



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)**

[www.buildingcodeonline.com](http://www.buildingcodeonline.com)

**TRACO Security 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 Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Series "TR-8910" Outswing Aluminum Terrace Door System -S.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **03-0041-103b**, titled "HGD 8910 Terrace Door System", prepared by Frank L. Bennardo, P.E., Inc. Consulting Engineers, sheets 1 through 3 of 3, dated 05/04/07 and last revised on 08/31/2007, 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**

**Limitation:** Min Saflex interlayer thickness = 0.090"

**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 # 05-0727.02** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P. E.**



9/13/17

NOA No 06-1121.11  
Expiration Date: December 04, 2008  
Approval Date: October 04, 2007  
Page 1

**TRACO Security Windows & Doors, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

- A. DRAWINGS** (transferred from file # **05-0727.02**)
1. Manufacturer's die drawings and sections.
  2. Drawing No. **03-0041-103b**, titled "HGD 8910 Terrace Door System", prepared by Frank L. Bennardo, P.E., Inc. Consulting Engineers, sheets 1 through 3 of 3, dated 05/04/07 and last revised on 08/31/2007, signed and sealed by Frank L. Bennardo, P.E.
- B. TESTS** (transferred from file # **05-0727.02**)
1. Additional Reference Test reports on
    - 1) Large Missile Impact Test per FBC, TAS 201-94
    - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with marked-up drawings and installation diagram of a terrace door, prepared by Farabaugh Engineering & Testing, Inc., Test Report No. T208-06, dated 08/26/06, signed and sealed by Daneil G. Farabaugh, P.E.  
(Note: the test report has been revised by an addendum letter dated 08/07/07, issued by Farabaugh Engineering & Testing, Inc)
  2. Test reports (transferred from file # 05-0727.010)
    - 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
    - 6) Forced Entry Test, per FBC and TAS 202-94along with marked-up drawings and installation diagram of a terrace door, prepared by Hurricane Test Laboratory, Inc., Test Report No. HTL 0611-02, dated 06/11-8/14/02 and HTL 0021-0925-02 dated 09/24-27/02, both signed and sealed by Vinu Abraham, P.E.
- C. CALCULATIONS**
1. Anchor Calculations and structural analysis prepared by Frank L. Bennardo, P.E., Consulting Engineer, dated 06/29/07, signed and sealed by Frank Bennardo, P.E.
  2. Glazing compliew w/ ASTME-1300-02
- D. QUALITY ASSURANCE**
1. Miami-Dade County Building Code Compliance Office.
- E. MATERIAL CERTIFICATIONS**
1. Notice of Acceptance No. 06-0216.06 issued to Solutia, Inc. for "Saflex III interlayer" expiring on 5/21/11.
- F. STATEMENTS**
1. Statement letter of conformance and no financial interest, dated 11/13/06, signed and sealed by Frank Bennardo, P.E.
  2. Laboratory compliance letters as part of above referenced test reports.
- G. OTHER**
1. This NOA revises NOA # **05-0727.02 (03-0829.06)**, expiring 10/16/08.

*Ishaq I. Chanda*

Ishaq I. Chanda, P.E.

Product Control Examiner

NOA No 06-1121.11

Expiration Date: December 04, 2008

Approval Date: October 04, 2007

# SERIES HGD 8910 TERRACE DOOR

(SMALL MISSILE IMPACT RESISTANT)

FRANK L. BENNARDO, P.E.  
# PE0046549

08/31/2007

LICENSED AFFILIATE OF  
**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 #9985

**TRACO**  
Windows & Doors Inc.  
71 Progress Avenue  
Cranberry Township, PA 16166  
HGD 8910 TERRACE DOOR SYSTEM  
SMALL MISSILE IMPACT RESISTANT  
MIAMI-DADE PRODUCT APPROVAL

REMARKS	DRWN	CHKD	DATE
COUNTY COMMENTS	RKB	CL	05/04/07
COUNTY COMMENTS	CTS	CL	07/31/07
BCCO COMMENTS	MEH	CL	08/31/07
2004 FBC	CL	FLB	07/19/05
GE SILICONE OPTION	KL	CL	10/23/06

**03-0041-113b**

PAGE SCALE: -  
DESCRIPTION:

1

### GENERAL NOTES:

1. THE TERRACE DOOR SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN COMPLIANCE WITH THE 2004 FLORIDA BUILDING CODE AND 2006 SUPPLEMENT, HIGH VELOCITY HURRICANE ZONES, AND MIAMI-DADE COUNTY PROTOCOLS TAS 201, 202 & 203.

