



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

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

**NOTICE OF ACCEPTANCE (NOA)**

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 – S.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **03-0041-103b**, titled "HGD 8910 Terrace Door System Small-Missile Impact Resistant", prepared by Frank Bennardo, P.E., Inc. Consulting Engineers, sheets 1 through 3 of 3, dated 4/17/03 with revision on 07/18/05, signed and sealed by Frank 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 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 # 03-0829.06** 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., Director, BCCO**

*MJ 9/16/2005*

NOA No **05-0729.02**  
Expiration Date: **December 04, 2008**  
Approval Date: **October 06, 2005**  
Page 1

**TRACO Security 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., Inc. Consulting Engineers, sheets 1 through 3 of 3, dated 4/17/03 with revision on 07/18/05, signed and sealed by Frank Bennardo, P.E.

**B. TESTS**

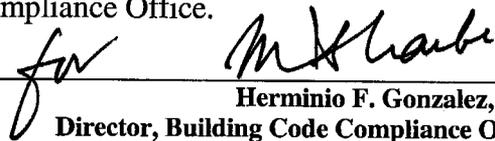
1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Small Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up 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.  
**"Submitted under NOA# 03-0829.06"**
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 202-94  
along 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.  
**"Submitted under NOA# 03-0829.06"**

**C. CALCULATIONS**

1. Revised Anchor Calculations and structural analysis, prepared by Frank L. Bennardo, P.E. Consulting Engineer, dated 06/21/05, signed and sealed by Frank Bennardo, P.E.
2. Anchor Calculations and structural analysis, prepared by manufacturer, dated 8/15/03, signed and sealed by Frank Bennardo, P.E.  
**"Submitted under NOA# 03-0829.06"**  
**Complies with ASTM E1300-98**  
**No 1/3 stress increase used in anchors into masonry or steel substrate.**

**D. QUALITY ASSURANCE**

1. Miami-Dade County Building Code Compliance Office.

  
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Herminio F. Gonzalez, P.E.  
Director, Building Code Compliance Office

NOA No 05-0729.02

Expiration Date: December 04, 2008

Approval Date: October 06, 2005

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

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**E. MATERIAL CERTIFICATIONS**

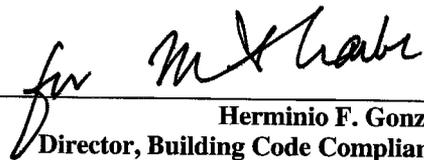
1. Notice of Acceptance No. **01-0205.02** issued to Solutia, Inc. for "Saflex/Keepsafe Maximum" dated 5/17/01, expiring on 5/21/06.

**F. STATEMENTS**

1. Statement letter of no financial interest, dated 07/01/05, signed and sealed by Frank Bennardo, P.E.
2. Statement letter of conformance, dated 07/01/05, 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. **"Submitted under NOA# 03-0829.06"**
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. **"Submitted under NOA# 03-0829.06"**

**G. OTHER**

1. Letter from the consultant, dated 08/11/05, stating that the product is in compliance with Florida Building Code (FBC).
2. Notice of Acceptance No. **03-0829.06**, issued to TRACO Security Windows & Doors, Inc. for their HGD 8910 Terrace Door System Small-Missile Impact Resistant, approved on 12/04/03 and expiring on 12/04/08.



