



**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" Outswing Aluminum Terrace Door**

**APPROVAL DOCUMENT:** Drawing No. **03-0041-103B**, titled "HGD 8910 Terrace Door System Small-Missile Impact Resistant", prepared by Frank Bennardo, P.E., sheets 1 through 3 of 3, dated 4/17/03 with revision on 10/03/03, 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: 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 consists of this page 1 as well as approval document mentioned above.

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

*MB*  
11/10/2003  


**NOA No 03-0829.06  
Expiration Date: December 04, 2008  
Approval Date: December 04, 2003**

**Traco Windows & Doors, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **03-0041-103B**, titled "HGD 8910 Terrace Door System Small-Missile Impact Resistant", prepared by Frank Bennardo, P.E., sheets 1 through 3 of 3, dated 4/17/03 with revision on 10/03/03, 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 patio door, prepared by Hurricane Test Laboratory, Inc., Test Report No. HTL 0611-02 dated 06/11-8/14/02, signed and sealed by Vinu J.Abraham, 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) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 4) Force Entry Test, per FBC 2411 3.2.1 and TAS 202-94along with marked-up drawings and installation diagram of a patio door, prepared by Hurricane Test Laboratory, Inc., Test Report No. HTL 0021-0925-02 dated 09/24-27/02, signed and sealed by Vinu J.Abraham, P.E.

**C. CALCULATIONS**

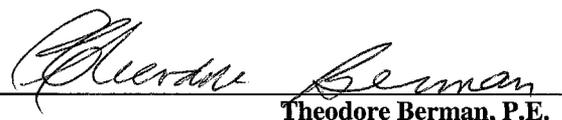
1. Anchor Calculations and structural analysis, prepared by manufacturer, dated 8/15/03, signed and sealed by Frank Bennardo, P.E.
2. Complies with ASTM-E1300-98

**D. QUALITY ASSURANCE**

1. Miami-Dade County Building Code Compliance Office.

**E. STATEMENTS**

1. Statement letter of no financial interest, dated 8/25/03, signed and sealed by Frank Bennardo, P.E.
2. Statement letter of conformance, dated 8/25/03, signed and sealed by Frank Bennardo, P.E.

  
Theodore Berman, P.E.

Deputy Director, Product Control Division

NOA No 03-0829.06

Expiration Date: December 04, 2008

Approval Date: December 04, 2003

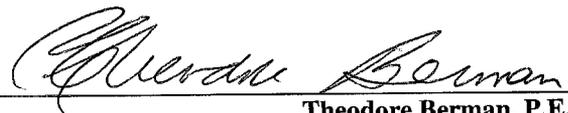
**Traco Windows & Doors, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

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 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.

