



**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 Windows & Doors, Inc.  
71 Progress Avenue  
Cranberry Township, PA 16166**

**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 High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Series "TR-8910" Aluminum Terrace Door System**

**APPROVAL DOCUMENT:** Drawing No. **03-0041-103A**, titled "HGD 8910 Terrace Door System Large Missile Impact Resistant", prepared by Frank Bennardo, P.E., sheets 1 through 3 of 3, dated 4/1703 with revision on 8/21/03, signed and sealed by Frank Bennardo, P.E., bearing the Miami-Dade County Product Control Renewal 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**

**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 and consists of this page 1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Theodore Berman, P.E.**

**NOA No 03-0422.04  
Expiration Date: October 16, 2008  
Approval Date: October 16, 2003**



**Traco Windows & Doors, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **03-0041-103A**, titled "HGD 8910 Terrace Door System Large Missile Impact Resistant", prepared by Frank Bennardo, P.E., sheets 1 through 3 of 3, dated 4/17/03 with revision on 8/21/03, signed and sealed by Frank 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 203-94along with marked-up drawings and installation diagram of a terrace door, prepared by Hurricane Test Laboratory, Inc., Test Report No. HTL 0021-0611-02 dated 9/10/02, signed and sealed by Vinu Abraham, P.E.
2. 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 terrace door, prepared by Hurricane Test Laboratory, Inc., Test Report No. HTL 0021-0925-02 dated 9/24/02, signed and sealed by Vinu Abraham, P.E.

**C. CALCULATIONS**

1. Anchor Calculations and ASTM E-1300, prepared by manufacturer, dated 4/17/03, signed and sealed by Frank Bennardo, P.E.

**D. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **01-0205.02** issued to Solutia, Inc. for "Saflex/Keepsafe Maximum" dated 5/17/01, expiring on 5/21/06.

**E. QUALITY ASSURANCE**

1. Miami-Dade County Building Code Compliance Office.



Theodore Berman, P.E.  
Deputy Director, Product Control Division  
NOA No 03-0422.04  
Expiration Date: October 16, 2008  
Approval Date: October 16, 2003

**Traco Windows & Doors, Inc.**

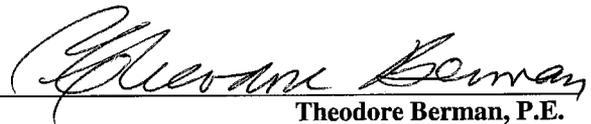
**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS**

1. Statement letter of no financial interest, dated 4/17/03, signed and sealed by Frank Bennardo, P.E.
2. Statement letter of conformance, dated 4/17/03, signed and sealed by Frank Bennardo, P.E.
3. Laboratory compliance letter for Hurricane Test Laboratory, Inc., Test Report No. HTL 0021-0611-02 dated 9/10/02, signed and sealed by Vinu Abraham, P.E.
4. Laboratory compliance letter for Hurricane Test Laboratory, Inc., Test Report No. HTL 0021-0925-02-02 dated 11/4/02, signed and sealed by Vinu Abraham, P.E.

**G. OTHER**

1. Letter from the consultant stating that the product is in compliance with Florida Building Code (FBC).

  
Theodore Berman, P.E.