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 DOOR SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE AND BE REVIEWED BY BUILDING OFFICIAL.

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 #0021-0611-02 BY HURRICANE TEST LABORATORY (HTL) AND #T208-06 BY FARABAUGH ENGINEERING AND TESTING, INC (FET). MULTIPLE DOORS MUST BE INSTALLED USING MIAMI-DADE COUNTY BCCO-APPROVED STRUCTURAL MULLIONS (PER CURRENT NOA).

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.

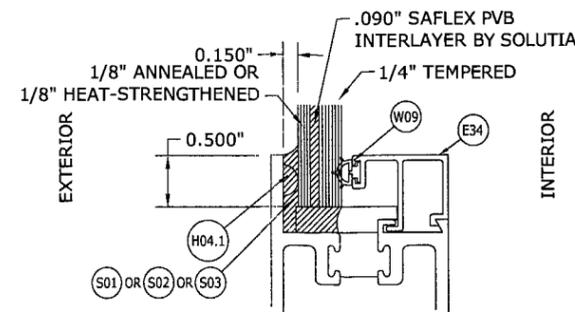
6. ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKS (NOT BY TRACO SECURITY) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.

7. DOOR PANELS GLAZED WITH *OPTION 1* (7/16" LAMINATED GLASS) AND *OPTION 2* (9/16" LAMINATED GLASS) ARE 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.

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

**PRODUCT REVISED**  
to comply with the Florida Building Code  
Acceptance No 06-1121-11  
Expiration Date DEC 04, 2008  
*By: Ishag I. Lhanda*  
Miami Dade Product Control Division

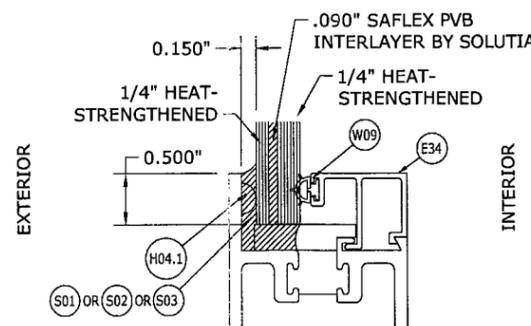
MIAMI-DADE COUNTY BUILDING DEPARTMENT  
ADMINISTRATIVE DIVISION  
08-31-07 10:50 AM  
03-0041-113b