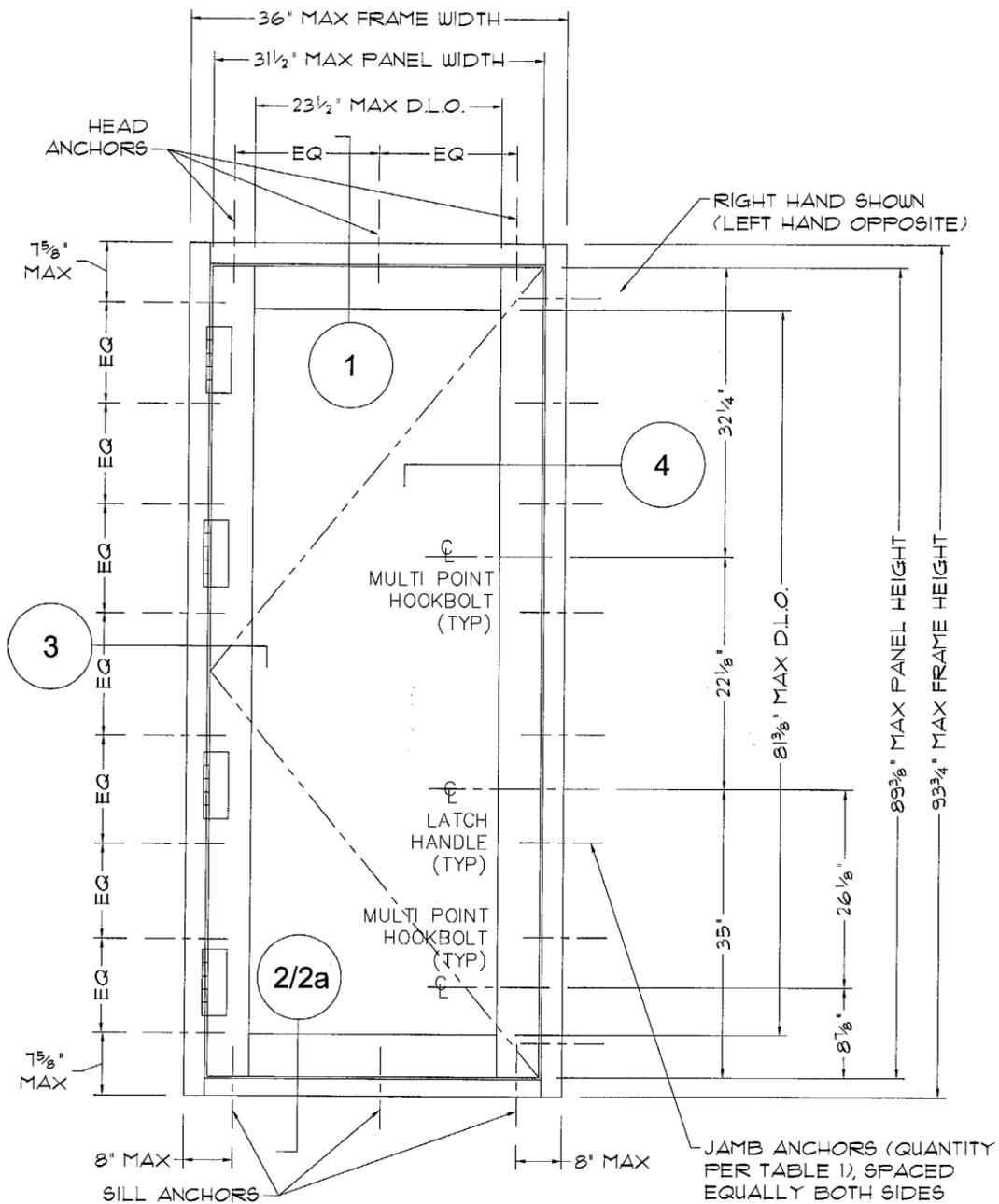
Deputy Director, Product Control Division

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# SMALL-MISSILE IMPACT RESISTANT TERRACE DOOR



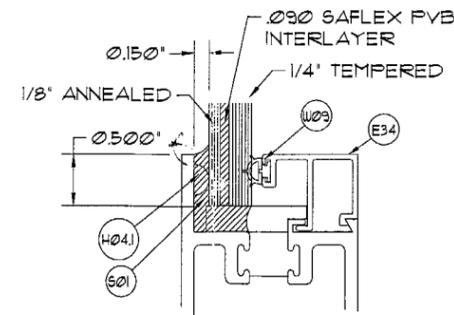
## A EXTERIOR ELEVATION

### ANCHOR LOCATIONS & SPACING:

HEAD & SILL: ANCHORS PLACED AS SHOWN ABOVE.

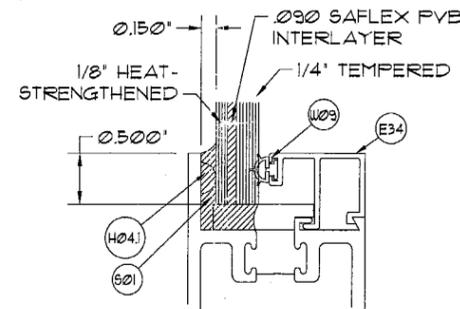
JAMBS: (1) ANCHOR @ 7 7/8\"/>

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



## B 7/16\"/>

MAXIMUM ALLOWABLE PRESSURES:	+130 PSF -150 PSF
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## C 7/16\"/>

MAXIMUM ALLOWABLE PRESSURES:	+130 PSF -150 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 TAG 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 TAG-201, TAG-202, & TAG-203 AS REFERENCED IN TEST REPORT #0021-0611-02 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 7/16\"/>

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

Approved as complying with the Florida Building Code  
Date 12/04/03  
NOA# 03-0029-06  
Miami Dade Product Control Division  
*Frank L. Bennardo*