Deputy Director, Product Control Division

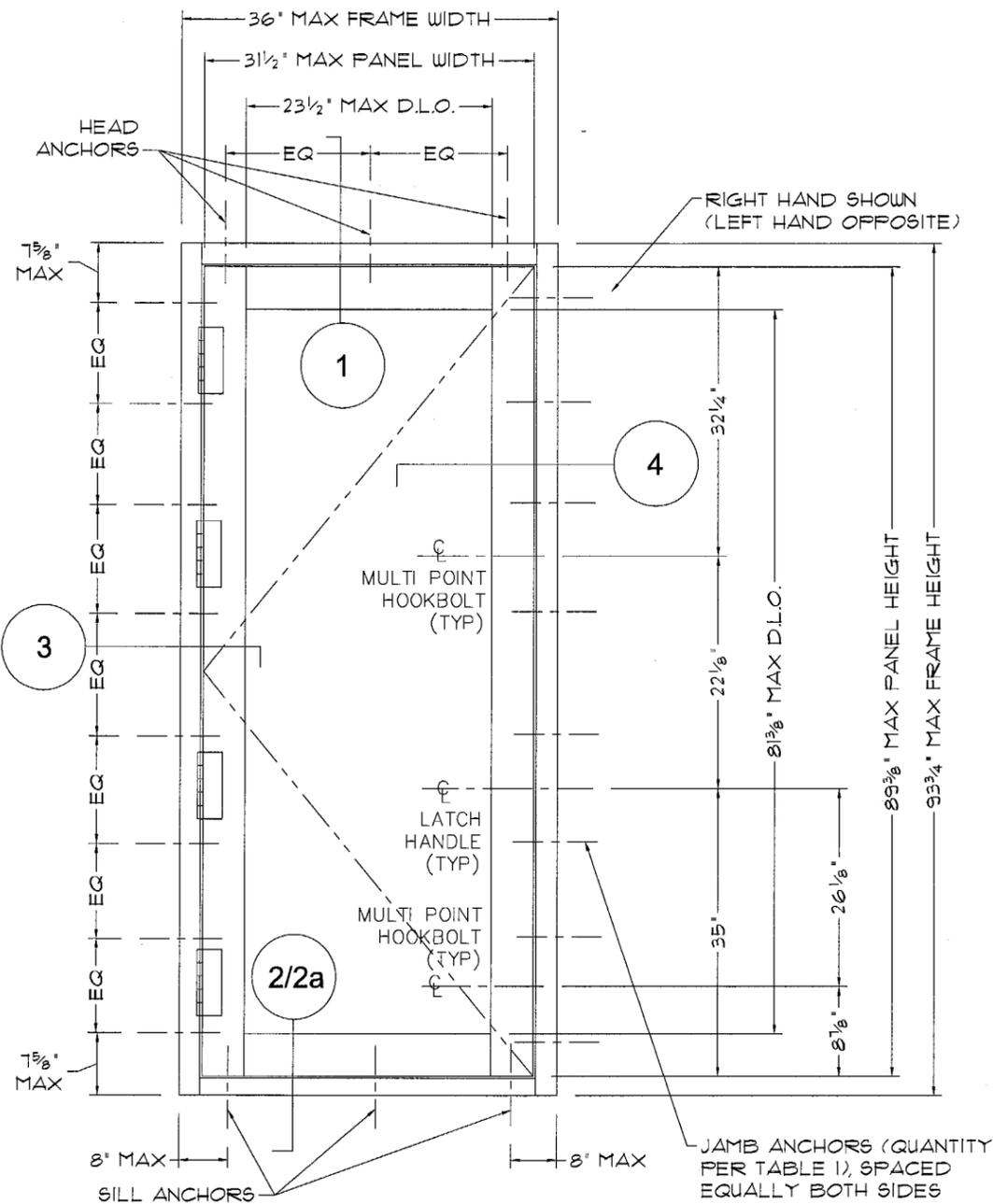
NOA No 03-0422.04

Expiration Date: October 16, 2008

Approval Date: October 16, 2003

# LARGE-MISSILE IMPACT RESISTANT TERRACE DOOR

AUG 25 2003



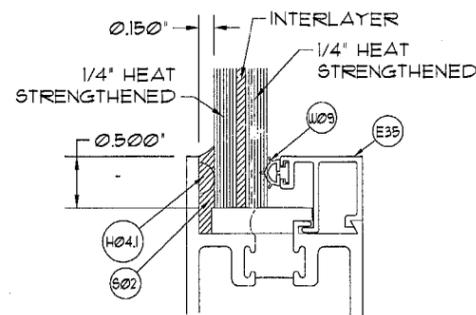
## A EXTERIOR ELEVATION

ANCHOR LOCATIONS & SPACING:

HEAD & SILL: ANCHORS PLACED AS SHOWN ABOVE.

JAMBS: (1) ANCHOR @  $7\frac{5}{8}$ " FROM EACH CORNER, REMAINING ANCHORS SPACED EQUALLY.

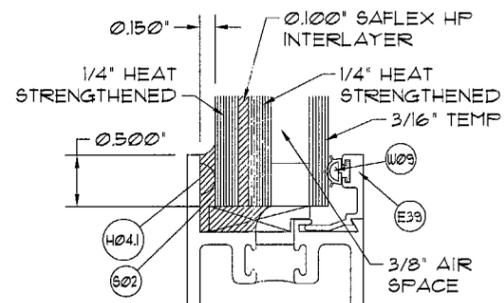
NOTE: NUMBER OF ANCHORS INDICATED IN TABLE 1 (SHEET 3) INCLUDES FIRST ANCHOR FROM EACH CORNER.



