



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)

BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208

Miami, Florida 33175-2474

T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/pera/

PGT Industries
1070 Technology Drive,
Nokomis, Fl. 34275

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section 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 Section (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. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 "FD-650" Outswing Aluminum French Door w/Sidelites – N.I.

APPROVAL DOCUMENT: Drawing No. 8000-12, titled "Alum. French Door & Side Lites, Non-Impact", sheets 1 through 11 of 11, dated 12/30/04, with revision D dated 10/10/11, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, 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 Section.

MISSILE IMPACT RATING: None

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, 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 # 09-1028.09 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



NOA No 11-1013.23

Expiration Date: March 24, 2015

Approval Date: November 24, 2011

Page 1

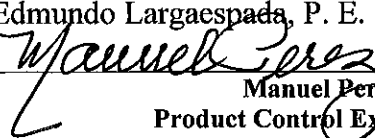
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections
2. Drawing No. **8000-12**, titled "Alum. French Door & Side Lites, Non-Impact", sheets 1 through 11 of 11, dated 12/30/04, with revision **D** dated 10/10/11, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, 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) Large Missile Impact Test per FBC, TAS 201-94,
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, Per FBC 2411 3.2.1 and TAS 202-94
along with marked-up drawings and installation diagram of aluminum doors of OXXO configuration, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4921**, dated 07/17/06, signed and sealed by Edmundo Largaespada, P. E.
(Submitted under previous NOA #09-1028.09)
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) Forced Entry Test, Per FBC 2411 3.2.1 and TAS 202-94
along with marked-up drawings and installation diagram of aluminum doors of XXXO configuration, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4450**, dated 12/14/04, signed and sealed by Edmundo Largaespada, P. E.
(Submitted under previous NOA #09-1028.09)
3. 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 marked-up drawings and installation diagram of aluminum doors of OXXX configuration, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-4451**, dated 12/14/04, signed and sealed by Edmundo Largaespada, P. E.
(Submitted under previous NOA #09-1028.09)
4. 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 marked-up drawings and installation diagram of aluminum doors of XXXO configuration, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-4452**, dated 12/14/04, signed and sealed by Edmundo Largaespada, P. E.
(Submitted under previous NOA #09-1028.09)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 11-1013.23
Expiration Date: March 24, 2015
Approval Date: November 24, 2011

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

5. Test reports on: 1) Air Infiltration Test,
2) Uniform Static Air Pressure Test,
3) Water Resistance Test,
4) Forced Entry Test, per SFBC 3603.2 (b)
along with marked-up drawings and installation diagram of an aluminum sliding glass door using a low sill threshold, glazed with 3/16" temp. glass, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5967**, dated 05/07/09, signed and sealed by Julio E. Gonzalez, P.E.
(Submitted under previous NOA #09-1028.09)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, dated 10/01/09, prepared, signed and sealed by Robert L. Clark, P.E, updated to the FBC-2010 on 10/11/11, signed and sealed by A. Lynn Miller, P.E.
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. None

F. STATEMENTS

1. Statement letter dated 10/07/11, Successor Engineer adopting the another engineer's work per FAR 61G15-27-001, signed & sealed by A. Lynn Miller, P.E.
2. Statement letter of conformance with the FBC-2007 and FBC-2010, prepared by manufacturer, dated 10/11/11, signed & sealed by A. Lynn Miller, P.E.
3. Statement letter of "No financial interest", prepared by manufacturer, dated 10/11/11, signed & sealed by Lynn Miller, P.E.
4. Letter of lab compliance, part of the above test reports.
5. Proposal No. **08-1891** issued by BCCO, dated January 26, 2009, signed by Ishaq Chanda, P.E.

G. OTHER

1. Notice of Acceptance No. **09-1028.09**, issued to PGT Industries for their Series "FD-650" Outswing Aluminum French Door w/Sidelites – N.I., approved on 02/10/10 and expiring on 03/24/15.



Manuel Perez, P.E.
Product Control Examiner
NOA No 11-1013.23

Expiration Date: March 24, 2015
Approval Date: November 24, 2011

GENERAL NOTES: OUTSWING NON-IMPACT FRENCH DOOR(S) AND SIDE LITE(S)

1. GLAZING OPTIONS:

- A. 3/16" TEMPERED GLASS
- B. 7/8" I.G. GLASS CONSISTING OF (2) LITES OF 3/16" TEMPERED GLASS WITH A 1/2" AIR SPACE.

2. DESIGN PRESSURES: (SEE TABLES 1, 2 AND 3, SHEET 2)

- ▲ A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E 1300-02.
- B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E 1300-02.

3. CONFIGURATIONS: X, O, XX, XO, OX, XXX, XXO, OXX, OXO, XXXX, XXXO, OXXX, OR OXXO WHERE O REPRESENTS EITHER THE NARROW JAMB OR FULL JAMB SIDE LITE.

- ▲ ANY TWO ADJACENT X UNITS CAN BE EITHER TWO SINGLE X DOORS OR A DOUBLE XX DOOR, BOTH USING EITHER THE STANDARD OR THE LOW-RISE SILL. THE FRENCH DOOR ASSEMBLY BEAM IS USED TO ASSEMBLE X, XX, AND O UNITS TO MAKE THE ABOVE CONFIGURATIONS.

4. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. FOR ANCHORAGE REQUIREMENTS SEE SHEETS 8 THROUGH 10.

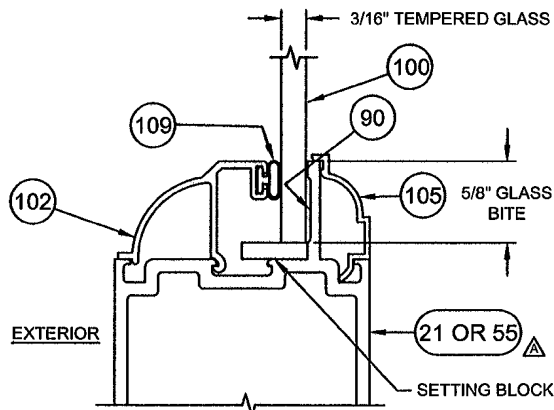
- ▲ SHUTTERS ARE REQUIRED WHERE IMPACT RESISTANCE REQUIRED. SHUTTERS MUST BE MIAMI-DADE COUNTY APPROVED FOR INSTALLATION IN MIAMI-DADE COUNTY.

6. SEALANTS: INSTALLATION SCREWS, FRAME AND PANEL CORNERS SEALED WITH CLEAR COLORED SEALANT. VERTICAL ASSEMBLY BEAM SEAMS SEALED ON THE INTERIOR AND EXTERIOR WITH CONTRACTOR SEALANT.

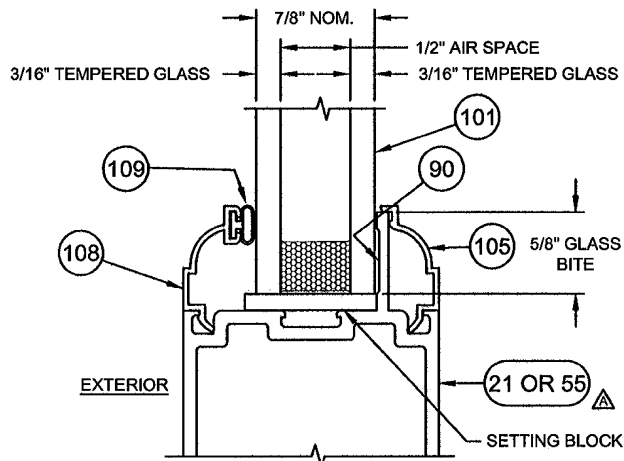
7. REFERENCES: TEST REPORTS FTL-4450, FTL-4451, FTL-4452, FTL-4921 AND FTL-5967.

- ▲ ANS/AF&PA NDS-2005 FOR WOOD CONSTRUCTION
- ADM-2005 ALUMINUM DESIGN MANUAL

8. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).



