 1/2		12	+80.0	-151.8	13	+80.0	-151.8	13	+80.0	-151.8	13	+80.0	-151.8
37		12	+80.0	-151.8	13	+80.0	-151.8	13	+80.0	-151.8	13	+80.0	-151.8
53 1/8		12	+80.0	-121.3	13	+80.0	-112.8	13	+80.0	-112.8	13	+80.0	-112.8
19 1/8	84	14	+80.0	-151.8	15	+80.0	-151.8	15	+80.0	-151.8	15	+80.0	-151.8
26 1/2		14	+80.0	-151.8	15	+80.0	-151.8	15	+80.0	-151.8	15	+80.0	-151.8
37		14	+80.0	-151.8	15	+80.0	-151.8	15	+80.0	-151.8	15	+80.0	-151.8
41		14	+80.0	-138.9	15	+80.0	-138.9	15	+80.0	-138.9	15	+80.0	-138.9
53 1/8		14	+80.0	-115.4	15	+80.0	-110.3	15	+80.0	-110.3	15	+80.0	-110.3

*ANCHOR QTY. INDICATES MINIMUM NUMBER OF ANCHORS PER JAMB

ANCHOR SCHEDULE:

3/16" OR 1/4" ITW TAPCONS W/ 3/16" HEAD (OR EQUIV MASONRY ANCHOR HOLDING CURRENT NOTICE OF ACCEPTANCE):

- INTO 2x WOOD BUCKS OR WOOD STRUCTURE (1-1/2" MIN PENETRATION INTO WOOD), WITH 1" MIN EDGE DISTANCE
- THROUGH 1x WOOD BUCKS INTO MASONRY OR DIRECTLY INTO MASONRY (1-1/4" MIN EMBED INTO CONCRETE OR MASONRY), WITH 2-1/2" MIN EDGE DISTANCE.

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.

FRANK L. BENNARDO, P.E.
PE0046549

07/30/2008

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CERT OF AUTH #9885
A FRANK L. BENNARDO, P.E., INC. INNOVATION

TRACO
Windows & Doors Inc.
71 Progress Avenue
Cranberry Township, PA 16166
Tel: (724) 776-7000
SERIES SH-440 ALUMINUM SINGLE-HUNG WINDOW (SMALL MISSILE SH-440)

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	CL	FLB	08/04/03
REV 1 - COUNTY COMMENT	CL	FLB	10/02/03
REV 2 - SMALL JAMB SPLIT	CL	FLB	01/28/04
REV 3 - 2004 FBC	CL	FLB	07/13/05
REV 4 - 2007 FBC	RKB	CL	05/16/08

03-0809-113a

SCALE: 01

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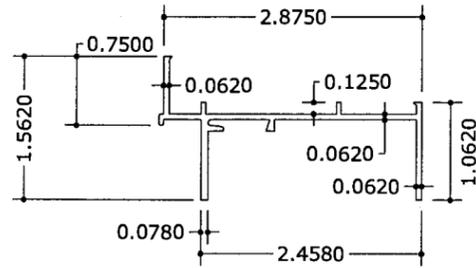
PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 08-0527.14
Expiration Date 06/10/2012

By *Mamuel Perez*
Miami Dade Product Control Division

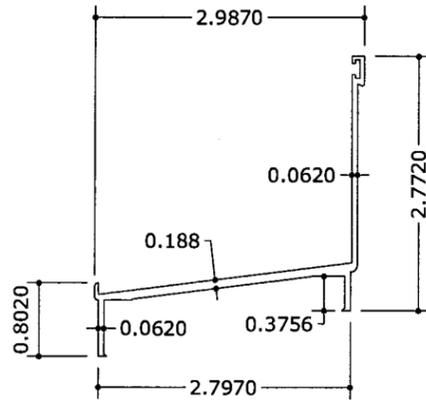
3

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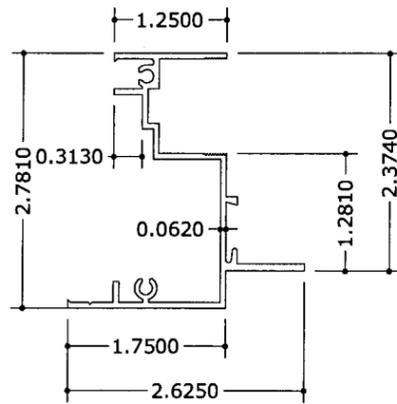
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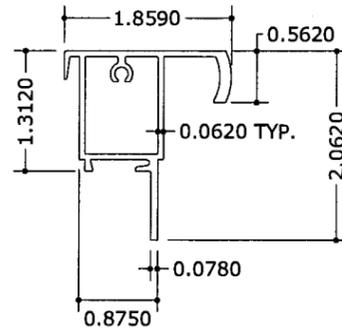
① FRAME HEAD