INTERLAYER OPTIONS:  
 OPTION 1:  $\frac{1}{4}$ " HS / .090" SENTRYGLASS PLUS /  $\frac{1}{4}$ " HS  
 OPTION 2:  $\frac{1}{4}$ " HS / .100" SAFLEX HP /  $\frac{1}{4}$ " HS

## B 9/16" GLAZING DETAIL (LARGE MISSILE)

MAXIMUM ALLOWABLE PRESSURES:	+95 PSF -110 PSF
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## C 9/16" S.I.G. GLAZING DETAIL (LARGE MISSILE)

MAXIMUM ALLOWABLE PRESSURES:	+95 PSF -110 PSF
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## GLAZING NOTES:

SEALANTS:  
 ALL INSTALLATION SCREWS, FRAME & PANEL CORNER SEAMS SEALED WITH ALUM- OR CLEAR-COLORED SEALANT (ALL GLAZING OPTIONS).

## GENERAL NOTES:

1. THE TERRACE DOOR SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN COMPLIANCE WITH THE FLORIDA BUILDING CODE 2001, HIGH VELOCITY HURRICANE ZONES, AND MIAMI-DADE COUNTY PROTOCOLS TAS 201, 202 & 203.

2. A 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS DOOR SYSTEM.

3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS DOOR SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE. WHEN ASCE 7-98 IS USED TO DETERMINE DESIGN PRESSURES, A DIRECTIONALITY FACTOR  $K_d=1$  IS REQUIRED.

4. THE DOOR SYSTEM DETAILED HEREIN HAS BEEN TESTED PER MIAMI-DADE COUNTY PROTOCOLS TAS-201, TAS-202, & TAS-203 AS REFERENCED IN TEST REPORT #0021-0925-02 BY HURRICANE TEST LABORATORY (HTL). MULTIPLE DOORS MUST BE INSTALLED USING MIAMI-DADE COUNTY BCCO-APPROVED STRUCTURAL MULLIONS (e.g. NOA #01-1218.01 OR #01-1218.02).

5. THE DOOR 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 SECURITY) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.

7. DOOR PANELS GLAZED WITH 9/16" LAMINATED GLASS OR 9/16" S.I.G. GLASS ARE LARGE MISSILE IMPACT RESISTANT AND DO NOT REQUIRE IMPACT RESISTANT SHUTTERS.

8. ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED.

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 #E0046543

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**TRACO**  
 Windows & Doors Inc.

HGD 8910 TERRACE DOOR SYSTEM  
 LARGE-MISSILE IMPACT RESISTANT

REVISIONS	DESCRIPTION	DATE
	LARGE/SMALL SPLIT	8/11/2003

Approved as complying with the Florida Building Code  
 Date 10/16/03  
 NOA# 03-0422-04  
 Miami Dade Product Control  
 Div. of Building Inspection  
 By *Frank Bennardo*

