



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.miamidade.gov/buildingcode

NOTICE OF ACCEPTANCE (NOA)

TRACO Windows & Doors
71 Progress Avenue
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 "3000" Aluminum Sliding Glass Doors

APPROVAL DOCUMENT: Drawing No.04-113-0006, titled "Series 3000 Aluminum Sliding Glass Door", sheets 1 through 6 of 6, prepared by Engineering Express, dated 06/03/03 and last revised on 07/10/08, signed and sealed by Frank L.Bennardo, P.E., bearing the Miami-Dade County Product Control Renwal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None: Approved Hurricane Protection Devices, complying w/FBC, as applicable are required

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.

REVISION of this NOA shall be considered after a revision 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 **renews NOA # 05-1020.02** and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above

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



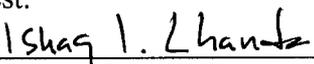
NOA No 08-0229.03
Expiration Date: June 05, 2009
Approval Date: July 31, 2008

7/11/08

TRACO Windows & Doors Inc.

NOTICE OF ACCEPTANCE: EVIDENCE PAGE

- A. DRAWINGS** (transferred from file # 05-1020.02)
1. Manufacturer's die drawings and sections.
 2. Drawing No. **04-113-0006**, titled "Series 3000 Aluminum Sliding Glass Door", sheets 1 through 6 of 6, prepared by Engineering Express, dated 06/03/03 and last revised on 07/10/08, signed and sealed by Frank L. Bennardo, P.E.
- B. TESTS** (transferred from file # 05-1020.02)
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) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with installation diagram and marked-up drawings of an aluminum sliding glass door prepared by Farabaugh Engineering and Testing, Inc., No. **FET-TI60-04**, dated June 23, 2004, signed and sealed by Daniel G. Farabaugh, P.E.
 2. Additional test reports:
 - 2.1 Test report No. T-160.04 dated June 23, 2004, tested per FBC, TAS 202-94, issued by along with installation diagram and marked-up drawings of an aluminum sliding glass door prepared by Farabaugh Engineering and Testing, Inc., signed and sealed by Daniel G. Farabaugh, P.E.
 - 2.2 Test report No. FTL 1303 dated May 1996, tested per SFBC, PA202-94, issued by along with installation diagram and marked-up drawings of an aluminum sliding glass door prepared by Fenestration Testing Lab, Inc., signed and sealed by Late Gil diamond, P.E.
- C. CALCULATIONS**
1. Anchor Calculation and comparative analysis, prepared by Engineering Express, dated 09/26/05, signed and sealed by Frank L. Bennardo, P.E.
 2. Glazing with ASTM E1300-98/ 02
- D. QUALITY ASSURANCE**
1. Miami Dade Building Code Compliance Office (BCCO).
- E. MATERIAL CERTIFICATIONS**
1. None
- F. STATEMENTS**
1. Statement letter of conformance and no financial interest, dated 09/26/05, signed and sealed by Frank L. Bennardo, P.E.
 2. Statement letter of lab compliance as part of the test report.
 3. Statement letter dated 02-19-08, issued by Farabaugh Engineering and Testing for ongoing test for Traco, signed by Patrick J. Farabaugh, P.E.
- G. OTHERS**
1. This NOA **renews** NOA # **05-1020.02**, expired on June 05, 2008.
 2. Conditional one year approval, subjected to successful verification test.