**GLAZING DETAIL
MONOLITHIC GLASS**

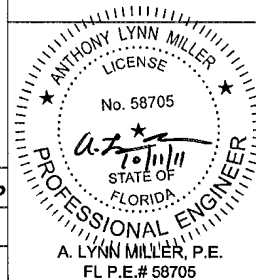


**GLAZING DETAIL
I.G. GLASS**

NOA DRAWING MAP

TOPIC	SHEET
GENERAL NOTES.....	1
CONFIGURATIONS.....	1
GLAZING DETAILS.....	1
DESIGN PRESSURES.....	2
ELEVATIONS.....	3
VERT. SECTIONS.....	4
HORIZ. SECTIONS.....	5
PARTS LIST.....	6
EXTRUSIONS.....	7-8
ANCHORAGE.....	9-11

PRODUCT REVISED
to comply with the Florida
Building Code
Amendment No. 11-1013.23
Expiration Date March 24, 2015
By *Manuel Arg*
Miami Dade Product Council



Revised By: F.K.	Date: 10/18/08	Revisions: B	UPDATED BUILDING CODE AND DESIGN MANUAL YEARS. ADDED TEST REPORT.
Revised By: J.R.	Date: 09/22/09	Revisions: C	NO CHANGES THIS SHEET.
Revised By: J.L.	Date: 10/10/11	Revisions: D	FBC 2010 CODE CHANGE
Drawn By: F.K.	Date: 12/30/04	Checked By:	

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274



Description:	GENERAL NOTES, GLAZING DETAILS AND MAP			
Title:	ALUM. FRENCH DOOR & SIDE LITES, NON-IMPACT			
Series/Model:	FD550	Scale:	FULL	Sheet:
				1 of 11
Drawing No:	8000-12	Rev:	D	

TABLE 1. COMPARATIVE ANALYSIS: OUTSWING DOORS

CONFIG.	GLASS A. 3/16" TEMPERED GLASS						
	OPTIONS: B. 7/8" I.G. (3/16"T, AIR SPACE, 3/16"T)						
	DOOR WIDTH	DOOR HEIGHT					
		6 ⁸ - 79 3/4"	7 ⁰ - 83 3/4"	87 3/4"	91 3/4"	8 ⁰ - 95 3/4"	
X 2 ⁰	25"	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -139.5	
X	27"	+100.0 -145.0	+100.0 -145.0	+100.0 -144.2	+100.0 -136.9	+100.0 -130.3	
X	29"	+100.0 -145.0	+100.0 -143.4	+100.0 -135.7	+100.0 -128.7	+100.0 -122.4	
X 2 ⁶	31"	+100.0 -144.2	+100.0 -135.8	+100.0 -128.3	+100.0 -121.6	+100.0 -115.6	
X 2 ⁸	33"	+100.0 -126.7	+100.0 -126.7	+100.0 -122.0	+100.0 -115.5	+100.0 -109.7	
X	35"	+100.0 -112.2	+100.0 -112.2	+100.0 -112.2	+100.0 -110.2	+100.0 -104.6	
X 3 ⁰	37"	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0	
XX 4 ⁰	47 3/4"	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -139.5	
XX	51 3/4"	+100.0 -145.0	+100.0 -145.0	+100.0 -144.2	+100.0 -136.9	+100.0 -130.3	
XX	55 3/4"	+100.0 -145.0	+100.0 -143.4	+100.0 -135.7	+100.0 -128.7	+100.0 -122.4	
XX 5 ⁰	59 3/4"	+100.0 -144.2	+100.0 -135.8	+100.0 -128.3	+100.0 -121.6	+100.0 -115.6	
XX 5 ⁴	63 3/4"	+100.0 -126.7	+100.0 -126.7	+100.0 -122.0	+100.0 -115.5	+100.0 -109.7	
XX	67 3/4"	+100.0 -112.2	+100.0 -112.2	+100.0 -112.2	+100.0 -110.2	+100.0 -104.6	
XX 6 ⁰	71 3/4"	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0	

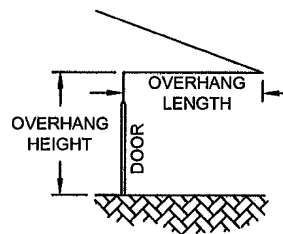
TABLE 2. COMPARATIVE ANALYSIS: FULL JAMB SIDE LITE

GLASS A. 3/16" TEMPERED GLASS						
OPTIONS: C. 7/8" I.G. (3/16"T, AIR SPACE, 3/16"T)						
SIDE LITE	SIDE LITE HEIGHT					
WIDTH	6 ⁸ - 79 3/4"	7 ⁰ - 83 3/4"	87 3/4"	91 3/4"	8 ⁰ - 95 3/4"	
21 11/16"	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	
24 11/16"	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -144.9	+100.0 -137.9	
30 11/16"	+100.0 -142.9	+100.0 -135.3	+100.0 -127.8	+100.0 -121.1	+100.0 -115.1	
33 11/16"	+100.0 -118.6	+100.0 -118.6	+100.0 -118.6	+100.0 -112.5	+100.0 -106.8	
36 11/16"	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0	

NOTE: REFERENCE TEST REPORTS FTL4450, FTL-4451, FTL-4452, FTL-4921 AND FTL 5967. 

TABLE 3. COMPARATIVE ANALYSIS: NARROW JAMB SIDE LITE

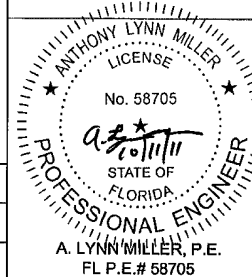
GLASS A. TEMPERED GLASS						
OPTIONS: B. 7/8" I.G. (3/16"T, AIR SPACE, 3/16"T)						
SIDE LITE	SIDE LITE HEIGHT					
WIDTH	6 ⁸ - 79 3/4"	7 ⁰ - 83 3/4"	87 3/4"	91 3/4"	8 ⁰ - 95 3/4"	
10 11/16"	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	
13 11/16"	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	
16 11/16"	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	
19 11/16"	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	
21 11/16"	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	
24 11/16"	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -144.9	+100.0 -137.9	
30 11/16"	+100.0 -142.9	+100.0 -135.3	+100.0 -127.8	+100.0 -121.1	+100.0 -115.1	
33 11/16"	+100.0 -118.6	+100.0 -118.6	+100.0 -118.6	+100.0 -112.5	+100.0 -106.8	
36 11/16"	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0	



NOTES:

1. IF USING THE OPTIONAL LOW-RISE SILL (PART 10, SHEET 7 OF 11), THE OVERHANG HEIGHT MUST BE GREATER THAN THE OVERHANG LENGTH (SEE DIAGRAM). IF NOT, THE MAXIMUM POSITIVE (+) DESIGN PRESSURE IS LIMITED TO +50.0 PSF FOR ALL STYLES AND SIZES OF THE DOOR AND ANY ADJOINING SIDELITES.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1013.23
Expiration Date March 23, 2015
By *Manuel Miller*
French Door Product Control



Revised By: J.R.	Date: 09/22/09	Revisions: B	ADDED NOTE/DIAGRAM FOR LOW SILL OPTION, ADDED TEST REPORT #.
Revised By: J.R.	Date: 01/25/10	Revisions: C	NO CHANGES THIS SHEET.
Revised By: J.L.	Date: 10/10/11	Revisions: D	NO CHANGES THIS SHEET.
Drawn By: F.K.	Date: 12/30/04	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274



Description:

DESIGN PRESSURES

Title:

ALUM. FRENCH DOOR & SIDE LITES, NON-IMPACT

Series/Model:

FD650

Bode:

NA

Sheet:

2 of 11

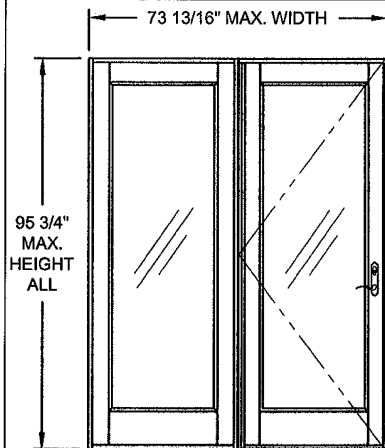
Drawing No.