Herminio F. Gonzalez, P.E.  
Director, Building Code Compliance Office

NOA No 05-0729.02

Expiration Date: December 04, 2008

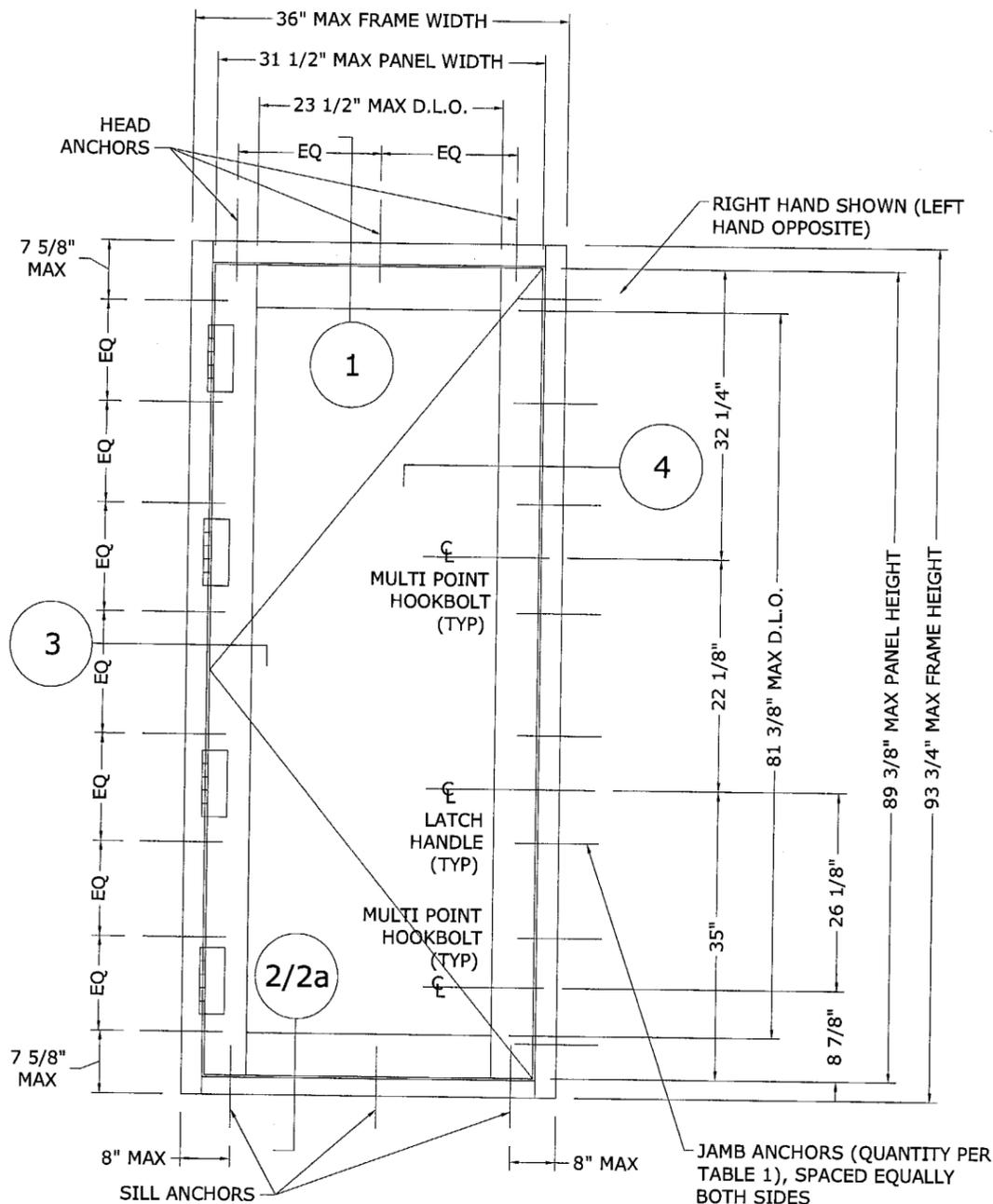
Approval Date: October 06, 2005

# SERIES HGD 8910 TERRACE DOOR

(SMALL MISSILE IMPACT RESISTANT)

FRANK L. BENNARDO, P.E.  
# PE0046549

07/22/2005



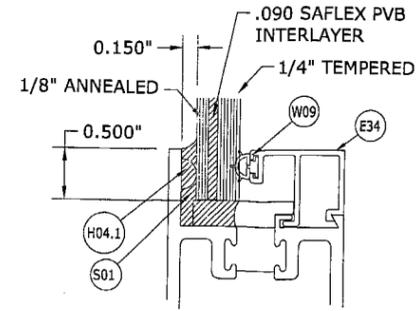
## A EXTERIOR ELEVATION

### ANCHOR LOCATIONS & SPACING:

HEAD & SILL: ANCHORS PLACED AS SHOWN ABOVE.

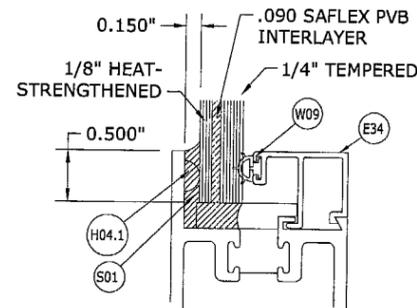
JAMBS: (1) ANCHOR @ 7 5/8" FROM EACH CORNER.  
REMAINING ANCHORS SPACED EQUALLY.

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



## B 7/16" GLAZING DETAIL (SMALL MISSILE)

MAXIMUM ALLOWABLE PRESSURES:	+130 PSF -150 PSF
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## C 7/16" GLAZING DETAIL (SMALL MISSILE)

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 2004 FLORIDA BUILDING CODE, 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.
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). 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" LAMINATED GLASS (WITH ANNEALED OR HEAT-STRENGTHENED OUTBOARD LITE) 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.