REVISIONS	DESCRIPTION	DATE
LARGE/SMALL SPLIT		8/1/2003
-150 MAX DP		10/3/2003

SCALE: 3/4\"/>

SHEET  
1 OF 3

OCT 03 2003  
FRANK L. BENNARDO, P.E.  
FE0046543

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

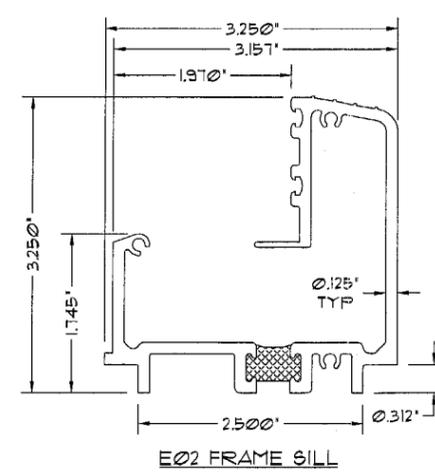
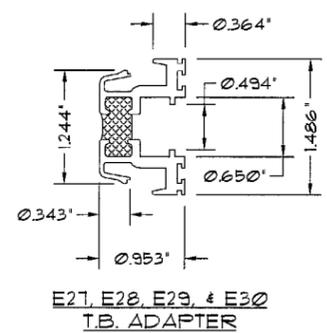
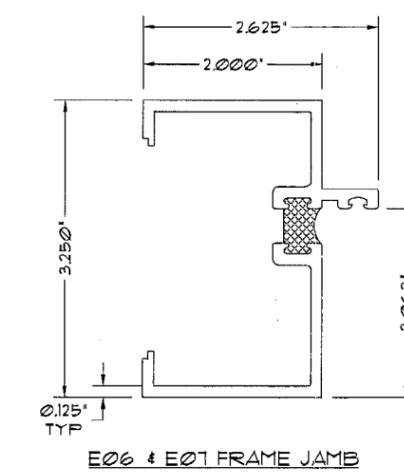
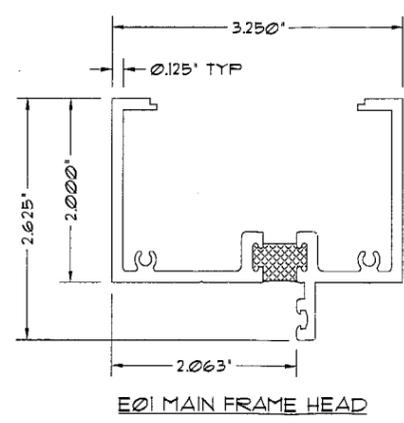
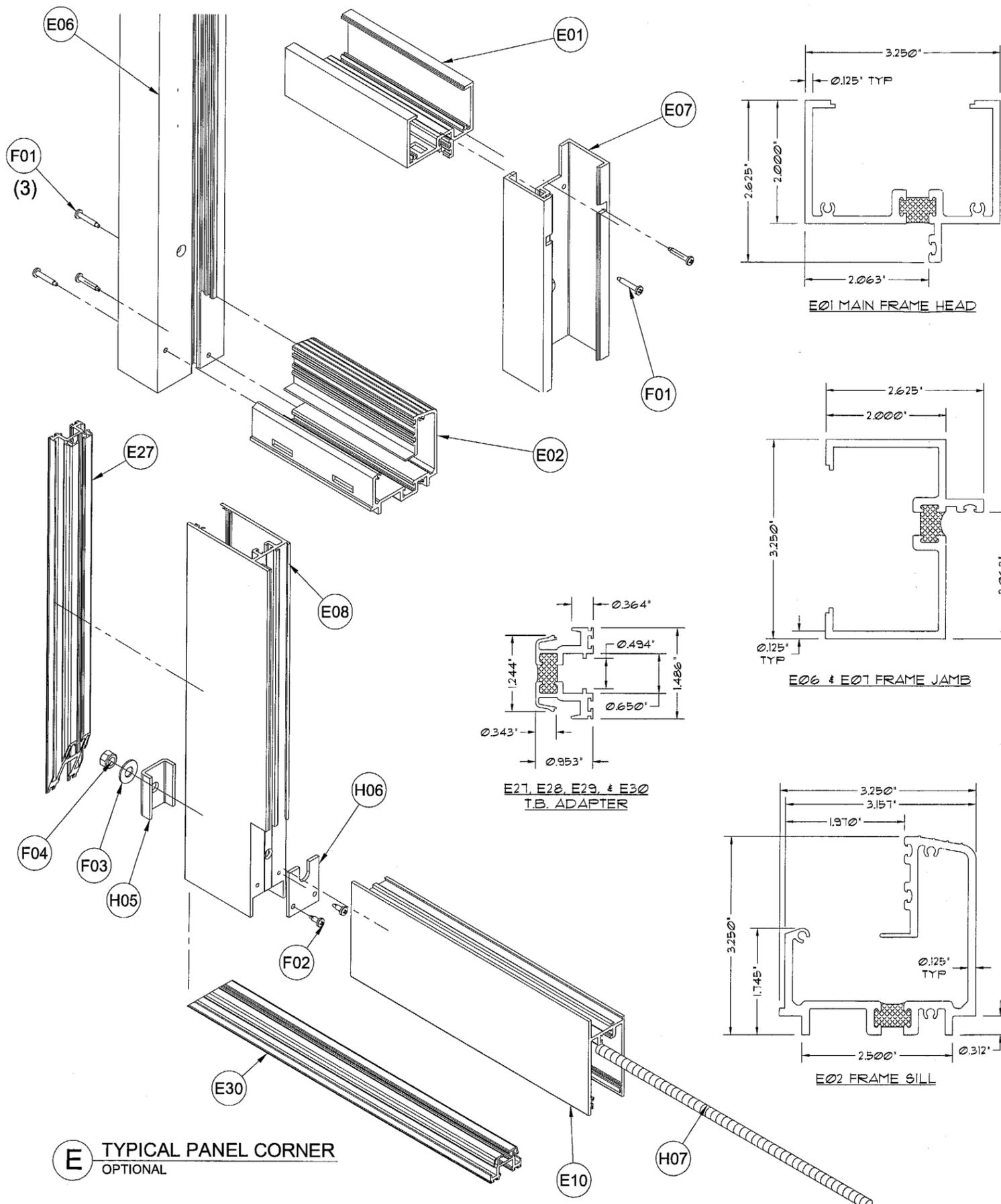
71 Progress Avenue,  
Cranberry Township, PA 16166  
Tel. (724) 776-7000