SCALE:  $\frac{3}{4}$ " = 1"  
 DRAWN BY: CL  
 CHECKED BY: FLB  
 DWG DATE: 4/17/2003  
 DWG #: 03-0041-103A

SHEET  
 1 OF 3

AUG 25 2003

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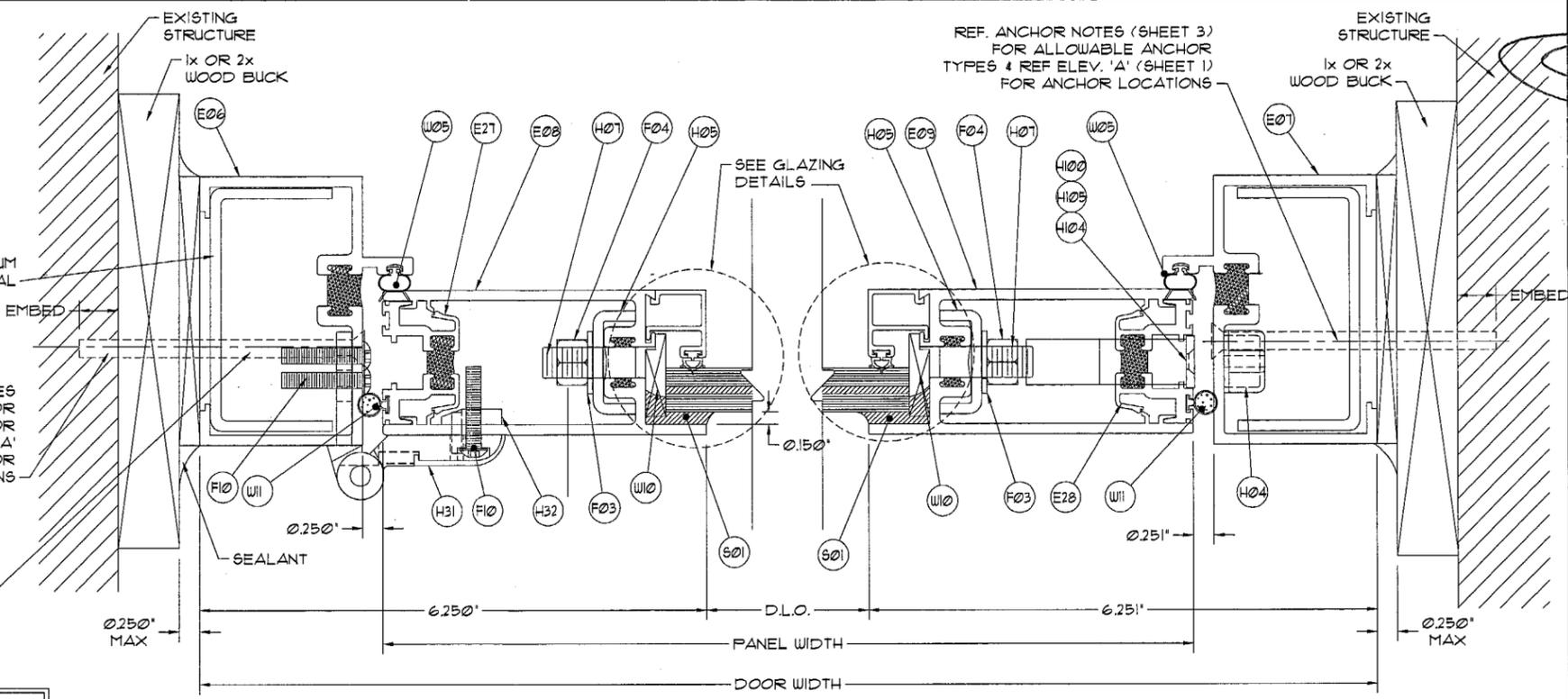
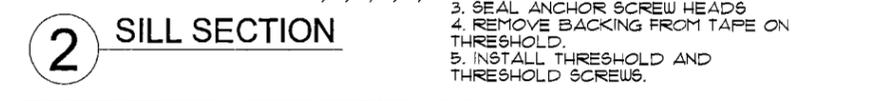
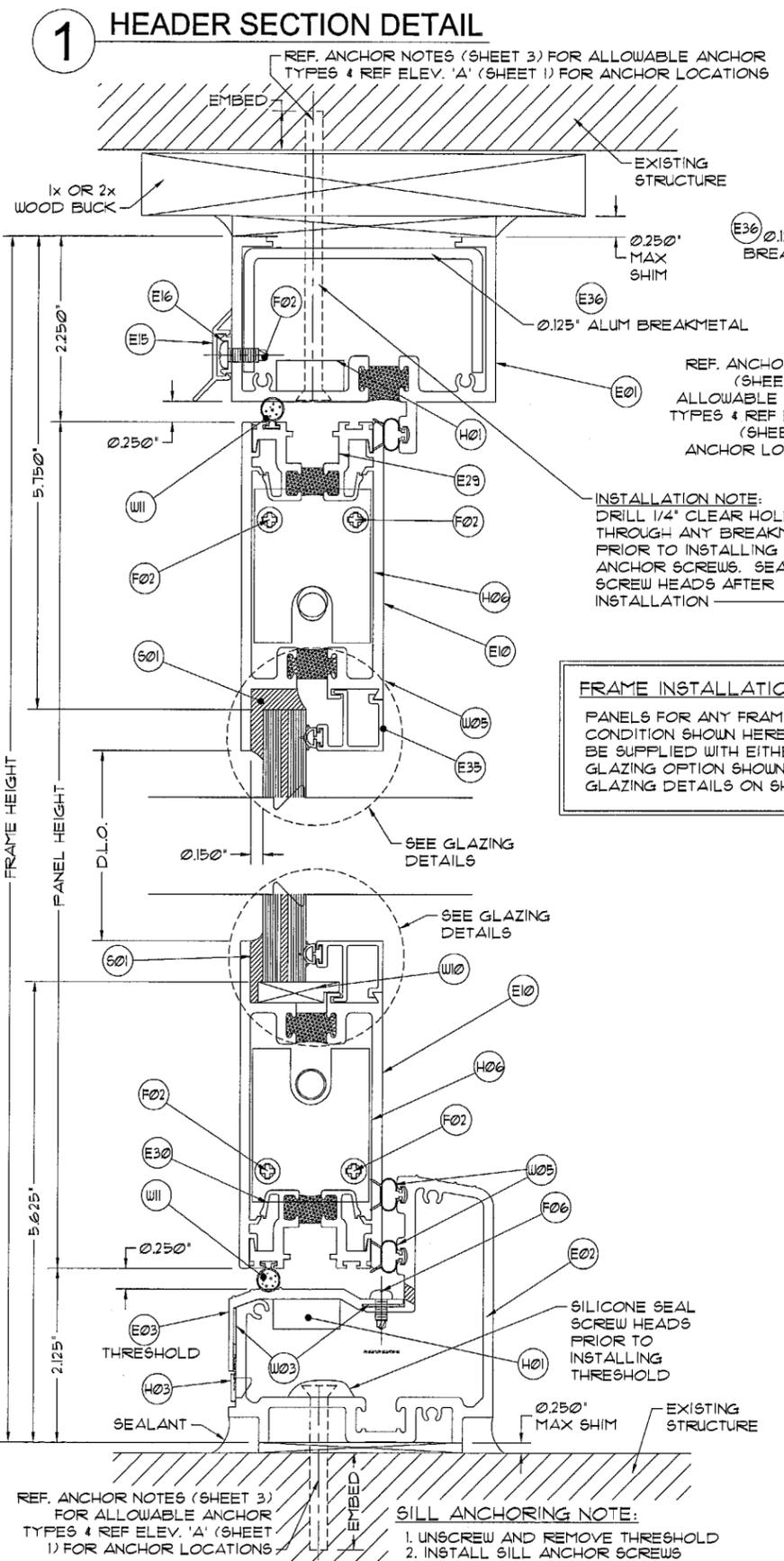
HGD 8910 TERRACE DOOR SYSTEM  
LARGE-MISSILE IMPACT RESISTANT