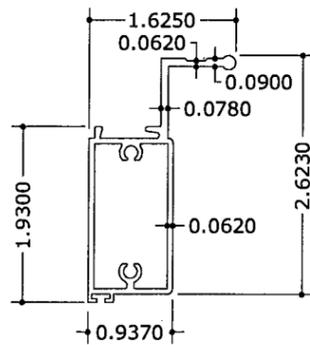
②A FRAME SILL



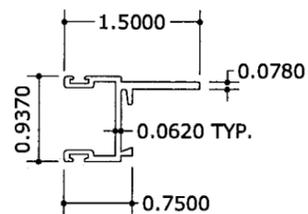
③ FRAME JAMB



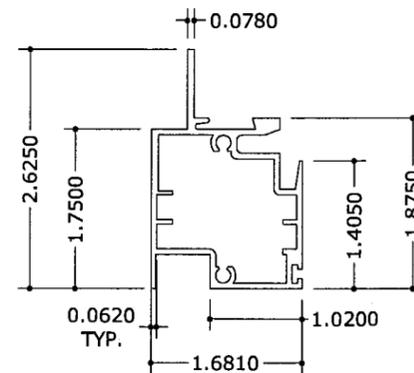
④ BOTTOM VENT TOP RAIL



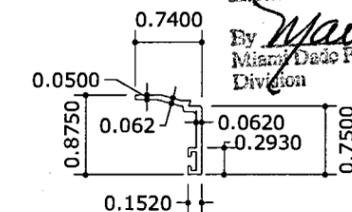
⑤ BOTTOM VENT BOTTOM RAIL



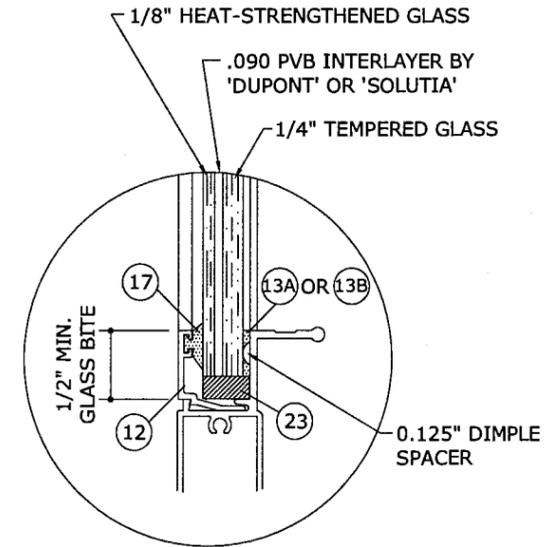
⑥ SASH SIDE RAIL



⑦ MEETING RAIL



⑫ GLASS STOP (7/16" GLASS)



GLAZING DETAIL

GLAZING NOTES:

SEALANTS:
ALL INSTALLATION SCREW, FRAME & PANEL CORNER SEAMS SEALED WITH SCHNEE MOREHEAD 5504.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **08-0527.14**
Expiration Date **08/10/2012**
By *Manuel Perez*
Miami-Dade Product Control
Division

FRANK L. BENNARDO, P.E.
#PE0046549

07/30/2008

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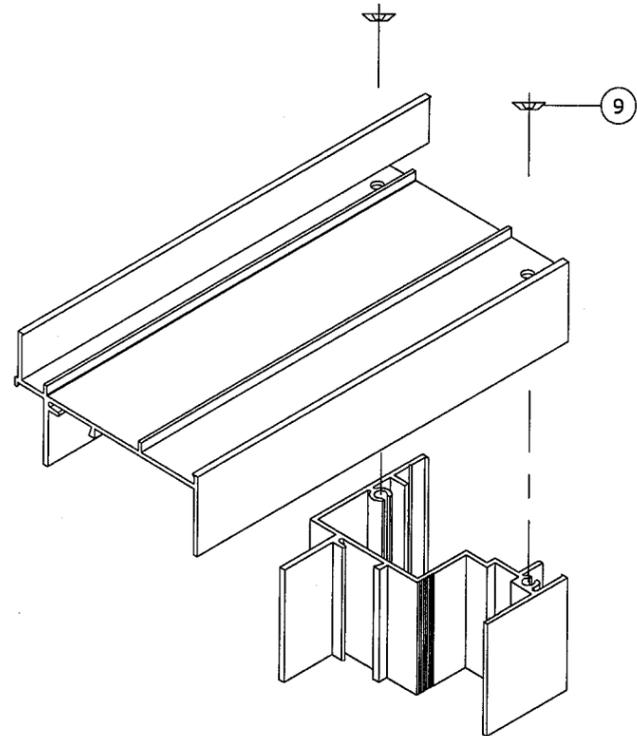
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SERIES C - SH-440 ALUMINUM SINGLE-HUNG WINDOW (SMALL MISSILE SH-440)

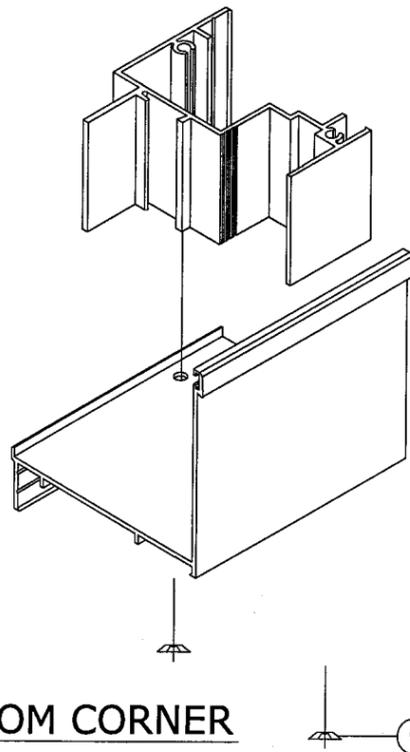
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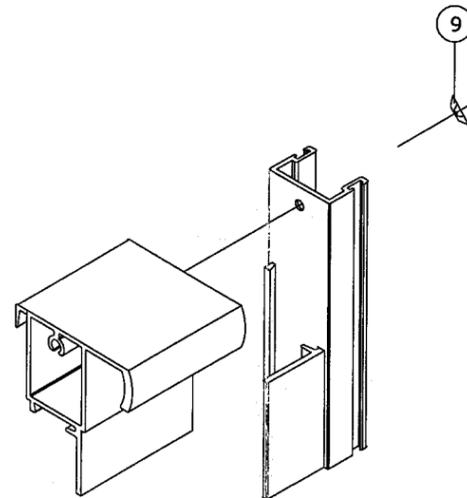
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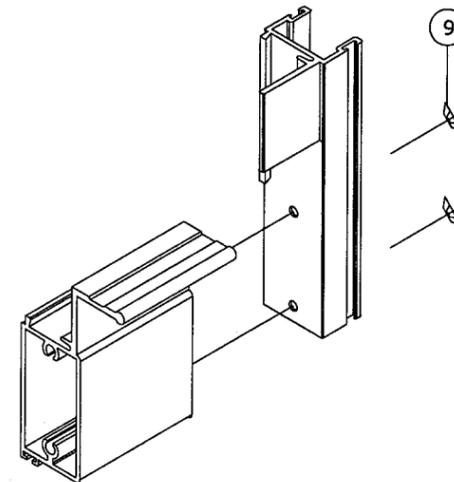
FRAME TOP CORNER



FRAME BOTTOM CORNER



VENT TOP CORNER



VENT BOTTOM CORNER

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	S-1016	1	HEAD	6063-T6	PROFILE EXTRUSIONS
2	-	-	-	-	-
2A	S-1010	1	SILL	6063-T6	PROFILE EXTRUSIONS
3	S-1022	2	JAMB	6063-T5	PROFILE EXTRUSIONS
4	H-1015	1	VENT TOP	6063-T6	PROFILE EXTRUSIONS
5	H-1012	1	VENT BOTTOM	6005-T5	PROFILE EXTRUSIONS
6	S-1014	2	VENT SIDE	6063-T6	PROFILE EXTRUSIONS
7	N-1017	1	MEETING RAIL	6063-T6	PROFILE EXTRUSIONS
8	-	-	-	-	-
9	012-02-835	AS REQD.	FRAME/VENT ASSEMBLY SCREW		#8 X 1" PPH SMS
10					
11	20-7061	AS REQD.	W'STRIPPING (FABRIC COATED FOAM)		SCHLEGEL Q-LON .375 X .190
12	S-1023	4/LITE	GLASS STOP (7/16" GLASS)	6063-T5	-
13	-	-	-	-	-
13A	05-0127-10 05-0128-16	AS REQD.	TWO-PART GE STRUCTURAL SILICONE	SILICONE	GE RGS7700
13B	05-0105	AS REQD.	DOW 1199 STRUCTURAL SILICONE	SILICONE	DOW CORNING
14	007-10-017	2	SWEEP LOCK AT 6-3/4" FROM ENDS (WHITE)	ZINC CAST	MARBOLLO INT.
15	009-00-XXX-X	2	BLOCK AND TACKLE BALANCE		AMESBURY
16	-	-	-	-	-
17	20-0120-16	AS REQD.	GLAZING WEDGE		TEAM PLASTICS
18	-	2	REINFORCING BARS FULL LENGTH (OPTIONAL)	STEEL	1-1/2" X 1/4"
19	30-3896	2	VENT GUIDE	NYLON	1/2" X 7/8" X 3/8"HI. - W/ #6 X 1/2"
20	S-112	1	1-1/2" x 1" x 1/8" ALUM ANGLE @ MIDSPAN	6063-T5	FASTENED WITH (2) #10 X 2-1/4" TAPCONS
21	15-0732	AS REQD.	MTG. RAIL ASSEMBLY SCREW		#10 X 1" SQUARE DRIVE SMS
22	047-40-008	AS REQD.	FIN SEAL PILE		ULTRAFAB
23	046-16-103	AS REQD.	SETTING BLOCK	SANTOPRENE	-
24	014-10-060	2	SASH STOP		-

FRANK L. BENNARDO, P.E.
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