#### GLAZING OPTION 1

- 1/8" ANN + .090 SAFLEX PVB + 1/4" TEMP ...OR...
- 1/8" H.S. + .090 SAFLEX PVB + 1/4" TEMP

### B 7/16" GLAZING DETAIL



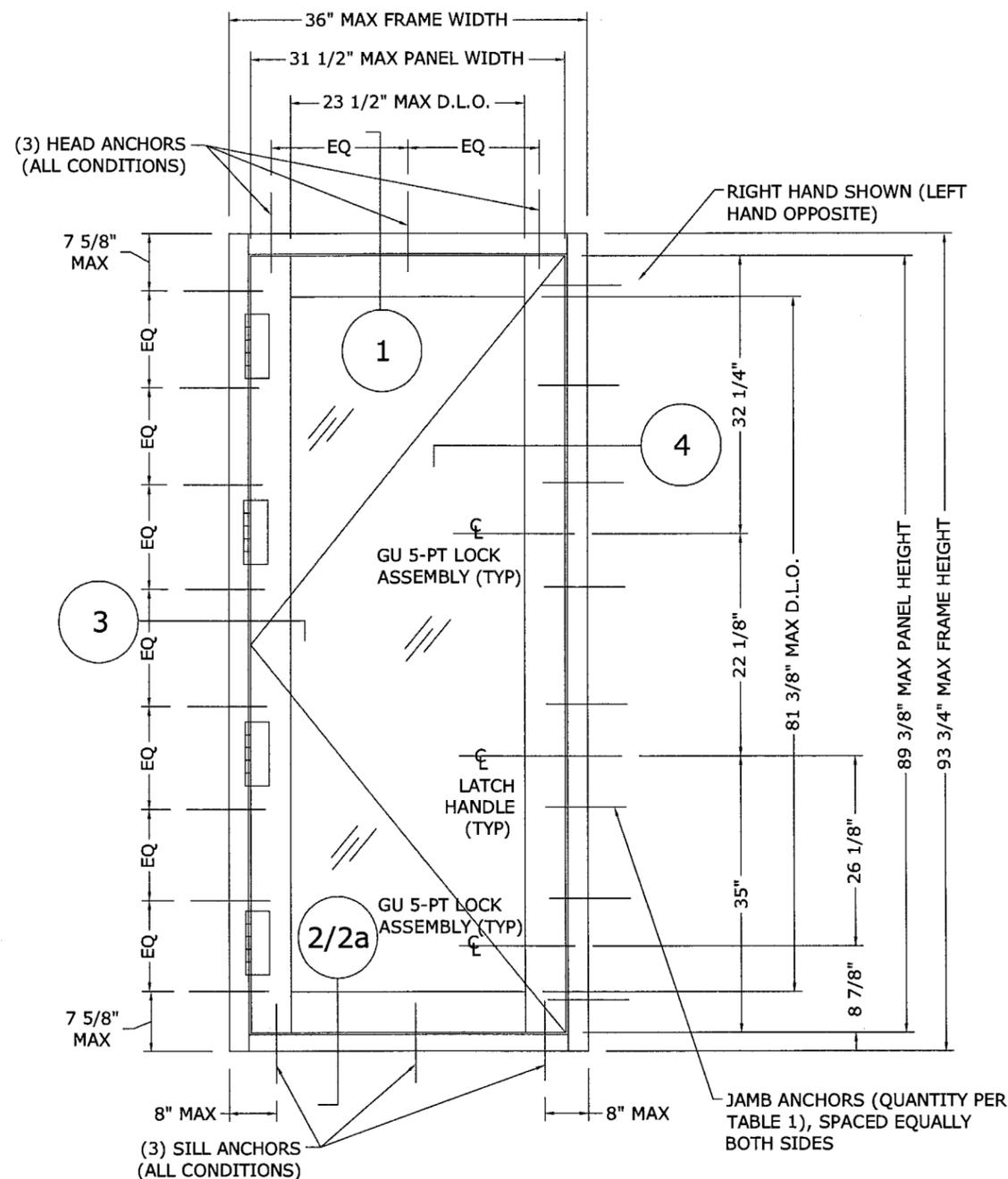
#### GLAZING OPTION 2

- 1/4" H.S. + .090 SAFLEX PVB + 1/4" H.S.

### C 9/16" GLAZING DETAIL

#### GLAZING NOTES:

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



### A EXTERIOR ELEVATION

#### ANCHOR LOCATIONS & SPACING:

**HEAD & SILL:** (3) ANCHORS EACH, PLACED AS SHOWN ABOVE.

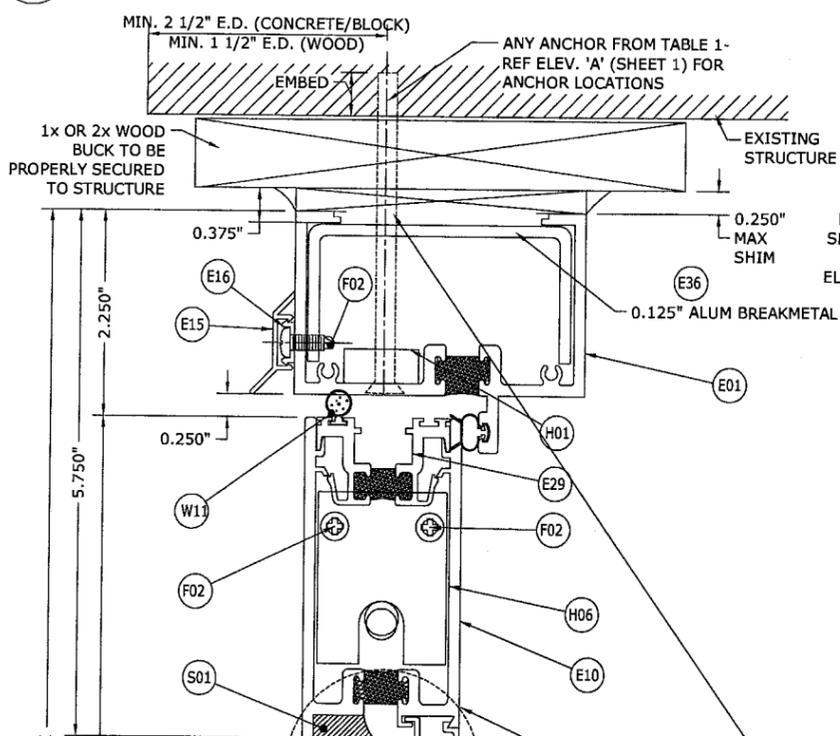
**JAMBS:** (1) ANCHOR @ 7 5/8" FROM EACH CORNER. REMAINING ANCHORS PER TABLE 1, SPACED EQUALLY.