8000-12

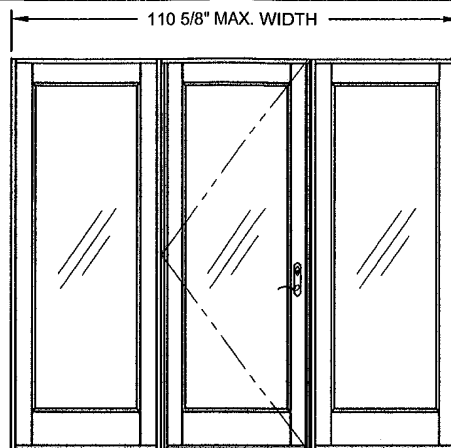
Rev:

D

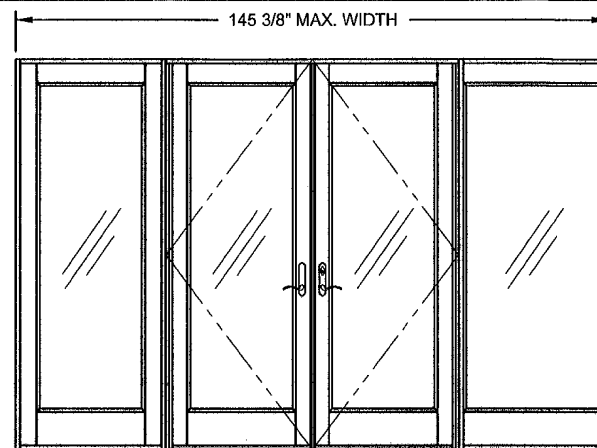
A. LYNN MILLER, P.E.
FL P.E.# 58705



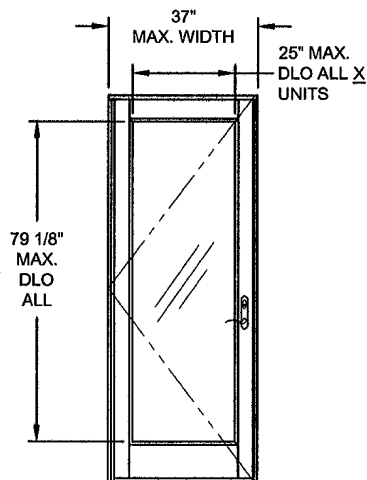
OX OR XO



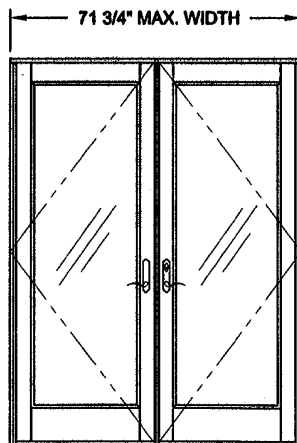
OXO



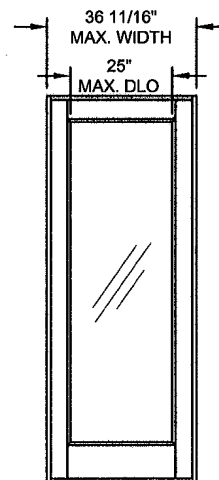
OXO (SHOWING EACH VERSION SIDELITE)



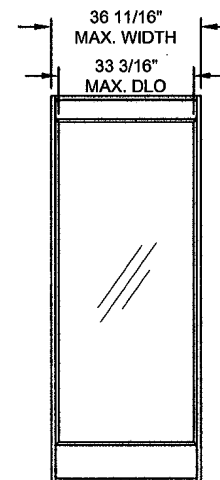
X



XX



O (FULL JAMB)



O (NARROW JAMB)

NOTES:

1. CONFIGURATIONS WITH SIDE LITES CAN BE EITHER NARROW JAMB OR FULL JAMB VERSIONS.
2. FOR ANCHOR SPACING AND DETAILS, SEE SHEETS 8 THROUGH 10.
3. FOR VERTICAL SECTIONS SEE SHEET 4 AND FOR HORIZONTAL SECTIONS SEE SHEET 5.

Revised By: J.R.	Date: 09/22/09	Revisions: B	NO CHANGE THIS SHEET
Revised By: J.R.	Date: 01/25/10	Revisions: C	NO CHANGES THIS SHEET.
Revised By: J.J.	Date: 10/10/11	Revisions: D	NO CHANGES THIS SHEET.
Drawn By: F.K.	Date: 12/30/04	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274



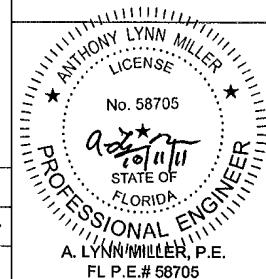
Description:

EXAMPLE ELEVATIONS

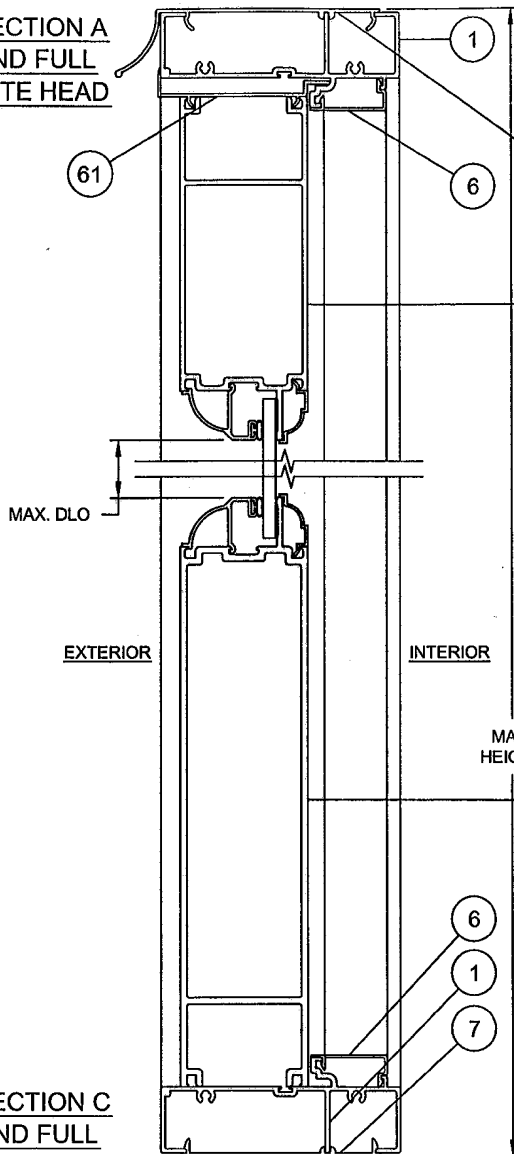
ALUM. FRENCH DOOR & SIDE LITES, NON-IMPACT

Series/Model: FD650	Scale: NTS	Sheet: 3 of 11	Drawing No. 8000-12	Rev: D
---------------------	------------	----------------	---------------------	--------

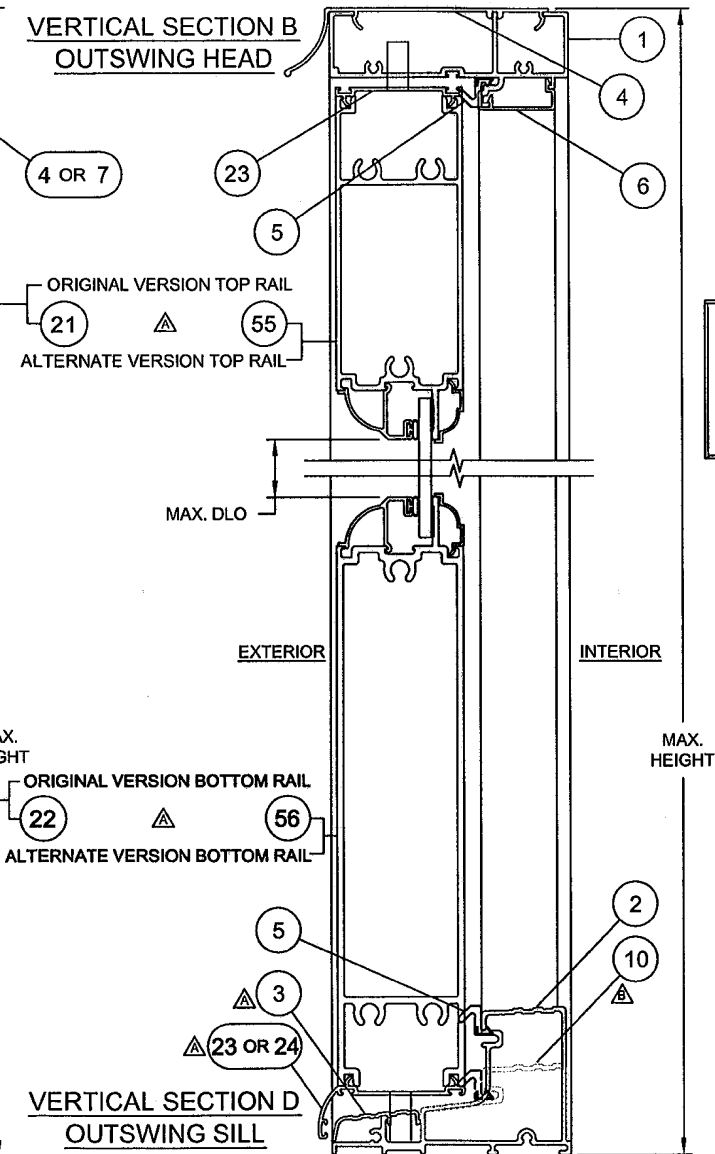
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1013.23
Expiration Date March 24, 2015
By: *Anthony Lynn Miller*
Seal: *Anthony Lynn Miller*



**VERTICAL SECTION A
NARROW AND FULL
JAMB SIDE LITE HEAD**



**VERTICAL SECTION B
OUTSWING HEAD**



**VERTICAL SECTION C
NARROW AND FULL
JAMB SIDE LITE SILL**

Revised By:	Date:	Revisions:
J.R.	06/22/09	B
J.R.	01/26/10	C
J.J.	10/10/11	D
F.K.	12/30/04	

ADDED LOW RISE SILL.
NO CHANGES THIS SHEET.
NO CHANGES THIS SHEET.

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

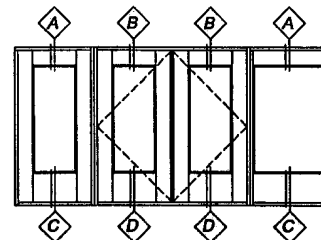


Description:

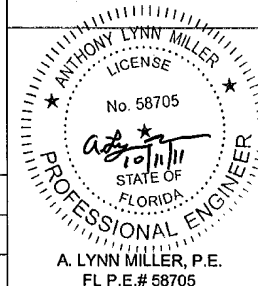
VERTICAL SECTIONS

ALUM. FRENCH DOOR & SIDE LITES, NON-IMPACT

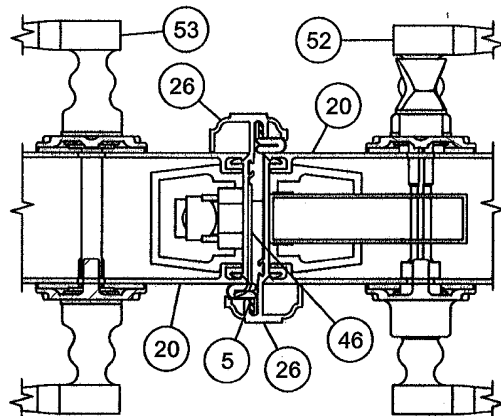
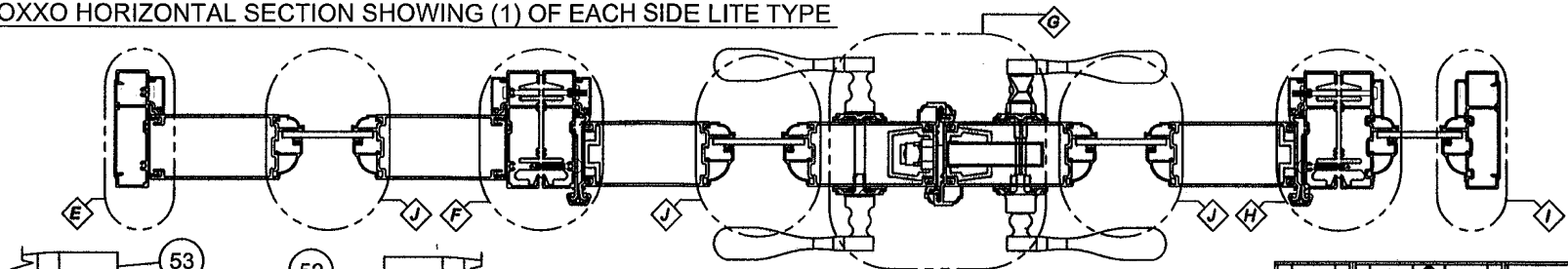
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
FD650	1/2	4 of 11	8000-12	D



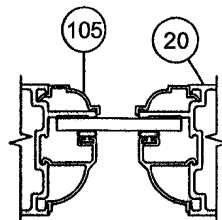
PRODUCT REVISED
as complying with the Florida
Building Code
Amendment No. 11-1013.23
Expiration Date March 24, 2015
By: *Maureen Carr*
National Trade Product Control



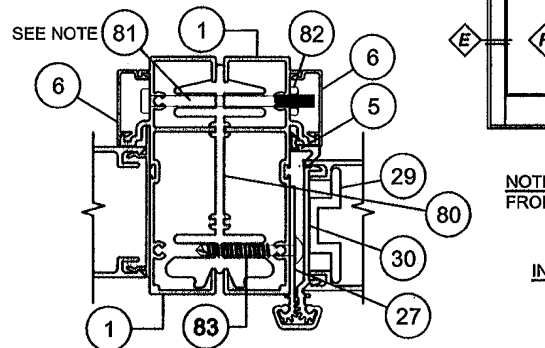
OXXO HORIZONTAL SECTION SHOWING (1) OF EACH SIDE LITE TYPE



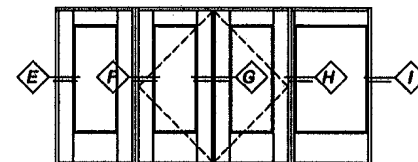
DETAIL G STILES AT ASTRAGAL



DETAIL J
SLAB AT
GLASS BED

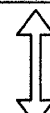


DETAIL F
FULL JAMB SIDE LITE
(AT HINGE JAMB)



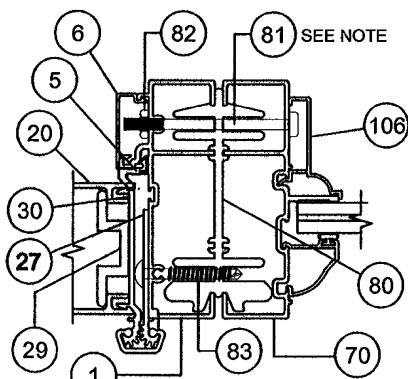
NOTE: ASSEMBLY HARDWARE QTY (3), 11" FROM TOP & BOTTOM AND ONE AT MIDSPAN

INTERIOR

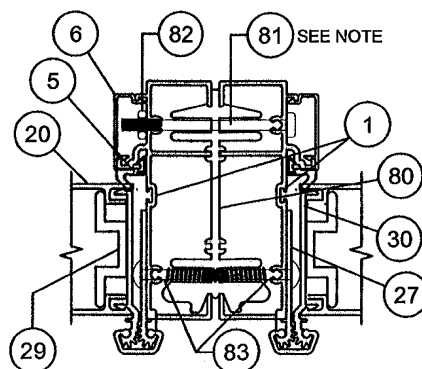


EXTERIOR

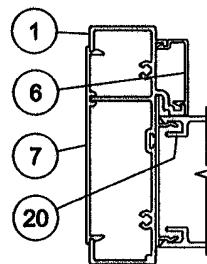
PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 11-1013-23
Expiration Date March 28, 2015
By *Michael J. G...*
Miami Dade Product Control



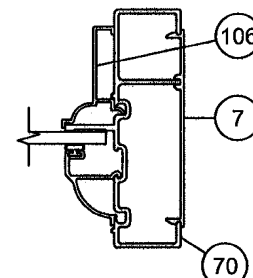
DETAIL H
NARROW JAMB SIDE LITE
(AT HINGE JAMB)



DETAIL K
HINGE JAMB TO HINGE JAMB
(NOT SHOWN ABOVE)



DETAIL E
JAMB, FULL JAMB
SIDE LITE



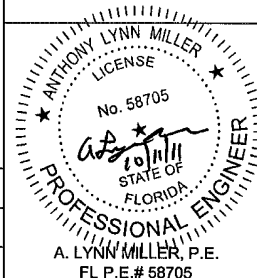
DETAIL I
JAMB, NARROW
JAMB SIDE LITE

Revised By: J.R.	Date: 09/22/09	Revisions: B	NO CHANGE THIS SHEET
Revised By: J.R.	Date: 01/25/10	Revisions: C	NO CHANGES THIS SHEET.
Revised By: J.J.	Date: 10/10/11	Revisions: D	NO CHANGES THIS SHEET.
Drawn By: F.K.	Date: 12/30/04	Checked By:	

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274



Description: HORIZONTAL SECTION DETAILS			
Title: ALUM. FRENCH DOOR & SIDE LITES, NON-IMPACT			
Series/Model: FD650	Scale: 1/2	Sheet: 5 of 11	Drawing No.: 8000-12
Rev:			D



FD650 DOOR(S)

ITEM	DWG#	DESCRIPTION	PGT#
FRAME KIT PARTS			
1	8006	FRAME - HEAD & HINGE JAMB	68006
2	8003A	OUT-SWING SILL	68003A
3	8004C	OUT-SWING SILL COVER	68004C
4	8008	DRIP CAP	68008
5	8007	HEAD, SILL & JAMB WEATHERSTRIP (SCHLEGAL)	U83337T8500
6	8007	SCREW COVER	68007
7	8009	INSTALL PLATE	68009
8	8009	FRAME ASSEMBLY SCREW #8 X 1" PH QUAD	781PQA
9	8032	ASTRAGAL END SEAL	48032
10	8058	OUT-SWING SILL (LOW RISE)	48058
DOOR PANEL			
5	8012	HEAD, SILL & JAMB WEATHERSTRIP (SCHLEGAL)	U83337T8500
20	8012	STILE	68012
21	8014	TOP RAIL, (THREADED ROD DESIGN)	68014
22	8013	BOTTOM RAIL, (THREADED ROD DESIGN)	68013
23	8017	TOP SWEEP	68017
24	8016	BOTTOM SWEEP	68016
25	8015	SWEEP SCREWS, #4 X 1/2" PHIL PH	68015
26	8015	ASTRAGAL, ACTIVE & INACTIVE	68015
27	8021B	GEAR HINGE, JAMB SIDE	68021B
28	8020A	GEAR HINGE, COVER	68020A
29	8018	GEAR HINGE, BACK-UP PLATE	68018
30	8019A	GEAR HINGE, DOOR SIDE	68019A
31	8035	GEAR HINGE, BEARING	68035
32	8035	GEAR HINGE, SET-SCREW #6-32 x 1/4"	68035
33	8035	GEAR HINGE, MTG. SCREW #12 x 3/4" TRUSS HD.	68035
34	8035	GEAR HINGE, MTG. SCREW #12 x 1 1/2" TRUSS HD.	68035
35	8035	THREADED ROD 5/16-18 X 36"	68035
36	8035	FLANGED HEX NUT 5/16-18	68035
37	8039	TRUSS CLAMP	68039
38	8043	S/S GEAR LATCH MECHANISM (ASHLAND)	68043
39	8030	LOCK BLOCK	48030
40	8037	LATCH ASSY SCREWS #8 X 2" SS PHILL TR HD	78X2TPAX
41	8037	S/S SHOOT BOLT ROD (SULLIVAN)	78X12PFXH
42	8045	STANDARD FLUSH BOLTS W/ SS ROD (SULLIVAN)	78X12PFXH
43	8031	SHOOT BOLT GUIDE	48031
44	8038R	SHOOT BOLT GUIDE & STRIKE SCREW 8-32 X 3/8" SS PHILL TR HD	78X38PFTX
45	8038R	RIGHT - STRIKE PLATE AT ASTRAGAL (ACTIVE HINGED LEFT)	W5110-43S1
46	8038L	LEFT - STRIKE PLATE AT ASTRAGAL (ACTIVE HINGED RIGHT)	W5110-44S1
47	8038R	STRIKE PLATE SCREWS 8-32 X 3/8" SS PHILL TR HD	78X38PFTX
48	8038R	STRIKE PLATE MIDDLE SCREW 6-24 X 1/2" FH	7612PFTX
49	8036	STRIKE PLATE AT HEAD & SILL	7858ZAX
50	8041	HEAD STRIKE SCREWS SS 8 X 1/2 PHILL FH	78X12PFXH
51	8041	STRIKE PLATE SCREWS @SILL SS 8 X 1/2 PHILL UNDERCUT FH	78X12PFXH
52	8041	ACTIVE TRIM SET (ASHLAND)	68014A
53	8042	PASSIVE TRIM SET (ASHLAND)	68013A
54	8044	STAINLESS STEEL PASSIVE LOCK GEAR (ASHLAND)	68014A
55	8014A	TOP RAIL (LAG BOLT DESIGN)	68013A
56	8013A	BOTTOM RAIL (LAG BOLT DESIGN)	68013A

Revised By: F.K.	Date: 10/18/06	Revisions: B	ADDED LOW RISE SILL
Revised By: J.R.	Date: 09/22/09	Revisions: C	NO CHANGES THIS SHEET.
Revised By: J.J.	Date: 10/10/11	Revisions: D	NO CHANGES THIS SHEET.
Drawn By: F.K.	Date: 12/30/04	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34276
P.O. BOX 1829
NOKOMIS, FL 34274



Description:

PARTS LIST

Title:

ALUM. FRENCH DOOR & SIDE LITES, NON-IMPACT

Series/Model:

FD650

Scale:

NA

Sheet:

6

Drawing No.

8000-12

Rev:

D

FD650 FULL JAMB SIDE LITE

ITEM	DWG#	DESCRIPTION	PGT#
1	8006	FRAME - HEAD, SILL & JAMB	68006
4	8008	DRIP CAP	68008
6	8007	SCREW COVER	68007
7	8009	INSTALL PLATE	68009
8	8009	FRAME ASSEMBLY SCREW #8 X 1" PH QUAD	781PQA
20	8012	STILE	68012
21	8014	TOP RAIL	68014
22	8013	BOTTOM RAIL	68013
35	8013	THREADED ROD 5/16-18 X 36"	68013
36	8013	FLANGED HEX NUT 5/16-18	68013
37	8039	TRUSS CLAMP	68039
60	8039	#8 X 3/4" PH SQ DRIVE TEK SCREW	78X34PSTW
61	8028	SIDE LITE HEAD TRIM	68028
62	8029	SIDE LITE JAMB TRIM	68029

FD650 NARROW JAMB SIDE LITE

1	8006	FRAME - HEAD & SILL	68006
4	8008	DRIP CAP	68008
6	8007	SCREW COVER	68007
7	8009	INSTALL PLATE	68009
8	8009	FRAME ASSEMBLY SCREW #8 X 1" PH QUAD	781PQA
21	8014	TOP RAIL	68014
22	8013	BOTTOM RAIL	68013
35	8013	THREADED ROD 5/16-18 X 36"	68013
36	8013	FLANGED HEX NUT 5/16-18	68013
37	8039	TRUSS CLAMP	68039
60	8039	#8 X 3/4" PH SQ DRIVE TEK SCREW	78X34PSTW
61	8028	SIDE LITE HEAD TRIM	68028
70	8010	FRAME, JAMB	68010

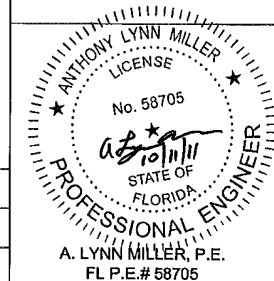
ASSEMBLY KIT

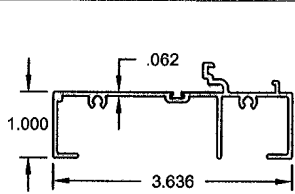
80	8033B	FRENCH DOOR ASSEMBLY BEAM	68033B
81	8033B	#10-24 X 2 1/2" PH SCREW	68033B
82	8033B	#10-24 HEX NUT	68033B
83	8033B	#12 X 1 1/2" TR HD TEK SCREW	68033B
84	8056	SUBSILL (OPTIONAL)	68056

GLASS, BEADS & SILICONE

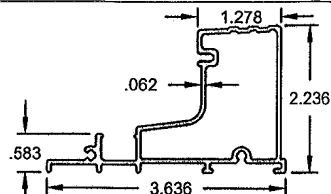
90	8025	GLAZING SEALANT, DOW CORNING 899, 983, 995 OR EQUIVALENT	68025
100	8025	3/16" TEMPERED GLASS	68025
101	8025	7/8" I.G. GLASS (3/16" T, 1/2" AIR SPACE, 3/16" T)	68025
102	8025	3/16" BEAD	68025
105	8022	BACK BEAD	68022
106	8026A	SL BACK BEAD	68026A
108	8024A	7/8" IG BEAD	68024A
109	1224	VINYL BULB WSTP (THICK)	61P247

PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 11-1013-23
Expiration Date March 23, 2015
By: *Mauro P. Miller*
Initial/Date Product Control





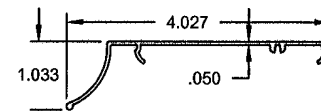
① #8006 6063-T6
FRAME, HEAD, JAMB
AND SIDELITE SILL



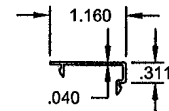
② #8003A 6063-T6
OUT-SWING SILL



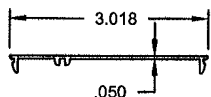
③ #8004C 6063-T5 ▲
OS SILL COVER



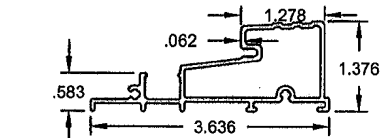
④ #8008 6063-T5
DRIP CAP



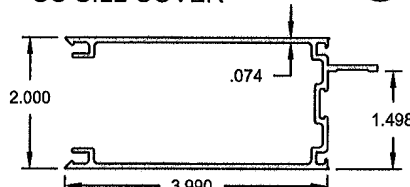
⑥ #8007 6063-T6
SCREW COVER



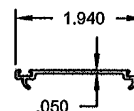
⑦ #8009 6063-T5
INSTALL PLATE



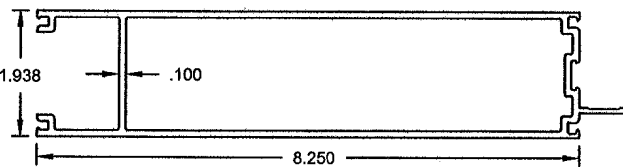
▲ ⑩ #8056 6063-T6
OUT-SWING LOW SILL



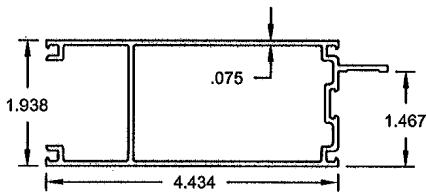
⑫ #8012 6063-T6
STILE



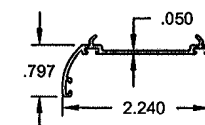
⑬ #8017 6063-T5
TOP SWEEP



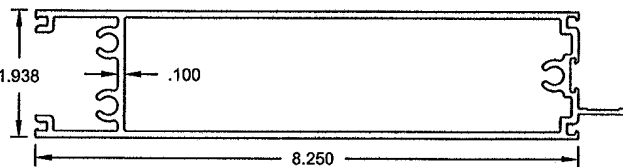
⑭ #8013 6063-T6
BOTTOM RAIL



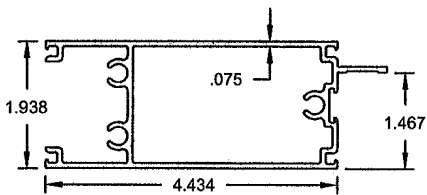
⑮ #8014 6063-T5
TOP RAIL



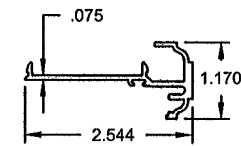
⑯ #8016 6063-T5
BOTTOM SWEEP



⑰ #8013A 6063-T6
BOTTOM RAIL, LAG BOLT DESIGN

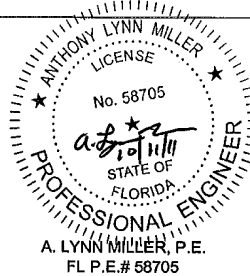


⑱ #8014A 6063-T5
TOP RAIL, LAG BOLT DESIGN



⑲ #8015 6063-T6
ASTRAGAL

PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 11-1013.23
Expiration Date March 24, 2015
By *Manuel Sora*
Product Control

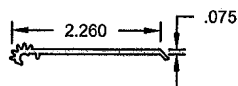


Revised By: J.R.	Date: 09/22/09	Revision: B	ADDED LOW RISE SILL AND SECOND EXTRUSION SHEET.
Revised By: J.R.	Date: 01/25/10	Revision: C	NO CHANGES THIS SHEET.
Revised By: J.J.	Date: 10/10/11	Revision: D	NO CHANGES THIS SHEET.
Drawn By: F.K.	Date: 12/30/04	Checked By:	Date:

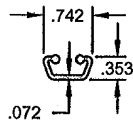
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34276
P.O. BOX 1629
NOKOMIS, FL 34274



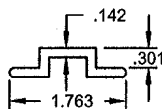
Description: EXTRUSION PROFILES			
Title: ALUM. FRENCH DOOR & SIDE LITES, NON-IMPACT			
Series/Model: FD650	Scale: 1/2	Sheet: 7 of 11	Drawing No. 8000-12
			Rev: D



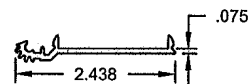
27 #8021B 6063-T6
GEAR HINGE, JAMB



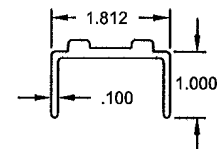
28 #8020A 6063-T6
GEAR HINGE, COVER



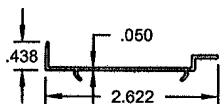
29 #8018 6063-T5
HINGE, BACK-UP



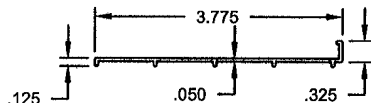
30 #8019A 6063-T6
GEAR HINGE, DOOR



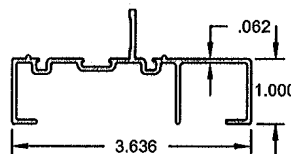
37 #8039 6063-T6
TRUSS CLAMP



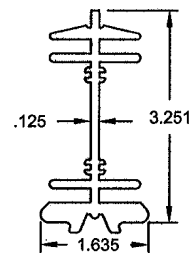
61 #8028 6063-T5
SL HEAD TRIM



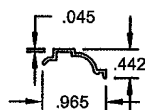
84 #8056 6063-T4
SUBSILL, OPTIONAL



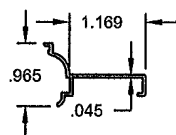
70 #8010 6063-T6
NARROW SL JAMB



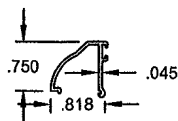
80 #8033B 6105-T5
FD ASS'Y BEAM



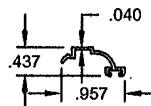
105 #8022 6063-T5
BACKBEAD



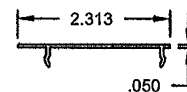
106 #8026A 6063-T5
SL BACKBEAD



107 #8023A 6063-T5
7/16" BEAD



108 #8024A 6063-T5
I.G. BEAD



62 #8029 6063-T5
SL JAMB TRIM

PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 11-1013-23
Expiration Date March 24, 2015
By *Anthony Lynn Miller*
Professional Engineer

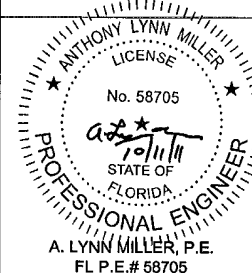
Revised By: J.R.	Date: 09/22/09	Revisions: B	NEW PAGE
Revised By: J.R.	Date: 01/26/10	Revisions: C	NO CHANGES THIS SHEET.
Revised By: J.J.	Date: 10/10/11	Revisions: D	NO CHANGES THIS SHEET.
Drawn By: F.K.	Date: 12/30/04	Checked By:	Date:

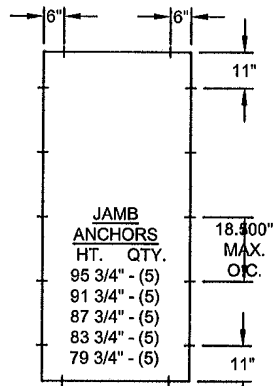
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274



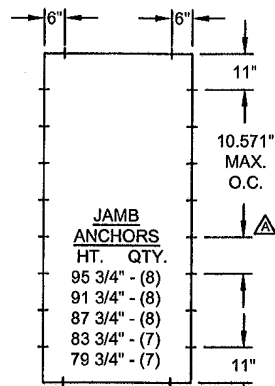
EXTRUSION PROFILES (CONT.)

Title: ALUM. FRENCH DOOR & SIDE LITES, NON-IMPACT	Series/Model: FD650	Scale: 1/2"	Sheet: 8 of 11	Drawing No. 8000-12	Rev: D
--	------------------------	----------------	-------------------	------------------------	-----------

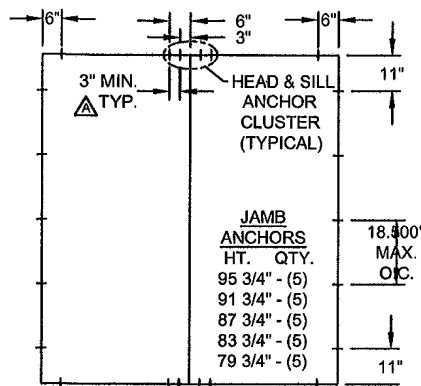




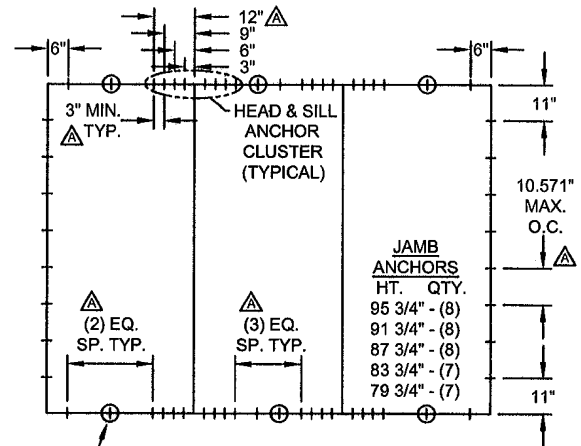
DETAIL A (CONCRETE)
ANCHOR TYPES:
1 OR 2



DETAIL B (WOOD)
ANCHOR TYPES:
2 OR 3



DETAIL C (CONCRETE)
ANCHOR TYPES:
1 OR 2



DETAIL D (WOOD)
ANCHOR TYPES:
2 OR 3

SEE NOTE 5
 REGARDING
 APPLICABILITY
 OF ENCIRCLED
 ANCHOR
 LOCATIONS

ANCHORAGE SPACING REQUIREMENTS:

1. DETAILS A AND B ABOVE REPRESENT ANCHORING OF SINGLE X DOORS, OR INDIVIDUAL SIDE LITE O PANELS WITH FULL OR NARROW WIDTH JAMBS. DETAILS C AND D ABOVE REPRESENT ANCHORING OF ANY MIXTURE OF DOUBLE XX DOORS, SINGLE X DOORS, NARROW JAMB OR FULL JAMB SIDE LITE PANELS, FOR MULTIPLE-PANEL INSTALLATIONS OF TWO OR MORE PANELS. UNLESS OTHERWISE STATED, DIMENSIONS OF DETAILS A THROUGH D ARE MAXIMUMS.

2. ANCHOR TYPES: 1 - 1/4" ELCO ULTRACON 2 - 1/4" ELCO SS4 CRETE-FLEX 3 - #12 STEEL SCREW (G5)

CONCRETE SUBSTRATE USE TYPE 1 AT 1 3/8" MIN. EMBEDMENT OR TYPE 2 AT 1 3/4" EMBEDMENT. 1 3/4" MIN. EDGE DISTANCE FOR BOTH. WOOD SUBSTRATE - USE TYPE 2 OR TYPE 3 AT 1 3/8" MIN. EMBEDMENT.

3. SINGLE PANEL CONFIGURATIONS: (DETAIL A, CONCRETE SUBSTRATE. DETAIL B, WOOD SUBSTRATE)

HEAD AND SILL.....6" MAX. FROM FRAME CORNERS.

JAMBS.....11" MAX. FROM FRAME CORNERS, 18.500" MAX. O.C. CONCRETE SUBSTRATE (DETAIL A) AND 10.571" MAX. O.C. WOOD SUBSTRATE (DETAIL B).

4. TWO OR MORE PANEL CONFIGURATIONS: (DETAIL C, CONCRETE SUBSTRATE)

HEAD AND SILL.....6" MAX. FROM FRAME CORNERS, AND AT 3" AND 6" MAX. ON EACH SIDE OF ASSEMBLY BEAM AND/OR ASTRAGAL LOCATIONS (CLUSTER OF 4).

JAMBS.....11" MAX. FROM FRAME CORNERS AND 18.500" MAX. O.C.

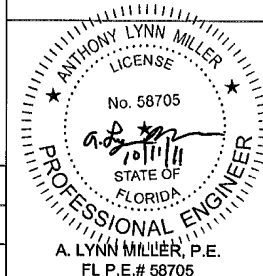
5. TWO OR MORE PANEL CONFIGURATIONS: (DETAIL D, WOOD SUBSTRATE)

HEAD AND SILL.....6" MAX. FROM FRAME CORNERS, AND AT 3", 6", 9" AND 12" MAX. ON EACH SIDE OF ASSEMBLY BEAM AND/OR ASTRAGAL LOCATIONS (CLUSTER OF 8).

PLUS ENCIRCLED ANCHORS OUTSIDE CLUSTERS, REQUIRED ONLY ON PANEL WIDTHS OVER 27 3/4".

JAMBS.....11" MAX. FROM FRAME CORNERS AND 10.571" MAX. O.C.

PRODUCT REVISED
 no complying with the Florida
 Building Code
 Acceptance No. 11-101323
 Expiration Date March 24, 2015
 By: *Manuel Jara*
 Licensed Trade Professional

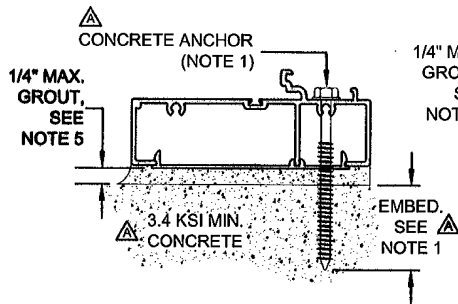


Revised By:	Date:	Revision:	NO CHANGES THIS SHEET.
J.R.	09/22/09	B	
Revised By:	Date:	Revision:	CHANGED "TAPCON" TO "ULTRACON".
J.R.	01/25/10	C	
Revised By:	Date:	Revision:	NO CHANGES THIS SHEET.
J.J.	10/10/11	D	
Drawn By:	Date:	Checked By:	
F.K.	12/30/04		

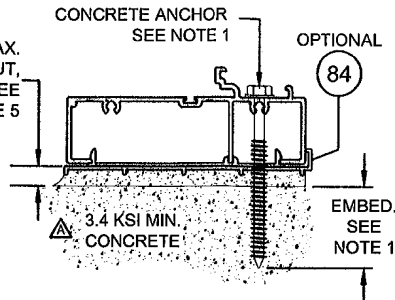
1070 TECHNOLOGY DRIVE
 NOKOMIS, FL 34275
 P.O. BOX 1529
 NOKOMIS, FL 34274



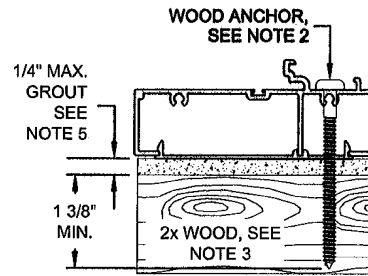
Description: ANCHORAGE SPACING			
Title: ALUM. FRENCH DOOR & SIDE LITES, NON-IMPACT			
Series/Model: FD650	Scale: NTS	Sheet: 9 of 11	Drawing No.: 8000-12
Rev: D			



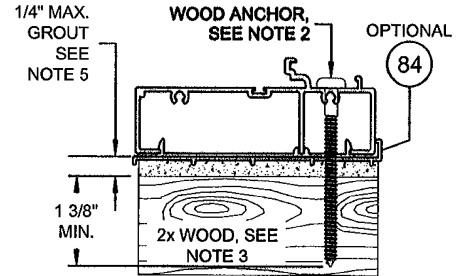
**TYPICAL SIDE LITE SILL
(DIRECT TO CONCRETE)**



**OPTIONAL SIDE LITE SILL
(SUBSILL TO CONCRETE)**

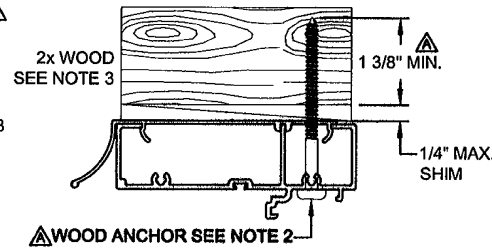
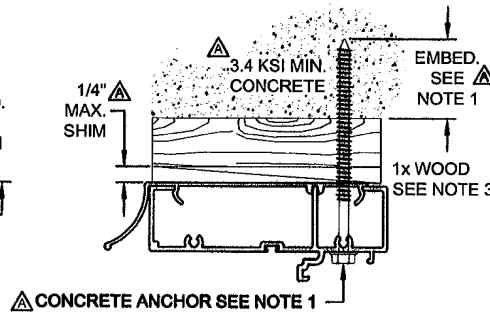
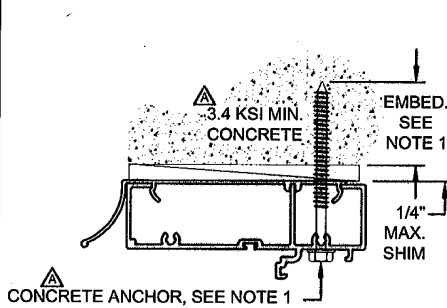


**TYPICAL SIDE LITE SILL
(DIRECT TO WOOD)**



**OPTIONAL SIDE LITE SILL
(SUBSILL TO WOOD)**

← **EXTERIOR** **INTERIOR** →
(ALL HEAD & SILL SECTIONS)



TYPICAL DOOR & SIDE LITE HEAD



NOTES:

1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ELCO 1/4" ULTRACONS OR 1/4" SS4 CRETE-FLEX. MIN. DISTANCE FROM ANCHOR TO CONCRETE EDGE IS 1 3/4". MIN. EMBEDMENT: 1/4" ULTRAICON - 1 3/8", 1/4" SS4 CRETE-FLEX - 1 3/4".
2. FOR WOOD APPLICATIONS USE #12 STEEL SCREWS (G5) OR ELCO 1/4" SS4 CRETE-FLEX - 1 3/8" MIN. EMBEDMENT FOR EITHER.
3. WOOD BUCKS DEPICTED AS 1x ARE LESS THAN 1 1/2" THICK. 1x WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE. WOOD BUCKS DEPICTED AS 2x ARE 1 1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ).
4. FOR ATTACHMENT TO ALUM: THE MAT'L SHALL BE A MIN. STRENGTH OF 6063-T5 AND A MIN. OF 1/8" THICK. THE ALUM. STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE DOOR FRAME SIMILAR TO THAT SHOWN IN THE DETAILS ON THIS SHEET FOR 2x WOOD BUCKS. THE ANCHOR SHALL BE A #12 SMS WITH FULL ENGAGEMENT INTO THE ALUM. IF THESE CRITERIA ARE MET, THE PRESSURES SHOWN ON SHEET 3 AND ANCHORAGE SPACING FOR WOOD SHOWN ON SHEET 9 MAY BE USED.
5. IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, 3400 PSI MIN., (DONE BY OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE.

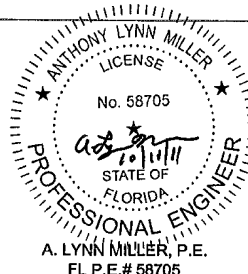
Revised By:	Date:	Revisions:	
J.R.	09/22/09	B	ADDED SIDELITE SILL DETAIL. REORGANIZED DETAILS.
J.R.	01/25/10	C	CHANGED "TAPCON" TO "ULTRAICON".
J.J.	10/10/11	D	NO CHANGES THIS SHEET.
Drawn By:	Date:	Checked By:	Date:
F.K.	12/30/04		

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34276
P.O. BOX 1529
NOKOMIS, FL 34274

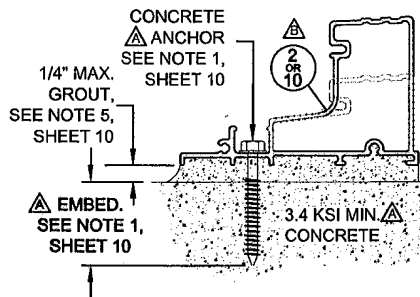


Description:			
ANCHORAGE DETAILS			
Title:			
ALUM. FRENCH DOOR & SIDE LITES, NON-IMPACT			
Series/Model:	Scale:	Sheet:	Drawing No.
FD650	1/2	10 of 11	8000-12
Rev:	D		

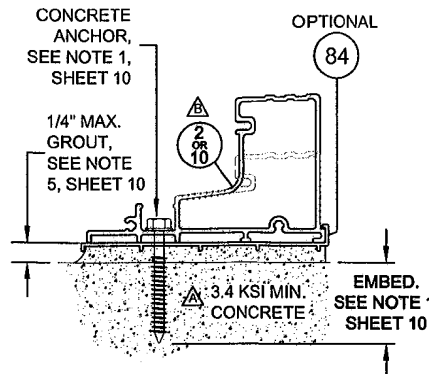
PRODUCT REVISED
in compliance with the Florida
Building Code
Assurance No. 11-1013-23
Expiration Date March 24, 2015
Manuel Perez
National Trade Product Council



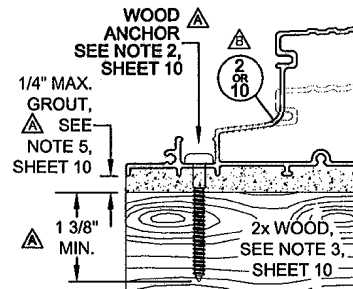
← EXTERIOR INTERIOR →
(ALL SILL SECTIONS)



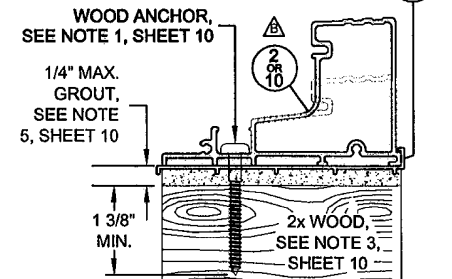
**TYPICAL DOOR SILL
(DIRECT TO CONCRETE)**



**OPTIONAL DOOR SILL
(SUBSILL TO CONCRETE)**

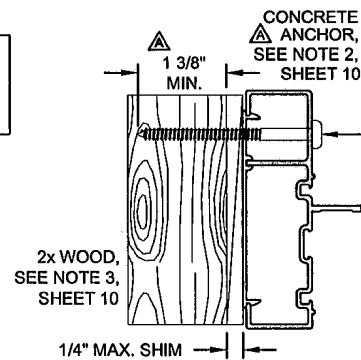
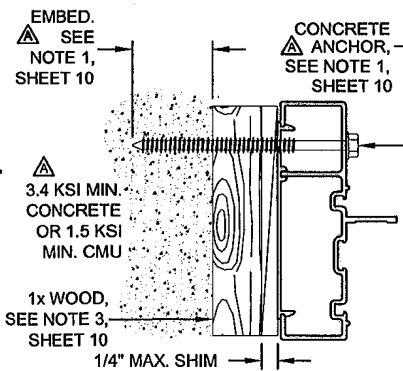
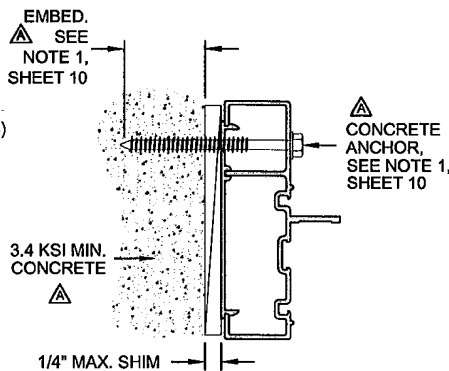


**TYPICAL DOOR SILL
(DIRECT TO WOOD)**



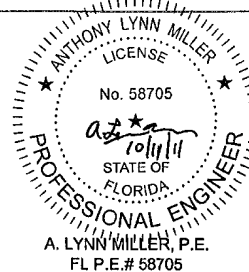
**OPTIONAL DOOR SILL
(SUBSILL TO WOOD)**

↑
INTERIOR
(ALL JAMB SECTIONS)
↓
EXTERIOR



TYPICAL DOOR & SIDE LITE JAMB

PRODUCT REVISED
in compliance with the Florida
Building Code
Amendment No. 11-1013.23
Registration Date March 24, 2015
By *Matthew Perez*
National Trade Product Council



Revised By:	Date:	Revision:	
F.K.	10/16/06	B	ADDED LOW RISE SILL OPTION. REORGANIZED DETAILS.
Revised By:	Date:	Revision:	
J.R.	09/22/09	C	NO CHANGES THIS SHEET.
Revised By:	Date:	Revision:	
J.J.	10/10/11	D	NO CHANGES THIS SHEET.
Drawn By:	Date:	Checked By:	Date:
F.K.	10/16/06	-	-

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1629
NOKOMIS, FL 34274



ANCHORAGE DETAILS (CONT.)

ALUM. FRENCH DOOR & SIDE LITES, NON-IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
FD750	1/4	11 of 11	8000-12	D