REVISIONS	
DESCRIPTION	DATE
LARGE/SMALL SPLIT	8/21/2003

SCALE: 1/2"  
DRAWN BY: CL  
CHECKED BY: FLB  
DWG DATE: 4/17/2003  
DWG #: 03-0041-103A

Approved as complying with the  
Florida Building Code  
Date 10/16/03  
NOA# 03-0422-04  
Miami Code Product Control  
Division  
By: *Mesasa Berna*



3 HINGE JAMB SECTION

4 LOCK JAMB SECTION

**FRAME INSTALLATION NOTE:**  
PANELS FOR ANY FRAMING CONDITION SHOWN HEREIN MAY BE SUPPLIED WITH EITHER GLAZING OPTION SHOWN IN GLAZING DETAILS ON SHEET 1.

TABLE 1		DESIGN LOAD CAPACITY (PSF)	
		LARGE MISSILE	
Jamb Anchor	Num of Anchors	EXT (+)	INT (-)
#12 SCREW <sup>3</sup> OR 3/16" TAPCON <sup>4</sup>	8	86.88	86.88
	9	95.00	97.52
	10	95.00	108.36
	11	95.00	110.00
	12	95.00	110.00
	13	95.00	110.00
1/4" TAPCON <sup>4</sup>	8	95.00	110.00
	9	95.00	110.00
	10	95.00	110.00

- TABLE 1 NOTES:**
- ENTER TABLE 1 BASED ON JAMB ANCHOR TYPE, CHOOSE NUMBER OF ANCHORS THAT PROVIDES DESIGN LOAD CAPACITY (+ & -) GREATER THAN OR EQUAL TO REQUIRED WINDLOAD FOR OPENING.
  - #12 SCREWS ARE:  
- #12 WOOD SCREWS FOR USE INTO GRADE 2 SOUTHERN YELLOW FINE (G=0.55), OR  
- #12 MEDIUM DUTY ITW TEKS SCREWS FOR USE INTO 1/2" MIN A36 STEEL.
  - TAPCONS (BOTH 3/16" & 1/4") MAY BE BY ELCO OR ITW BUILDEX, FOR USE IN CONCRETE, GROUT-FILLED BLOCK, OR WOOD. WOOD SHALL BE 'SOUTHERN FINE' GRADE 2 (G=0.55 MIN).
  - ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
  - ANCHOR EMBEDMENT SHALL BE INTO BASE MATERIAL, EXCLUDING STUCCO OR OTHER WALL FINISH.
  - FOR ANCHOR LOCATIONS AND SPACING, SEE ELEVATION 'A' ON SHEET 1.
  - PROVIDE 1 1/2" EMBEDMENT THRU WOOD BUCKS INTO GROUT-FILLED BLOCK (2ksf MIN) OR CONCRETE (3ksf MIN). PROVIDE 1 1/2" PENETRATION INTO WOOD STRUCTURE. ENSURE MINIMUM OF 2 1/2" EDGE DISTANCE FOR ALL ANCHORS TO CONCRETE/BLOCK AND 1 1/2" EDGE DISTANCE FOR ANCHORS TO WOOD.

- SILL ANCHORING NOTE:**
- UNSCREW AND REMOVE THRESHOLD
  - INSTALL SILL ANCHOR SCREWS
  - SEAL ANCHOR SCREW HEADS
  - REMOVE BACKING FROM TAPE ON THRESHOLD
  - INSTALL THRESHOLD AND THRESHOLD SCREWS.

AUG 25 2003

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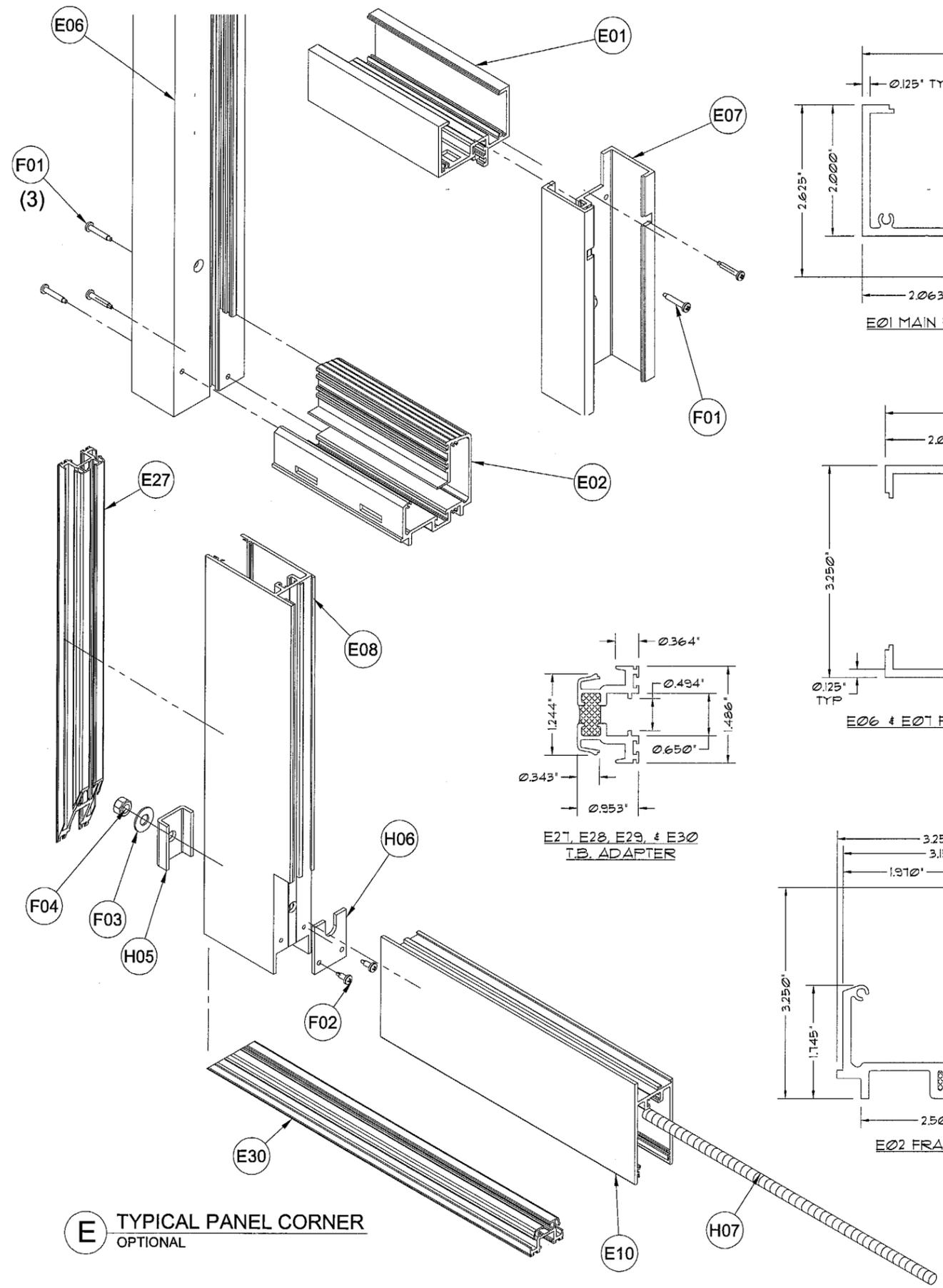
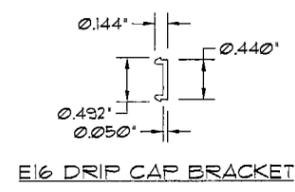
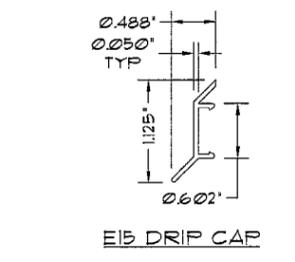