**NOTE:** NUMBER OF ANCHORS INDICATED IN TABLE 1 (SHEET 2) INCLUDES FIRST ANCHOR FROM EACH CORNER.

F:\01 Project Files\Traco\2003 Jobs\03-0041-113b + 03-0041-113b Traco 8910 HGD, LMI + SMI (NOAs)\Traco 8910 Terrace Door, Small Missile (#03-0041-103B) REV 4.3.dwg

08/31/2007 - 1:07pm clangley

# 1 HEADER SECTION DETAIL



REF. TABLE 1 ON THIS SHEET FOR ALLOWABLE ANCHOR TYPES & REF ELEV. 'A' (SHEET 1) FOR ANCHOR LOCATIONS

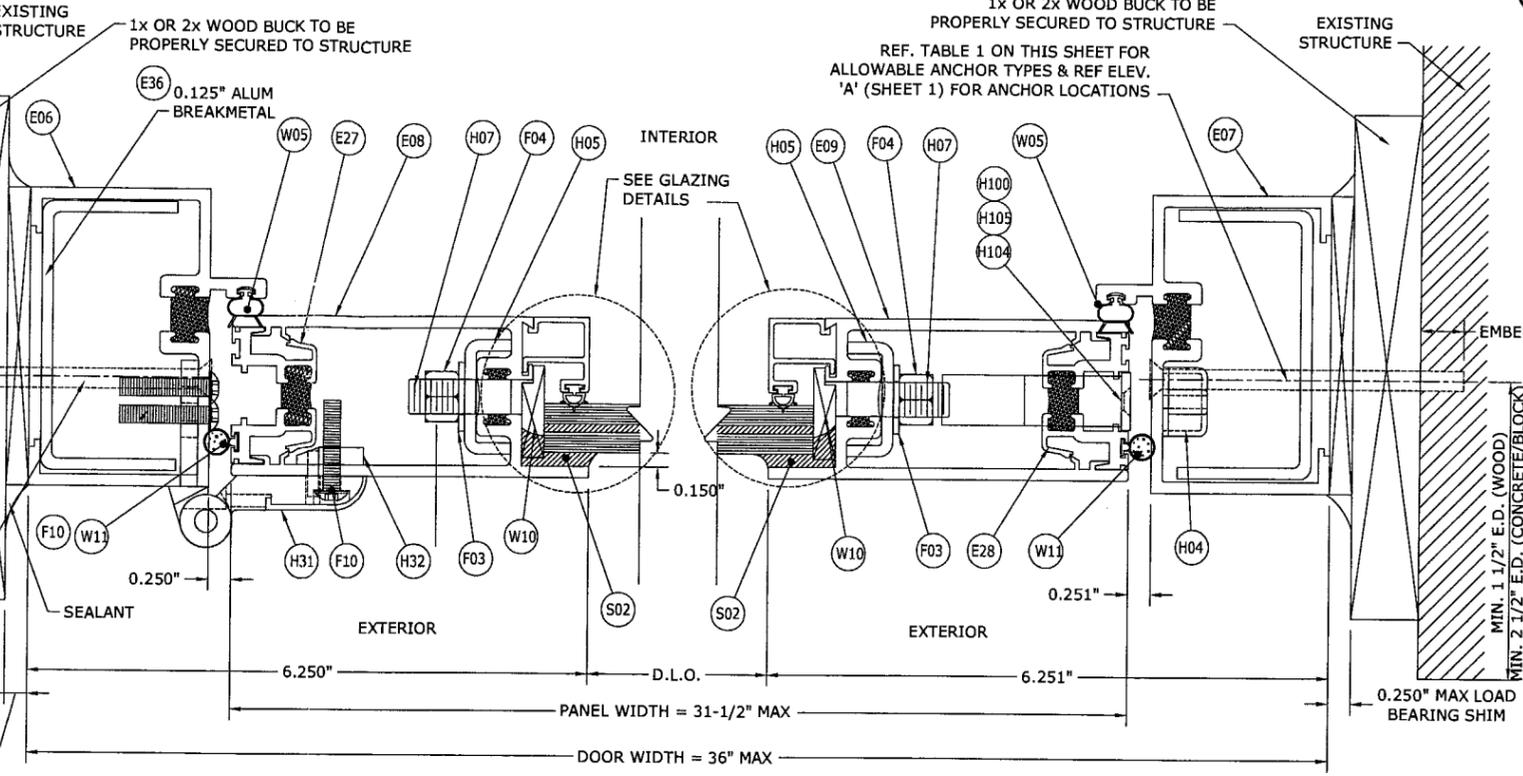
**INSTALLATION NOTE:**  
 DRILL 1/4" CLEAR HOLE THROUGH ANY BREAKMETAL PRIOR TO INSTALLING ANCHOR SCREWS. SEAL SCREW HEADS AFTER INSTALLATION