**TRACO**  
Windows & Doors Inc.

HGD 8910 TERRACE DOOR SYSTEM  
SMALL-MISSILE IMPACT RESISTANT

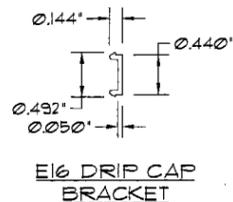
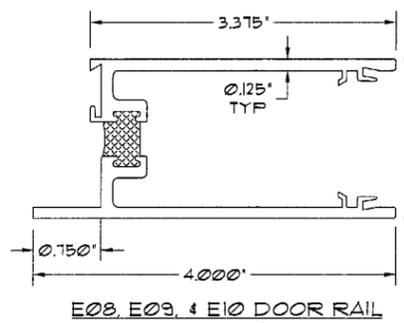
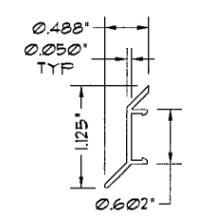
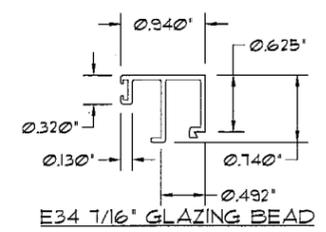
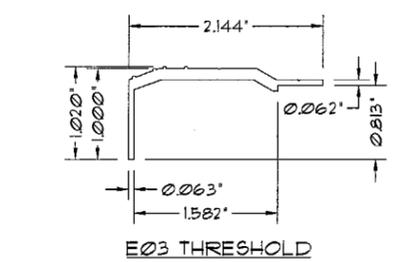






**BILL OF MATERIALS**

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



**E** TYPICAL PANEL CORNER  
OPTIONAL

Approved as complying with the  
Florida Building Code  
Date 12/04/03  
NOA# 03-0829.06  
Miami Dade Product Control  
Division  
By: *Alvera Berme*

**TRACO**  
Windows & Doors Inc.

HGD 8910 TERRACE DOOR SYSTEM  
SMALL-MISSILE IMPACT RESISTANT

71 Progress Avenue,  
Cranberry Township, PA 16166  
Tel. (724) 776-7000

REVISIONS

DESCRIPTION	DATE
LARGE/SMALL SPLIT	8/12/003
-150 MAX DP	10/13/003

SCALE: 1:2 (UNO.)  
DRAIN BY: CL  
CHECKED BY: FLB  
DWG DATE: 4/17/003  
DWG #: 03-0041-103B

OCT 03 2003

FRANK L. BENNARDO, P.E.  
CONSULTING ENGINEER  
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EMAIL: FRANK@FLBENGINEERING.COM