**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  
 CERTIFICATE OF AUTHORIZATION: #9885



HGD 8910 TERRACE DOOR SYSTEM  
 SMALL MISSILE IMPACT RESISTANT  
 MIAMI-DADE PRODUCT APPROVAL

REMARKS	DRWN	CHKD	DATE
INT ISSUE	CL	FLB	4/17/03
LARGE/SMALL SPLIT	CL	FLB	8/21/03
-150 MAX DP	CL	FLB	10/3/03
2004 FCC	CL	FLB	7/18/05

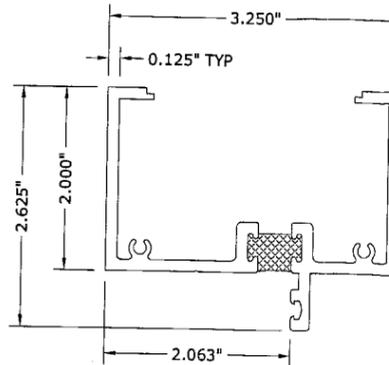
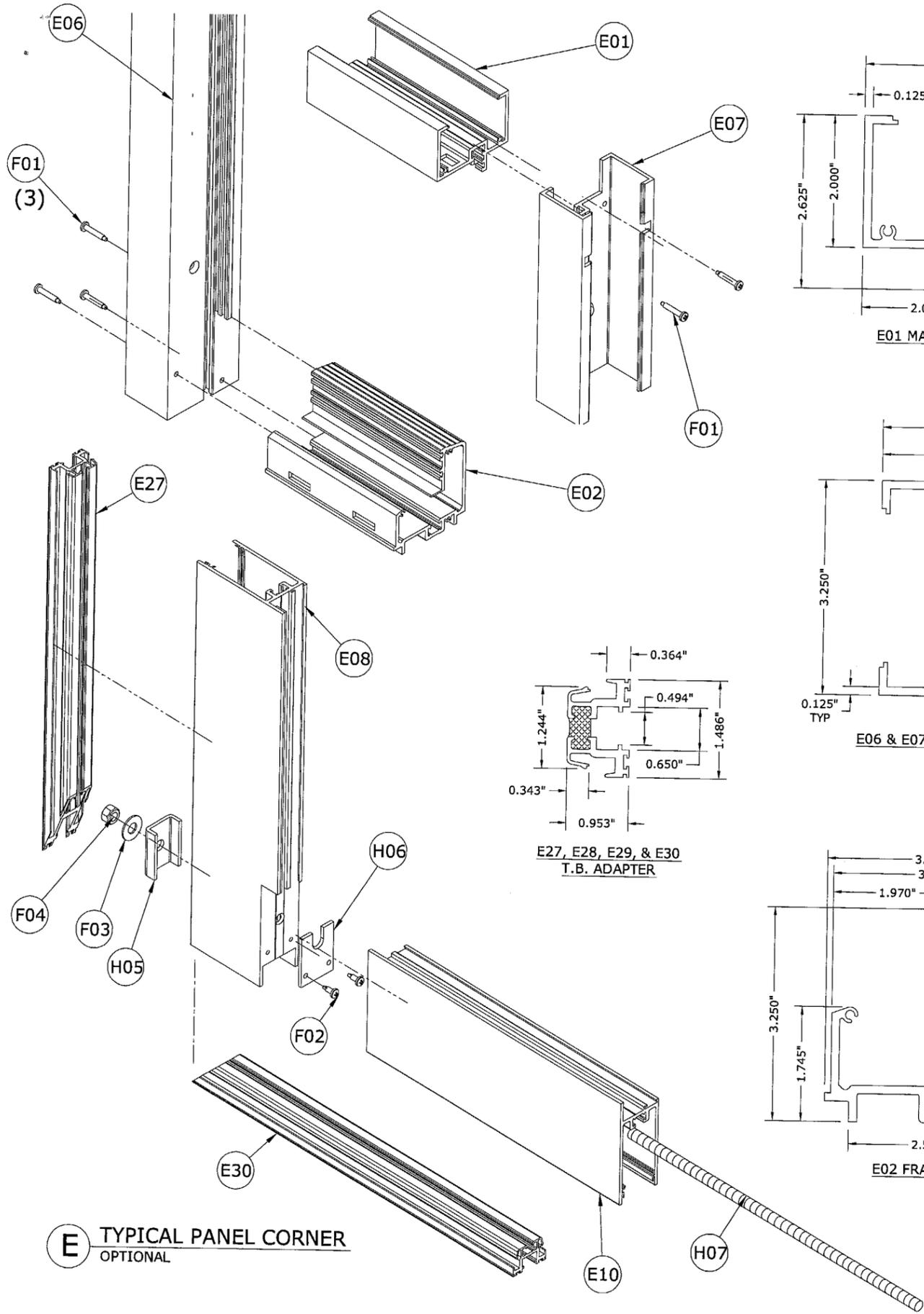
**PRODUCT REVISED**  
 to comply with the Florida  
 Building Code  
 Acceptance No. **05-0329.02**  
 Expiration Date **12/09/08**  
 By *[Signature]*  
 Miami Dade Product Control  
 Division

**03-0041-103b**

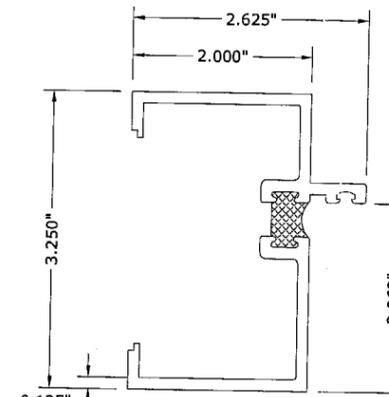
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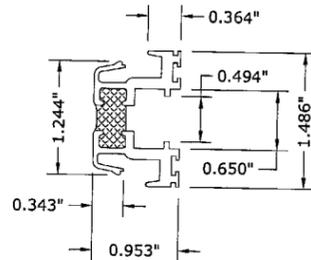
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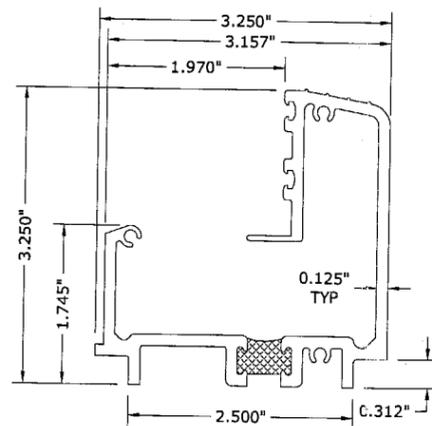
E01 MAIN FRAME HEAD



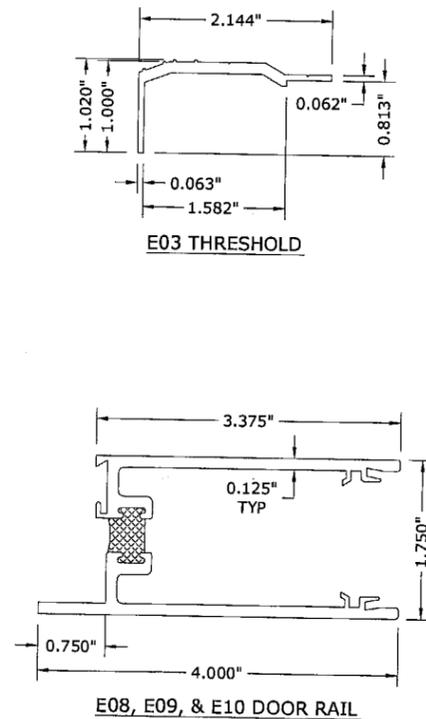
E06 & E07 FRAME JAMB



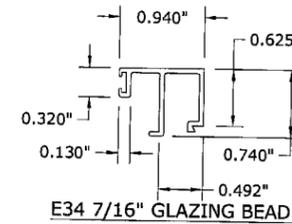
E27, E28, E29, & E30 T.B. ADAPTER



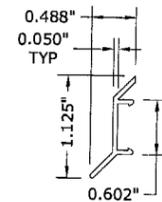
E02 FRAME SILL



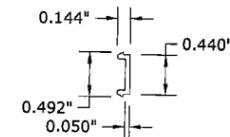
E03 THRESHOLD



E34 7/16\"/>



E15 DRIP CAP



E16 DRIP CAP BRACKET

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\"/>					

FRANK L. BENNARDO, P.E.  
# PE0046549

07/22/2005

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HGD 8910 TERRACE DOOR SYSTEM  
SMALL MISSILE IMPACT RESISTANT  
MIAMI-DADE PRODUCT APPROVAL

DRWN	CHKD	DATE
CL	FLB	4/17/03
CL	FLB	8/21/03
CL	FLB	10/3/03
CL	FLB	7/18/05

03-0041-103b  
PAGE SCALE: -  
DESCRIPTION:

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 05-0229.02  
Expiration Date 12/03/08  
By *[Signature]*  
Miami Dade Product Control  
Division