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

**SILL ANCHORING NOTE:**

1. UNSCREW AND REMOVE THRESHOLD
2. INSTALL SILL ANCHOR SCREWS
3. SEAL ANCHOR SCREW HEADS
4. REMOVE BACKING FROM TAPE ON THRESHOLD.
5. INSTALL THRESHOLD AND THRESHOLD SCREWS.

# 3 HINGE JAMB SECTION



# 4 LOCK JAMB SECTION

**MAX. FRAME SIZE: 36" x 93-3/4"**

TABLE 1		DESIGN LOAD CAPACITY (PSF)			
		SMALL MISSILE			
		GLAZING OPTION 1		GLAZING OPTION 2	
Jamb Anchor	Num of Anchors	EXT (+)	INT (-)	EXT (+)	INT (-)
#12 SMS OR WOOD SCREW <sup>1</sup> OR 3/16" TAPCON <sup>2</sup>	8	56.66	56.66	56.66	56.66
	9	63.74	63.74	63.74	63.74
	10	70.83	70.83	70.83	70.83
	11	77.91	77.91	77.91	77.91
	12	84.99	84.99	84.99	84.99
	13	92.07	92.07	92.07	92.07
	14	99.16	99.16	95.00	99.16
#14 SMS OR WOOD SCREW <sup>1</sup> OR 1/4" TAPCON <sup>2</sup>	15	106.24	106.24	95.00	106.24
	16	113.32	113.32	95.00	110.00
	8	80.62	80.62	80.62	80.62
	9	90.69	90.69	90.69	90.69
	10	100.77	100.77	95.00	100.77

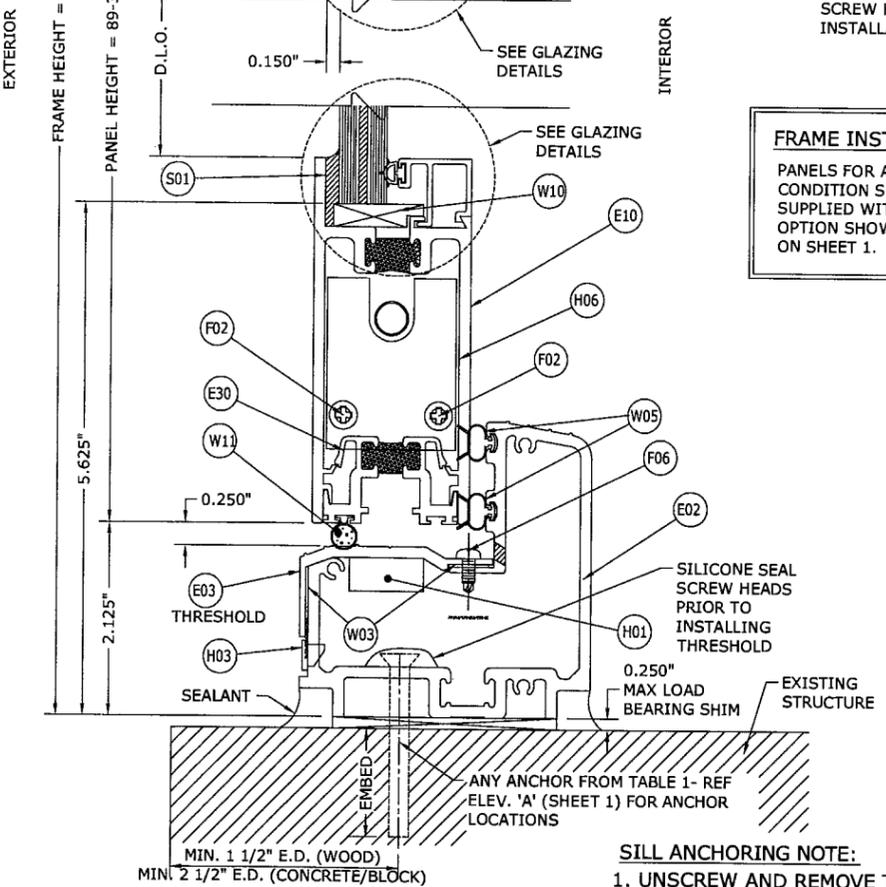
### TABLE 1 NOTES:

1. ENTER TABLE 1 BASED ON SILICONE TYPE:  
 - DOW CORNING SILICONE OR GE SILICONE.
2. FOR RESPECTIVE JAMB ANCHOR TYPE, CHOOSE NUMBER OF ANCHORS THAT PROVIDES DESIGN LOAD CAPACITY (+ & -) GREATER THAN OR EQUAL TO REQUIRED WINDLOAD FOR OPENING.
3. #12 OR #14 WOOD SCREWS (F<sub>y</sub> = 120KSI, GRADE 5) FOR USE INTO GRADE 2 SOUTHERN YELLOW PINE (G=0.55). #12 OR #14 SMS (F<sub>y</sub> = 120KSI, GRADE 5) FOR USE INTO MIN 1/8" THICK STEEL OR ALUMINUM.
4. 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 PINE" GRADE 2 (G=0.55 MIN).
5. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
6. ANCHOR EMBEDMENT SHALL BE INTO BASE MATERIAL, EXCLUDING STUCCO OR OTHER WALL FINISH.
7. FOR ANCHOR LOCATIONS AND SPACING, SEE ELEVATION 'A' ON SHEET 1.
8. PROVIDE 1 1/2" EMBEDMENT THRU WOOD BUCKS INTO GROUT-FILLED BLOCK (2ksi MIN) OR CONCRETE (3ksi 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.

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No 06-1121-11  
 Expiration Date DEC 04, 2005

By *Isaac I. Chanda*  
 Miami Dade Product Control Division

# 2 SILL SECTION



08/31/2007

LICENSED AFFILIATE OF  
**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

**TRACO**  
 Windows & Doors Inc.  
 71 Progress Avenue  
 Cranberry Township, PA 16166  
 HGD 8910 TERRACE DOOR SYSTEM  
 SMALL MISSILE IMPACT RESISTANT  
 MIAMI-DADE PRODUCT APPROVAL

REMARKS	DRWN	CHKD	DATE
COUNTY COMMENTS	RFB	CL	06/04/07
COUNTY COMMENTS	CTS	CL	07/31/07
BCCO COMMENTS	MEH	CL	08/31/07
2004 FBC	CL	FLB	07/78/05
GE SILICONE OPTION	KL	CL	10/23/06