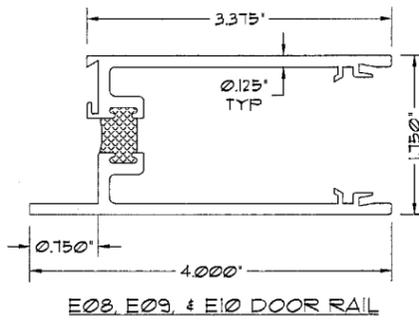
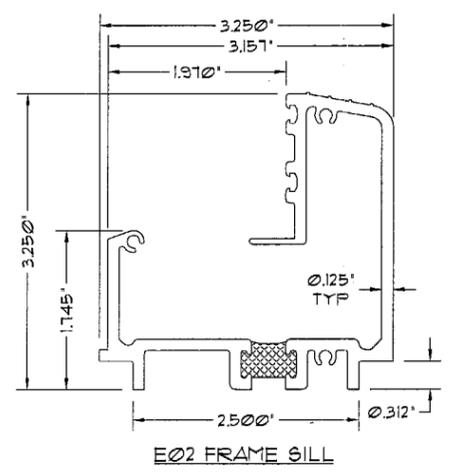
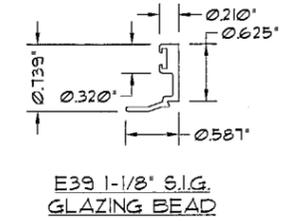
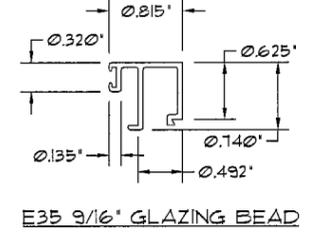
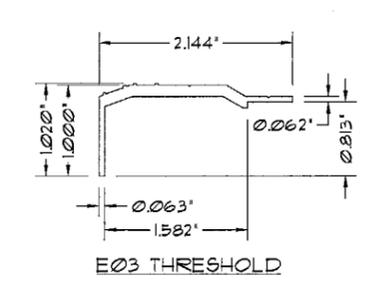
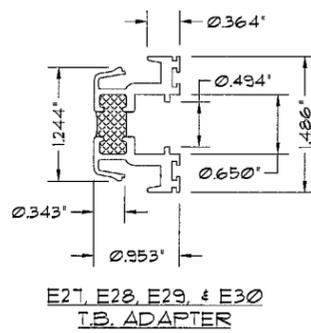
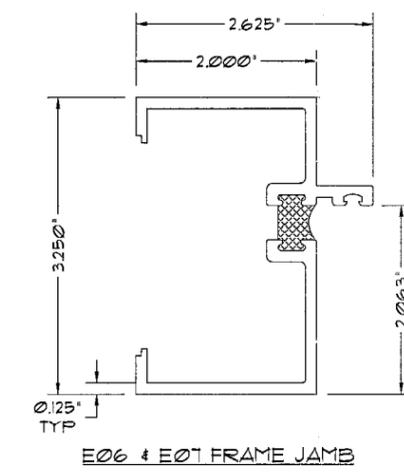
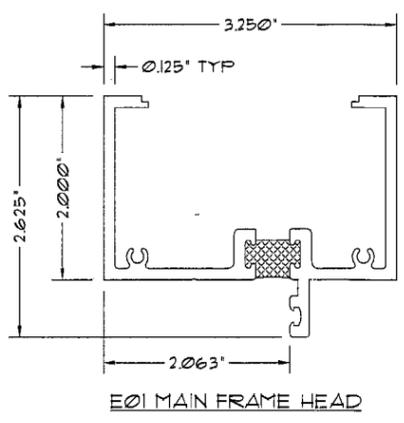
REVISIONS	DESCRIPTION	DATE
LARGE/SMALL SPLIT		8/21/2003