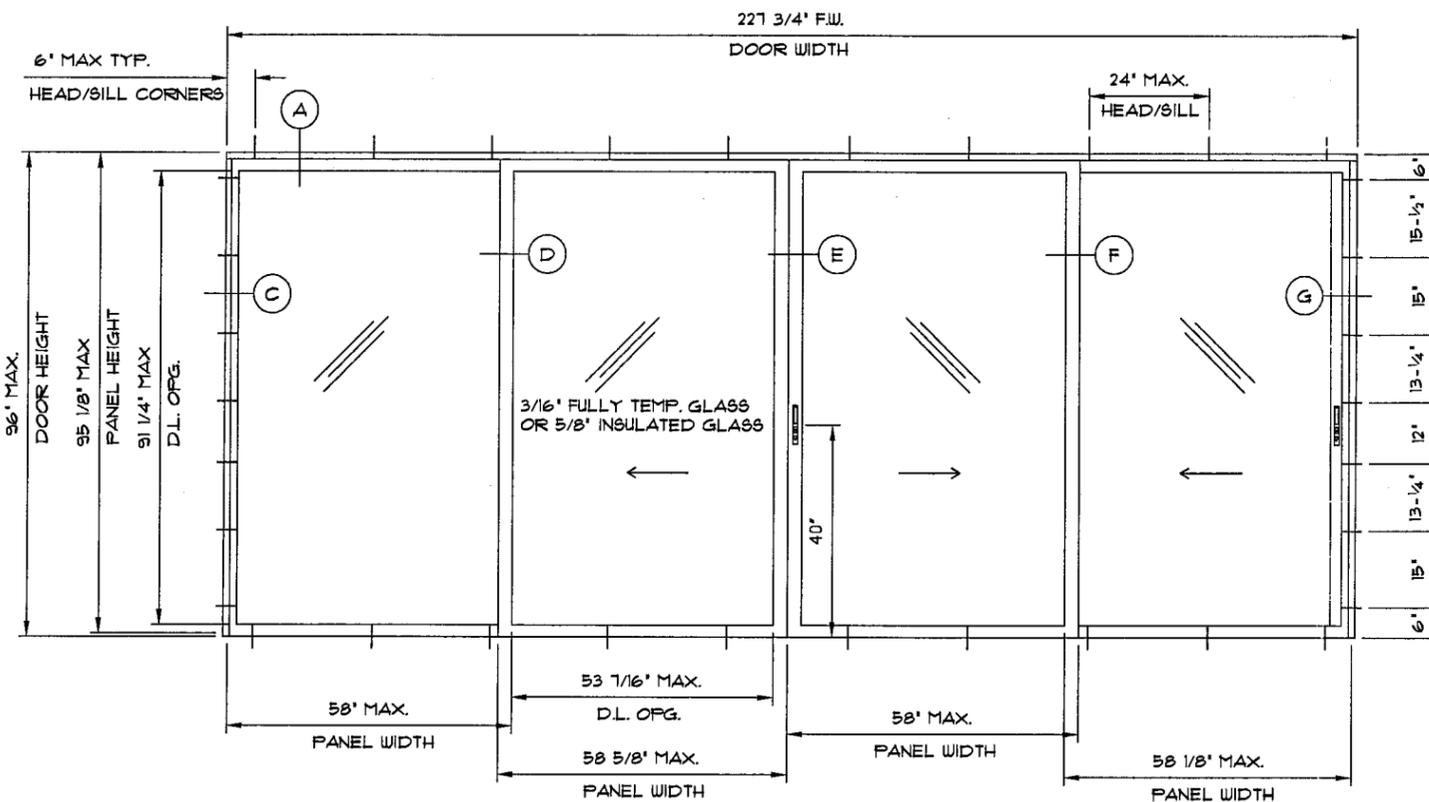

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 08-0229.03
Expiration Date: June 05, 2009
Approval Date: July 31, 2008

SERIES 3000 ALUMINUM SLIDING GLASS DOOR:

FRANK L. BENNARDO, P.E.
PE0046549

07/10/2008

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

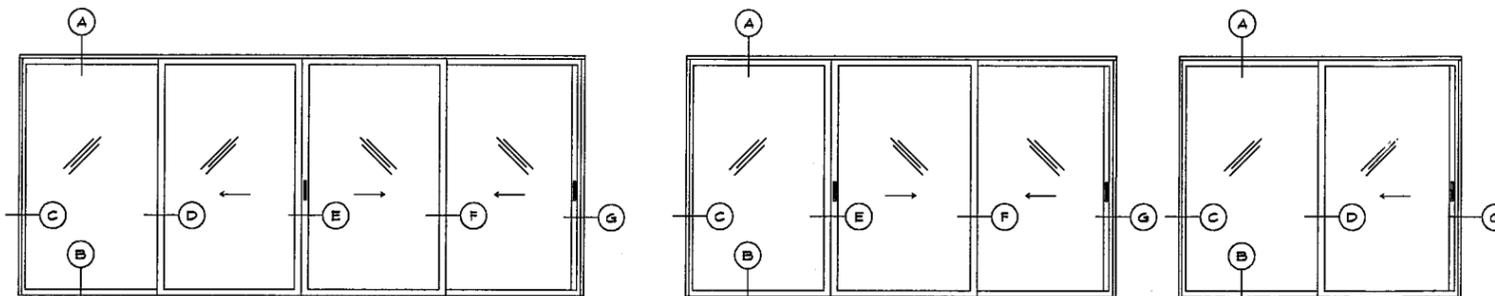


TYPICAL ELEVATION
TESTED UNIT

DOOR DIMS.		3/16" FULLY TEMP. GLASS OR 5/8" INSULATED GLASS	
PANEL WIDTH	DOOR HEIGHT	EXT. (+)	INT. (-)
2/6	6/8	60.0	85.4
3/0		60.0	74.6
3/6		60.0	67.2
4/0		60.0	62.0
4/6		58.2	58.2
5/0	55.5	55.5	
2/6	8/0	60.0	68.6
3/0		59.3	59.3
3/6		52.9	52.9
4/0		48.2	48.2
4/6		44.7	44.7
5/0	41.7	41.7	

GENERAL NOTES:

1. THE ALUMINUM SLIDING GLASS DOOR SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN COMPLIANCE WITH THE FLORIDA BUILDING CODE 2004, HIGH VELOCITY HURRICANE ZONES, AND MIAMI-DADE COUNTY PROTOCOLS TAB 202.
2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR $C_d=1.6$ 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 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.
5. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKS INSTALLED BY OTHERS SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
6. DOORS PANELS GLAZED WITH 3/16" FULLY TEMPERED GLASS OR 5/8" INSULATED GLASS SHALL BE PROTECTED WITH MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS.
7. ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED.



OXXX (SHOWN)
OXXO

OXX (SHOWN)
OXO
XXX

OX (SHOWN)
XO
XX

ALLOWABLE PANEL CONFIGURATIONS

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 08-0229.03
Expiration Date JUNE 05, 2009
By: Frank L. Bennardo
Miami Dade Product Control
Division