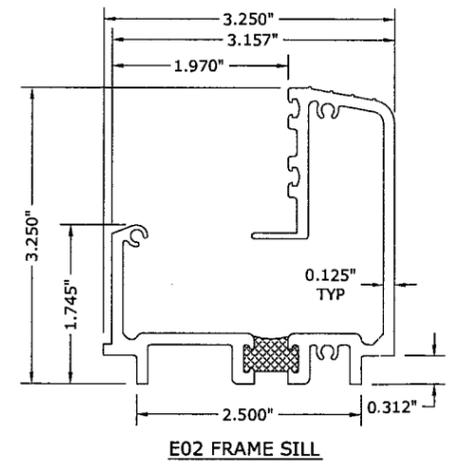
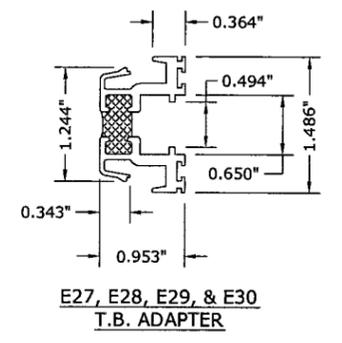
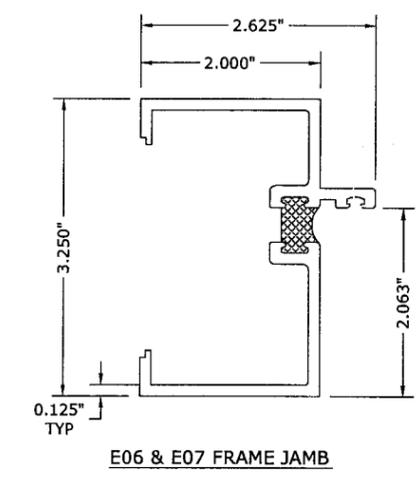
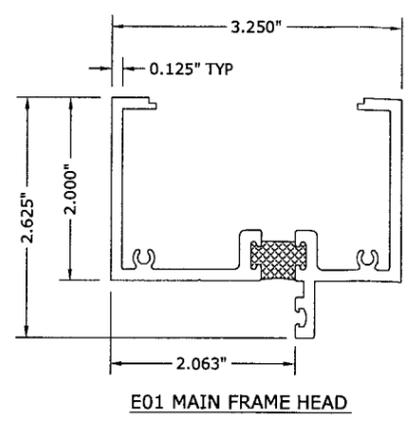
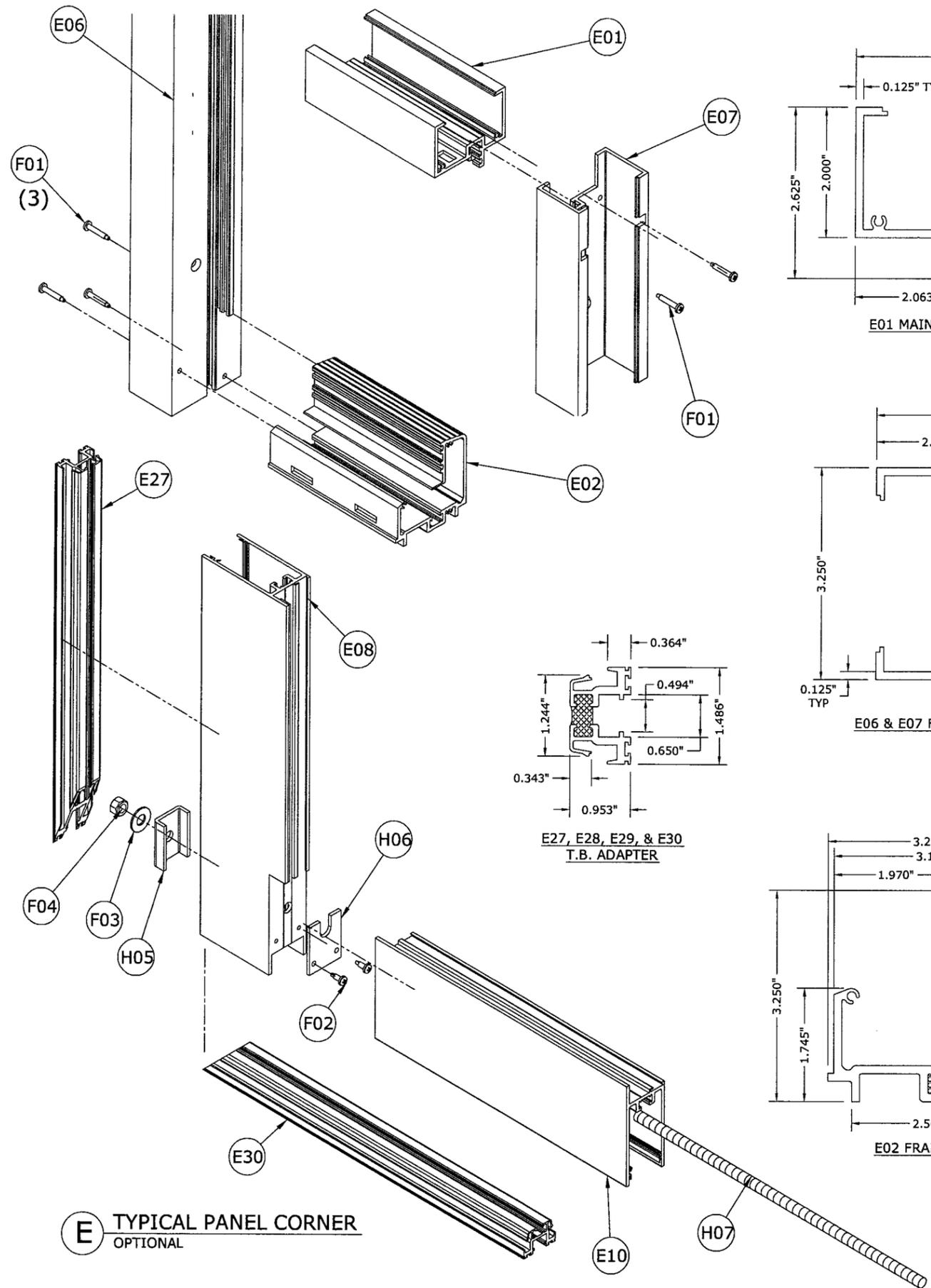
03-0041-113b