SCALE: 1:2 (UNO.)  
DRAWN BY: CL  
CHECKED BY: FLB  
DATE: 4/17/2003  
DUG #: 03-0041-103A

SHEET  
3 OF 3

**BILL OF MATERIALS**

ITEM	PART NO.	DESCRIPTION	MATERIAL	VENDOR	VENDOR PART NO.
E01	S-2437	MAIN FRAME HEAD	6063-T5	TRACO	
E02	S-3189	FRAME SILL	6063-T5	TRACO	
E03	S-2441	THRESHOLD, STANDARD	6063-T5	TRACO	
E06	S-2471	FRAME JAMB, HINGE SIDE	6063-T5	TRACO	
E07	S-2471	FRAME JAMB, LOCK SIDE	6063-T5	TRACO	
E08	S-2472	DOOR RAIL, HINGE SIDE	6063-T5	TRACO	
E09	S-2472	DOOR RAIL, LOCK SIDE	6063-T5	TRACO	
E10	S-2472	DOOR RAIL, TOP & BOTTOM	6063-T5	TRACO	
E15	S-2581	DRIP CAP	6063-T5	TRACO	
E16	S-2582	DRIP CAP BRACKET	6063-T5	TRACO	
E27	S-2859	T.B. ADAPTER, VERTICAL, HINGE	6063-T5	TRACO	
E28	S-2859	T.B. ADAPTER, VERTICAL, LOCK	6063-T5	TRACO	
E29	S-2859	T.B. ADAPTER, HORIZONTAL, TOP	6063-T5	TRACO	
E30	S-2859	T.B. ADAPTER, HORIZONTAL, BOTTOM	6063-T5	TRACO	
E34	S-2923	7/16" GLAZING BEAD	6063-T5	TRACO	
E35	S-3116	9/16" GLAZING BEAD	6063-T5	TRACO	
E39	S-3223	1 1/8" INSULATED GLAZING BEAD	6063-T5	TRACO	
S01	05-0097	PECORA 896 SILICONE (Small Missile)		PECORA	896
S02	05-0038	DOW 995 SILICONE (Large Missile)		DOW	995
F01	15-0006	#8-18 X 1" PPH 3/16" LP 410 SS		ALLSTAR FASTENER	
F02	15-0056	#8-18 X 1/2" PPH TEK			
F03	15-0089	WASHER, 3/8", SS SS			
F04	15-0139	NUT, 3/8" SS			
F06	15-0231	#6 X .375 PPH TEK 2 SS			
F10	15-0498	#10-32 X 1" TMPR. TORX BH MS	SS	TAMPERPROOF SCREW CO	
W03	20-0367	1/16" X 7/16" GLAZING TAPE		TOM BROWN	V992
W05	20-4081	BULB FRAME WEATHERSTRIP		AMESBURY	
H01	30-2208	BLISTER PACK PAPER PRODUCTS			
H02	30-2338	WEEP COVER & HOUSING, WHITE		GAER	870300-BW
H03	30-2339	WEEP COVER & HOUSING, BROWN		GAER	870300-BN
H04	30-2547	LATCH CUP		PRODUCT DESIGN & DEV	
H04.1	30-3086	Bumpon		3M	SJ-5306
H05	30-2548	TIE ROD BRACKET STEEL		ADVANTAGE	268
H06	30-2549	GUIDE PLATE	6063-T5	ADVANTAGE	269
H07	30-2551	TIE ROD, 3/8" -16, THREADED STEEL		STD-MACHINIST SUPPLY	
H31	30-2797	4 1/2" BUTT HINGE, MILL FINISH	6063-T5	ADVANTAGE	398 MILL
H32	30-2798	HINGE BACKER PLATE	6063-T5	ADVANTAGE	402
H100	30-2917	CREMONA EXTENSION 500 S.S.	SS	G-U HARDWARE	
H104	30-2919	RHINO HOOKBOLT STAINLESS STEEL	SS	G-U HARDWARE	
H105	30-3096	HEAVY-DUTY REVERSING GEAR S.S.	SS	G-U HARDWARE	G-20416-00-0-8



Approved as complying with the  
Florida Building Code  
Date 10/16/03  
NOA# 03-0422-04  
Miami Dade Product Control  
Div.  
By *Frank Bennardo*