DRWN	CHKD	DATE
CL	FLB	06/03/03
CL	FLB	08/11/04
CL	FLB	02/09/06
KL	CL	07/10/08

04-113-0006

SCALE: 01

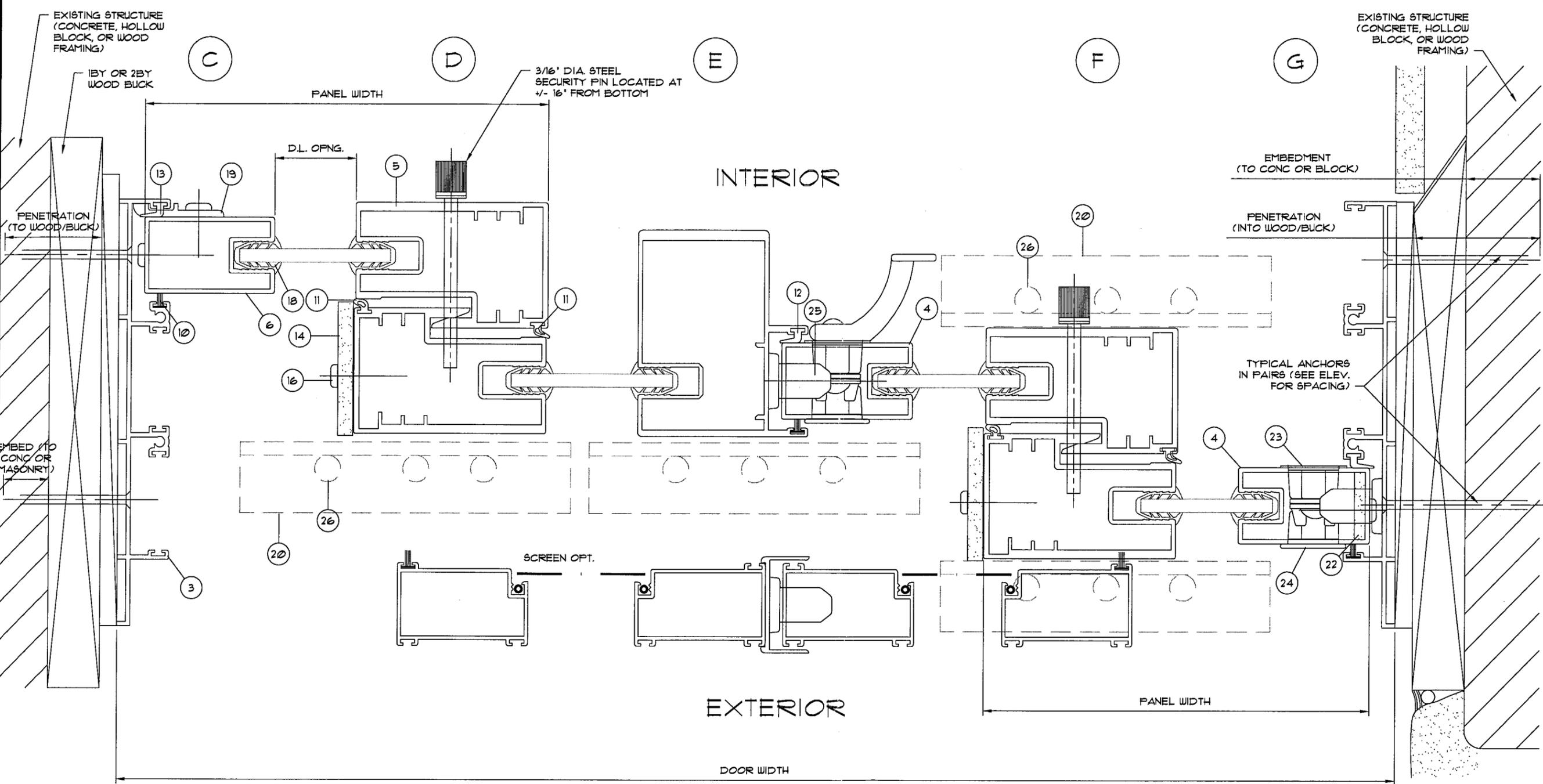
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REMARKS	DRWN	CHKD	DATE
ORIGINAL	CL	FLB	06/03/03
INSUL GLASS	CL	FLB	08/11/04
2004 FBC	CL	FLB	02/09/06
REMOVE 5' & 6' HEIGHTS	KL	CL	07/10/08

04-113-0006
SCALE: 1/8" = 1'-0"
PAGE DESCRIPTION: 01

2

F:\01 Project Files\Traco (TRA)\2004 Jobs\04-113-0006 Series 3000 SGD (Non-Impact)\04-113-0006 02a Series 3000 SGD (Non-Impact).dwg
07/10/2008 - 2:38pm keithl



TYPICAL ANCHORS: SEE TYPICAL ELEV. (SHEET 1) FOR SPACING

INTO 2BY WOOD BUCKS OR WOOD STRUCTURE:
#14 SMS, 1-3/8" MIN. WOOD PENETRATION

THRU WOOD BUCKS INTO CONCRETE/MASONRY OR DIRECTLY INTO CONCRETE/MASONRY:
1/4" TAPCONS, 1-1/4" MIN CONCRETE/MASONRY EMBED
(TAPCONS BY 'ELCO' OR 'ITW', OR EQUIV. CONC. ANCHOR HOLDING CURRENT NOA)

SEALANTS:

ALL FRAME AND PANEL CORNERS AND INSTALLATIONS
SCREWS SEALS WITH WHITE/ALUMINUM COLORED 'SUPER SEAL' SEALANT.

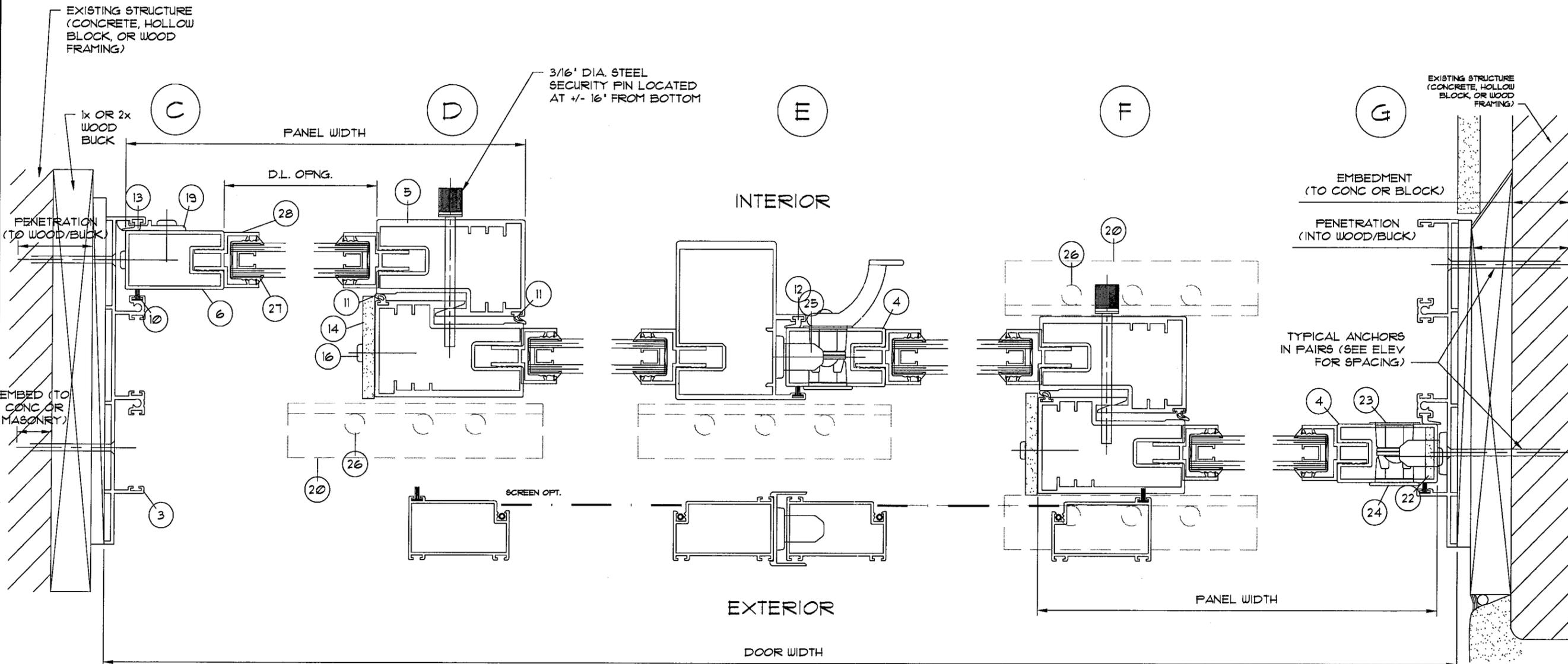
REFERENCE ANCHOR NOTES ON SHEET 3 OF THESE DRAWINGS

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 05-0229-03
Expiration Date: JUNE 05, 2009
By: Isaac L. Corrao
Miami-Dade Product Control
Division

07/10/2008

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
SERIES 3000 ALUMINUM
SLIDING GLASS DOOR



TYPICAL ANCHORS: SEE TYPICAL ELEV. (SHEET 1) FOR SPACING

INTO 2BY WOOD BUCKS OR WOOD STRUCTURE:
#14 SMS, 1-3/8" MIN. WOOD PENETRATION

THRU WOOD BUCKS INTO CONCRETE/MASONRY OR DIRECTLY INTO CONCRETE/MASONRY:
1/4" TAPCONS, 1-1/4" MIN CONCRETE/MASONRY EMBED
(TAPCONS BY "ELCO" OR "ITW", OR EQUIV. CONC. ANCHOR HOLDING CURRENT NOA)

SEALANTS:

ALL FRAME AND PANEL CORNERS AND INSTALLATIONS
SCREWS SEALS WITH WHITE/ALUMINUM COLORED 'SUPER SEAL' SEALANT.

REFERENCE ANCHOR NOTES ON SHEET 3 OF THESE DRAWINGS

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 08-0229-03
Expiration Date JUNE 01, 2009
By Frank L. Bennardo
Initial Date Product Control
Division

REMARKS	DRWN	CHKD	DATE
ORIGINAL	CL	FLB	06/03/03
INSUL GLASS	CL	FLB	08/11/04
2004 FBC	CL	FLB	02/09/06
REMOVE 5' & 6' HEIGHTS	KL	CL	07/10/08

04-113-0006

SCALE: 01

PAGE DESCRIPTION:

07/10/2008



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



Windows & Doors Inc.
71 PROGRESS AVENUE
CRANBERRY TOWNSHIP, PA 16166

SERIES 3000 ALUMINUM
SLIDING GLASS DOOR

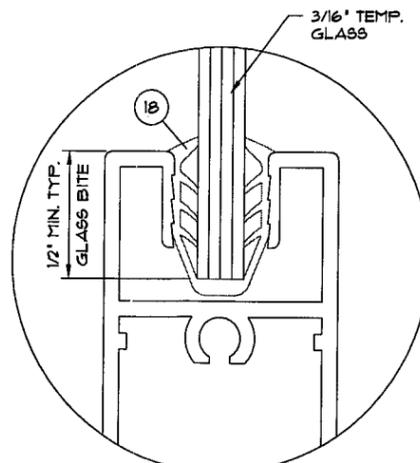
REMARKS	DRWN	CHKD	DATE
ORIGINAL	CL	FLB	06/03/03
INSUL GLASS	CL	FLB	08/11/04
2004 FCC	CL	FLB	02/09/06
REMOVE 5' & 6' HEIGHTS	KL	CL	07/10/08

04-113-0006

SCALE: 1/4" = 1'-0"
PAGE DESCRIPTION: 01

4

MATERIALS LIST					
ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/COMMENTS
1	050-00-103	1	FRAME HEAD	6063-T5	
2	050-00-420	1	SILL TRACK	6063-T6	MILL FINISH
3	050-00-437	2	FRAME JAMB	6063-T6	
4	051-00-384	AS REQD.	LOCK STILE	6063-T6	
5	051-00-504	4	INTERLOCK	6063-T5	
6	051-00-384	AS REQD.	JAMB STILE	6063-T6	
7	051-00-442	1	MEETING STILE	6063-T6	
8	051-00-383	2/ PANEL	TOP & BOTTOM RAIL	6063-T6	
9	-	1	SILL RISER	6063-T6	
10	047-00-014	-	WOOLFILE	-	
11	046-00-027	AS REQD.	BULB W/STRIPPING	VINYL	
12	046-00-015	AS REQD.	FLAP W/STRIPPING (TOP RAIL)	VINYL	
13	046-00-030	AS REQD.	FLAP W/STRIPPING (JAMB)	VINYL	
14	050-00-000	AS REQD.	CLOSED CELL FOAM PAD 1-5/8" X 1-3/4"	-	AT TOP AND BOTTOM OF INTERLOCK
15	-	2/ CORNER	FRAME ASSEMBLY SCREW	-	#8 X 1" PHPH SMS
16	012-00-130	1/ CORNER	PANEL ASSEMBLY SCREW	-	#10 X 1" PHPH SMS
17	037-00-015	2/ PANEL	WHEEL ASSEMBLY	-	'REFLOCTOUTE' 1935 SERIES
18	046-00-052	AS REQD.	3/16" GLAZING CHANNEL	VINYL	
19	-	3/ PANEL	FIXED PANEL CLIP	ALUMINUM	W/ #6 X 1/2" TEK5 SCREWS
20	-	-	1 X 3/4 X 3/16 X 5 LG. ANGLE	-	
21	-	1/ PANEL	3/4 X 3/4 X 1/8" SQ. TUBE	ALUMINUM	
22	-	AS REQD.	CLOSED CELL FOAM PAD 1-1/8" X 2"	-	AT TOP AND BOTTOM OF JAMB
23	007-00-005	-	L/H INTERIOR FULL W/ NIGHT LATCH	-	
24	007-00-006	-	R/H EXTERIOR FULL W/ LOCK KNOCKOUT	-	
25	007-00-033	-	KEEPER	-	
26	012-00-130	-	HURRICANE ANGLE ANCHOR SCREW	-	#10 X 2" SMS OR 3/16" TAPCONS
27	046-16-021	AS REQD.	GLAZING CHANNEL	VINYL	
28	050-215	AS REQD.	GLAZING ADAPTER	6063-T5	



3/16" MONOLITHIC
GLAZING DETAIL
N.T.S.

TYPICAL ANCHORS: SEE TYPICAL ELEV. (SHEET 1) FOR SPACING

INTO 2BY WOOD BUCKS OR WOOD STRUCTURE:
#14 SMS, 1-3/8" MIN. WOOD PENETRATION

THRU WOOD BUCKS INTO CONCRETE/MASONRY OR DIRECTLY INTO CONCRETE/MASONRY:
1/4" TAPCONS, 1-1/4" MIN CONCRETE/MASONRY EMBED (TAPCONS BY 'ELCO' OR 'ITW', OR EQUIV. CONC. ANCHOR HOLDING CURRENT NOA)

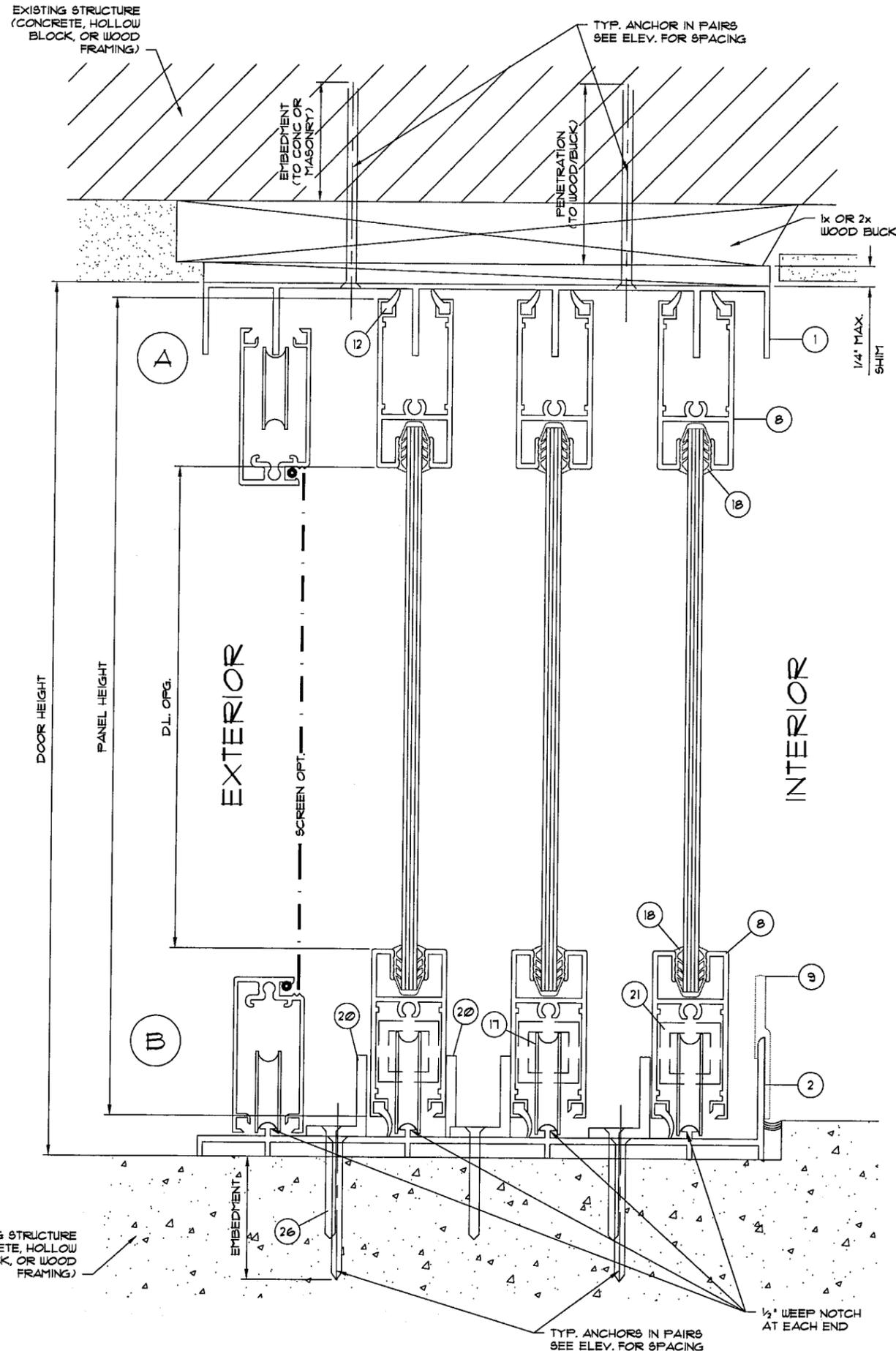
SEALANTS:

ALL FRAME AND PANEL CORNERS AND INSTALLATIONS SCREWS SEALS WITH WHITE/ALUMINUM COLORED 'SUPER SEAL' SEALANT.

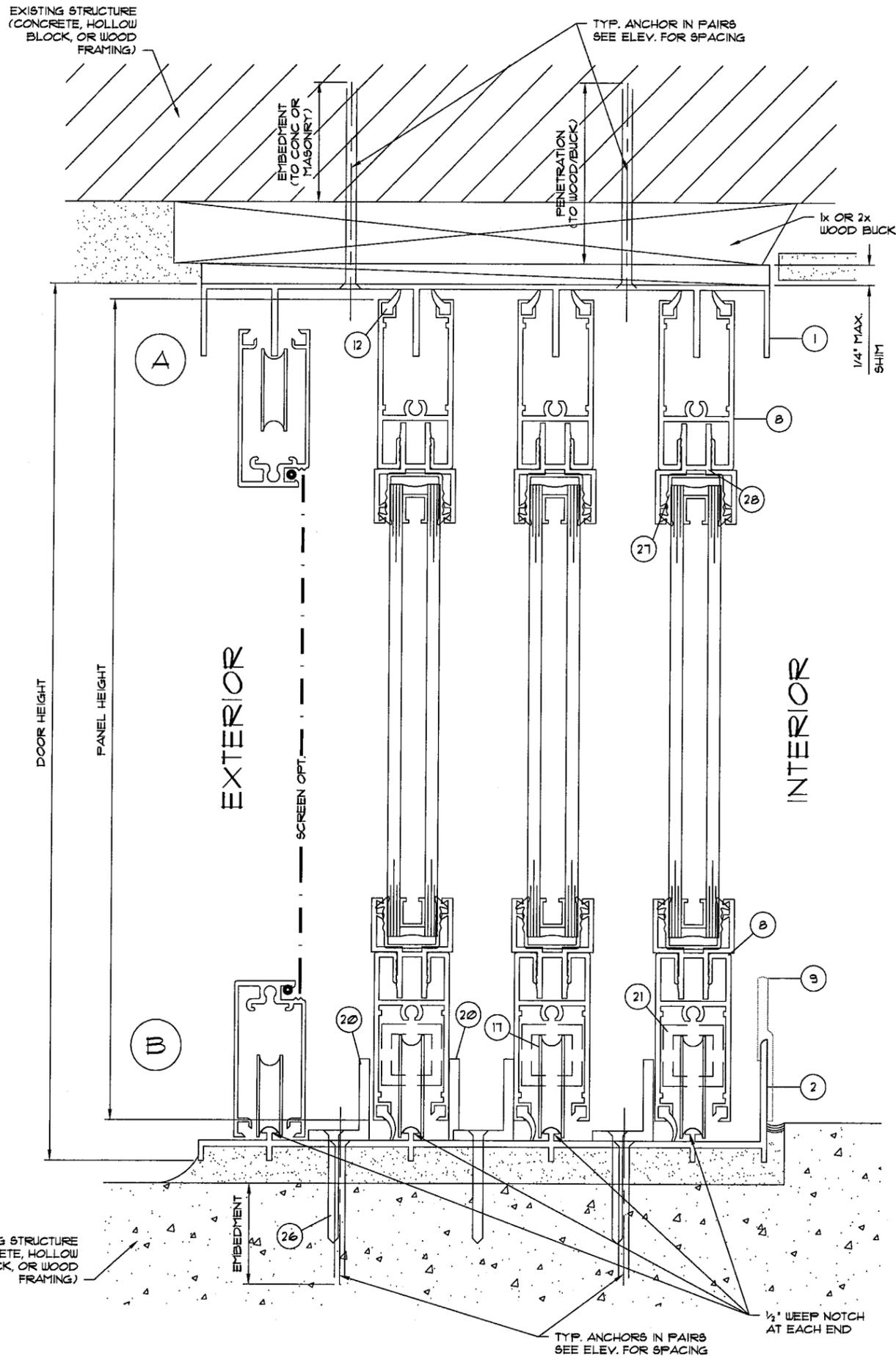
ANCHOR NOTES:

1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
2. ANCHOR EMBEDMENT SHALL BE IN BASE MATERIAL EXCLUDING STUCCO OR WALL FINISH.
3. ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN IN TYPICAL ELEVATION ON SHEET 1.
4. WOOD BUCKS (BY OTHERS) MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO STRUCTURE, AND TO SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 05-0229.03
Expiration Date June 05, 2009
By *Shag L. Chant*
Miami Dade Product Control
Division



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TYPICAL ANCHORS: SEE TYPICAL ELEV. (SHEET 1) FOR SPACING

INTO 2BY WOOD BUCKS OR WOOD STRUCTURE:
#4 SMS, 1-3/8" MIN. WOOD PENETRATION

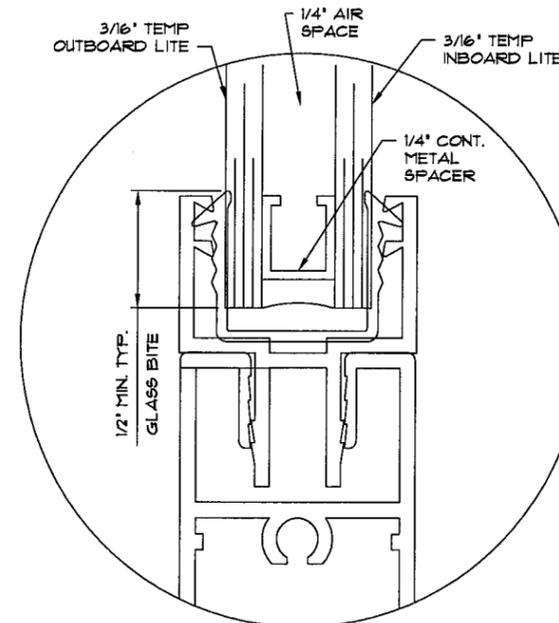
THRU WOOD BUCKS INTO CONCRETE/MASONRY OR DIRECTLY INTO CONCRETE/MASONRY:
1/4" TAPCONS, 1-1/4" MIN CONCRETE/MASONRY EMBED (TAPCONS BY 'ELCO' OR 'ITW', OR EQUIV. CONC. ANCHOR HOLDING CURRENT NOA)

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5/8" INSULATED GLAZING DETAIL
N.T.S.

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 08-0229-03
Expiration Date JUNE 05 2009
By Isaac I. Clark
Miami Dade Product Control Division

FRANK L. BENNARDO, P.E.
PE0046549

07/10/2008



160 SW 12th AVENUE, #106
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CERT OF AUTH #8885
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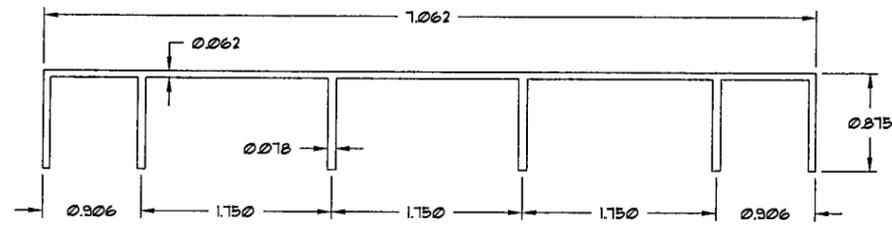
71 PROGRESS AVENUE
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SERIES 3000 ALUMINUM SLIDING GLASS DOOR

REMARKS	DRWN	CHKD	DATE
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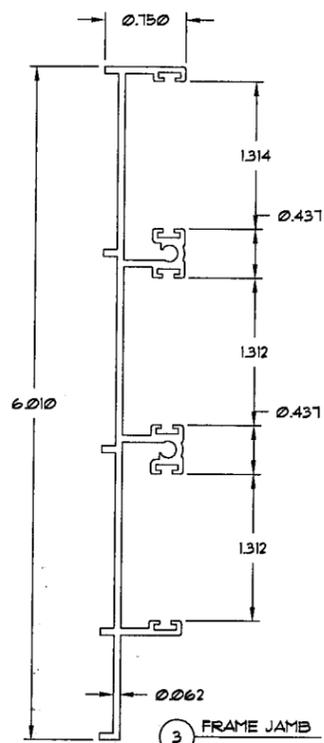
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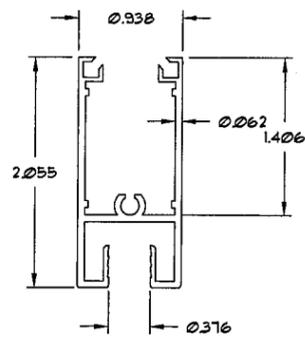
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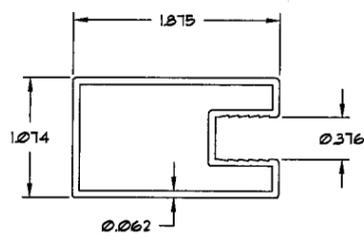
1 FRAME HEAD



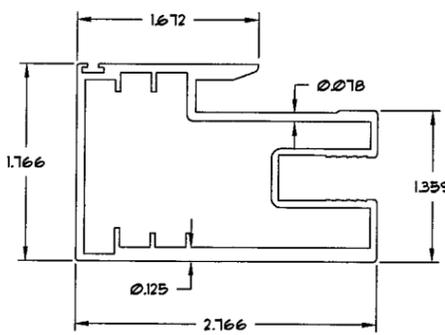
3 FRAME JAMB



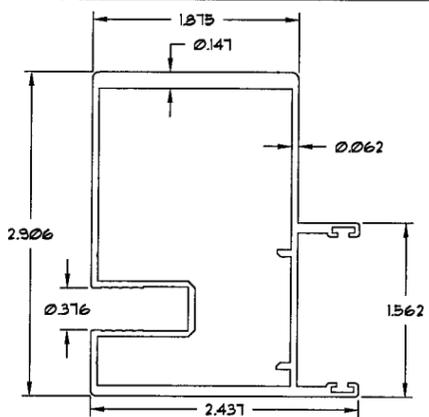
B TOP/BOTTOM RAIL



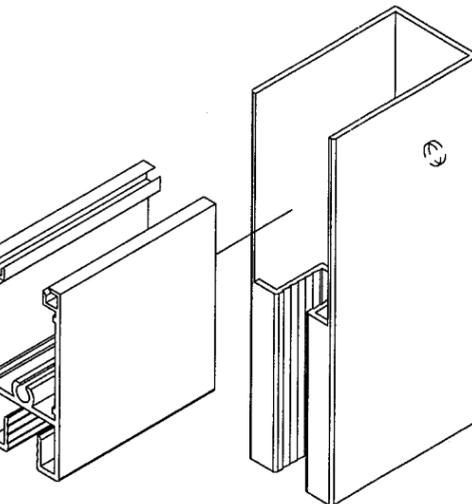
6 JAMB STILE



5 INTERLOCK

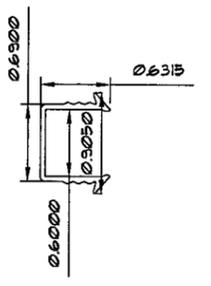


7 MEETING STILE

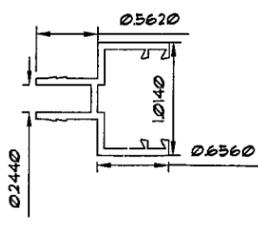


FRAME TOP CORNER

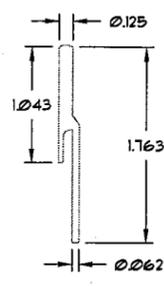
PANEL TOP/BOTTOM CORNER



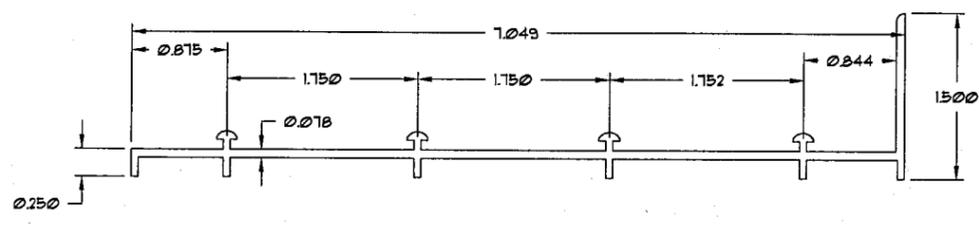
27 GLAZING CHANNEL



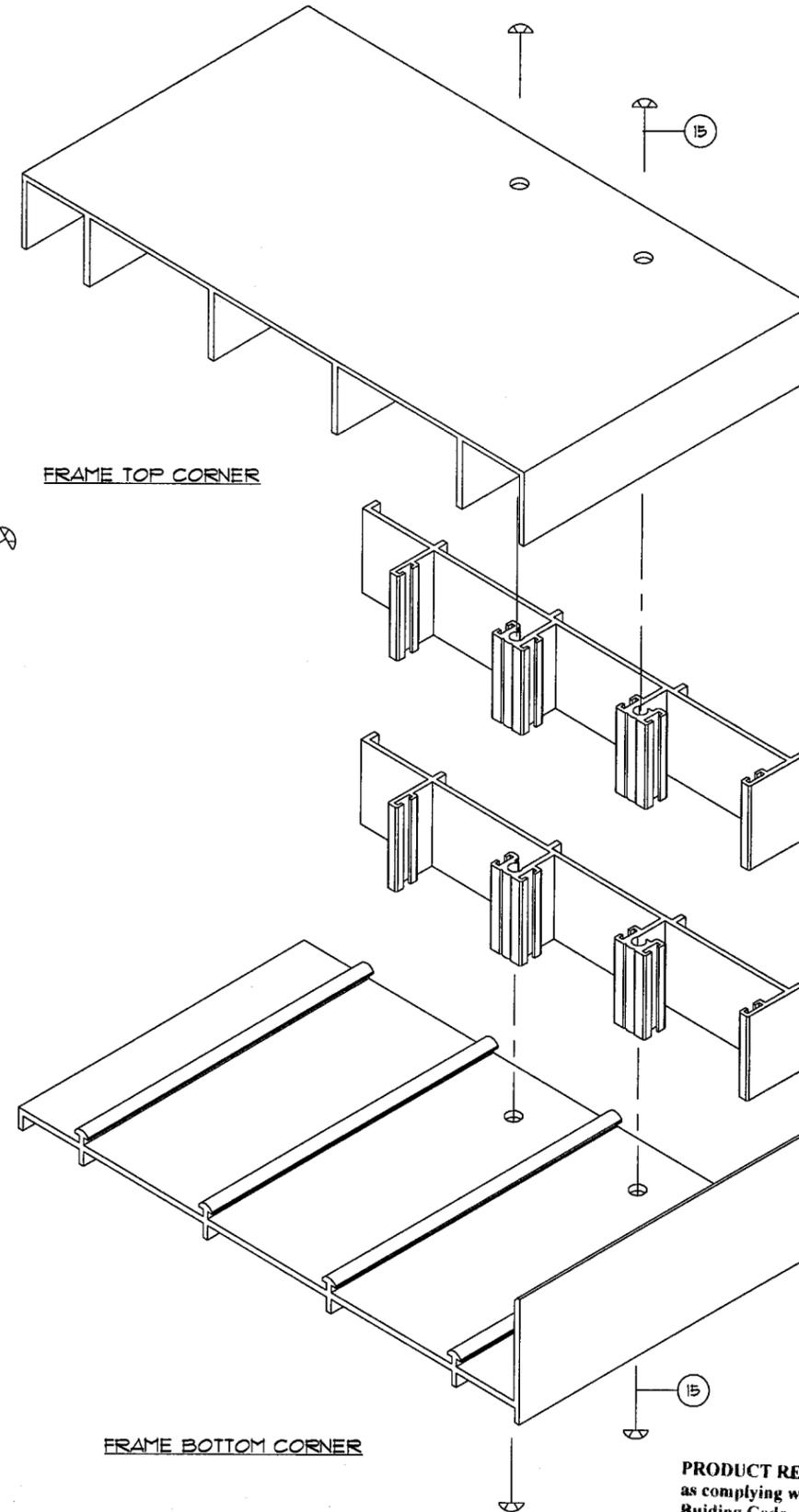
28 GLAZING ADAPTER



9 SILL RISER



2 SILL TRACK



FRAME BOTTOM CORNER

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 08-0229.03
 Expiration Date JUNE 05, 2009
 By Shay L. Chaudhary
 Miami Dade Product Control
 Division

FRANK L. BENNARDO, P.E.
 # PE0046549
 07/10/2008
EXPRESS
ENGINEERING
 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
 SERIES 3000 ALUMINUM
 SLIDING GLASS DOOR

DRWN	CHKD	DATE
ORIGINAL	CL	06/03/03
INSUL GLASS	CL	08/11/04
2004 FBC	CL	02/09/06
REMOVE 5' & 6' HEIGHTS	KL	07/10/08

04-113-0006
 SCALE: 1/8" = 1'-0"
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