PAGE SCALE: -

DESCRIPTION:

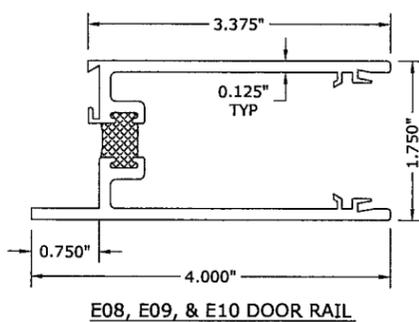
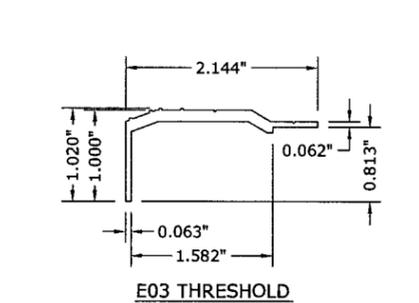
08/31/2007 - 1:07pm clangley F:\01 Project Files\Traco (TRA)\2003 Jobs\03-0041-113a + 03-0041-113b Traco 8910 HGD, LMI + SMI (NOAs)\Traco 8910 Terrace Door, Small Missile (#03-0041-103B) REV 4.3.dwg

08/31/2007 - 1:07pm clangley F:\01 Project Files\Traco (TPA)\2003 Jobs\03-0041-113a + 03-0041-113b\Traco 8910 HGD, LMI + SMI (NOAs)\Traco 8910 Terrace Door, Small Missile (#03-0041-103B) REV 4.3.dwg

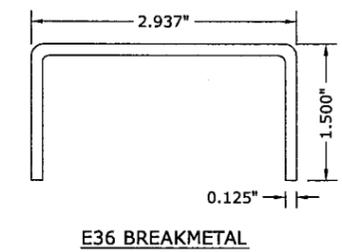
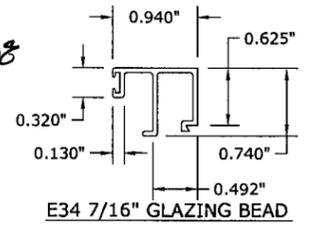
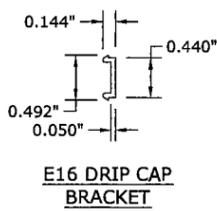
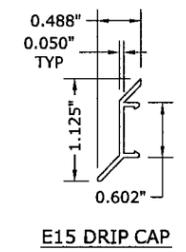


**BILL OF MATERIALS**

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\"/>			



**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No 06-1121-11  
 Expiration Date DEC 04, 2008  
 By Chag I. Chanda  
 Miami Dade Product Control  
 Division



FRANK L. BENNARDO, P.E.  
 # PE0046549

08/31/2007

LICENSED AFFILIATE OF  
**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

**TRACO**  
 Windows & Doors Inc.  
 71 Progress Avenue  
 Cranberry Township, PA 16166  
 HGD 8910 TERRACE DOOR SYSTEM  
 SMALL MISSILE IMPACT RESISTANT  
 MIAMI-DADE PRODUCT APPROVAL

REMARKS	DRWN	CHKD	DATE
COUNTY COMMENTS	RKB	CL	06/04/07
BCCO COMMENTS	CTS	CL	07/31/07
2004 FBC	MEH	CL	08/31/07
GE SILICONE OPTION	CL	FLB	07/18/05
	KL	CL	10/23/06

03-0041-113b

PAGE SCALE: -  
 DESCRIPTION: