



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

PGT Industries, Inc.
1070 Technology Drive
North Venice, 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 RER -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. RER 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-101" Outswing Aluminum French Door w/wo Sidelites – Non-Impact

APPROVAL DOCUMENT: Drawing No.11005-2 Rev F, titled "Alum French Door & Sidelites, NI", sheets 1 through 15 of 15, prepared by manufacturer, dated 04/04/12 and last revised on 07/27/17, signed and sealed by 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: Approved Hurricane Protection devices, complying w/ FBC, as applicable are required.

Limitations:

1. Use of Tables 1 or 2 (sheet 2) requires full length reinforcements (item # 22) for OX, XO, XXO, OXX, OXO and OXXO configurations. The lower design pressure from table 1 or table 2 shall control.
2. Standalone X, XX and O configuration unit do not required, reinforcement (item #22).
3. Applicable Egress operable doors must comply with min clear width & height per FBC, to be reviewed by AHJ.
4. 1x or 2x buck to be properly secured to sustain imposed load and to be reviewed by AHJ.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", 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 & renews** NOA #16-0629.18 and consists of this page 1 and evidence pages E-1 & E-2, as well as approval document mentioned above.

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



NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections (Submitted under files # listed below)
2. Drawing No. **11005-2 Rev F**, titled "Alum French Door & Sidelites, NF", sheets 1 through 15 of 15, prepared by manufacturer, dated 04/04/12 and last revised on 07/27/17, prepared by PGT Industries, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. Reference Test report on
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94.
 - 4) Forced Entry Test, per FBC 2411 3.2.1 (b) and TAS 202-94.
 - 5) Large Missile Impact Test per FBC, TAS 201-94 (N/A)
 - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94 (N/A)

Along with marked-up drawings and installation diagram of aluminum double French door, prepared by Fenestration Testing Laboratory, Inc., Test Report No(s). **FTL-2612**, dated SEP 07, 2000, signed and sealed by Marlin D. Brinson, P.E

Along with marked-up drawings and installation diagram of aluminum fixed door, prepared by Fenestration Testing Laboratory, Inc., Test Report No(s). **FTL-6864**, dated April 09, 2012, signed and sealed by Aldo P. Gonzalez, P.E.

2. Reference Test report on
 - 1) Uniform Static Air Pressure Test, per FBC, TAS 202-94
 - 2) Large Missile Impact Test per FBC, TAS 201-94(N/A)
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94(N/A)

Along with marked-up drawings and installation diagram of Aluminum Sliding Glass Doors (w/ PS, Super, Cardinal & Duraseal Spacers), prepared by Fenestration Testing Laboratory, Inc., Test Reports No(s) **FTL-8717**, **FTL-8970** and **FTL-8968**, dated 02/15/16, 06/07/16 and 06/20/16, all signed & sealed by Idalmis Ortega, P.E. (Submitted under files #**16-0629.18**/**#15-0528.25**)

3. Test report on
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94.
 - 4) Forced Entry Test, per FBC 2411 3.2.1 (b) and TAS 202-94

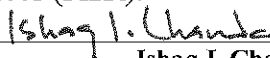
Along with marked-up drawings and installation diagram of aluminum out swinging French door w/ sidelites, prepared by Fenestration Testing Laboratory, Inc., Test Report No(s). **FTL-4964**, dated September 09, 2006, signed and sealed by Edmundo Largaespada, P.E. (Submitted under files #**15-0528.25**/**12-0516.03**/**#11-1013.21**)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis dated 04/28/17 and last revised on 07/17/17, complying with FBC-217 (6th Edition), prepared by PGT, signed and sealed by Lynn Miller, P.E.
2. Glazing complies w/ ASTM E-1300-02, 04 & -09.

D. QUALITY ASSURANCE

1. Miami Dade Department of Regulatory and Economic Resources (RER).


Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 17-0504.02
Expiration Date: August 02, 2022
Approval Date: August 03, 2017

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

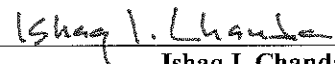
1. None.

F. STATEMENTS

1. Statement letter of conformance to FBC 2017(6th edition) and letter of no financial interest, prepared by PGT, dated 07/17/17, signed and sealed by Lynn Miller, P.E.
2. Statement letter of conformance to FBC 2014(5th edition) and letter of no financial interest, prepared by PGT, dated 05/22/15, signed and sealed by Lynn Miller, P.E. (Submitted under files #15-0528.25)
3. Lab compliance as part of the above referenced test report.

G. OTHER

1. This NOA **revises & renews** NOA # **16-0629.18**, expiring 08/02/22.
2. Test proposal # 16-0152 dated 03/09/16 approved by RER.
3. Test proposal dated Jan. 17, 2007 approved by BCCO.
4. RER e-mail correspondence dated 07-27-2017.



Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 17-0504.02

Expiration Date: August 02, 2022
Approval Date: August 03, 2017

SERIES 101 OUTSWING, NON-IMPACT RESISTANT
FRENCH DOOR AND SIDE LITE

DESIGN PRESSURE RATING	IMPACT RATING
SEE TABLES 1 - 4 ON SHEET 2	NOT RATED FOR IMPACT RESISTANCE

- 1) GLAZING OPTIONS: SEE BELOW.
- 2) DESIGN PRESSURES: (SEE TABLES 1-4 ON SHEET 2.)
A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E 1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E 1300.
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.
- 3) CONFIGURATIONS: X, O, XX, XO, OX, XXO, OXX, OXO, AND OX XO.
- 4) ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. FOR ANCHORAGE REQUIREMENTS SEE SHEETS 8-11. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FBC, CURRENT EDITION.
- 5) SHUTTERS ARE REQUIRED WHERE IMPACT RESISTANCE IS 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.
- 7) REFERENCES: TEST REPORT FTL-2612, 4964 & 6864; ELCO ULTRACON NOA'S, ANSI/AF&PA NDS FOR WOOD CONSTRUCTION, 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).
- 9) DOOR SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE. APPLICABLE EGRESS REQUIREMENTS TO BE REVIEWED BY AUTHORITY HAVING JURISDICTION (AHJ).

- INSTRUCTIONS:
- 1) DETERMINE THE DESIGN PRESSURE, DP REQUIREMENT (LBS/FT²) FOR THE OPENING USING THE **ASCE-7 STANDARD**.
- 2) ON SHEET 2, TABLES 1 & 2 REFER TO PRODUCTS THAT ARE REINFORCED. TABLES 3 & 4 REFER TO PRODUCTS THAT ARE UNREINFORCED. DETERMINE THE DESIGN PRESSURE OF YOUR PRODUCT USING THE APPROPRIATE SET OF TABLES. EXAMPLES ARE GIVEN ON SHEET 2. THIS DESIGN PRESSURE NEEDS TO BE HIGHER THAN THE OPENING'S REQUIRED DESIGN PRESSURE FROM STEP 1.
- 3) DETERMINE YOUR ANCHOR GROUP FROM TABLE A, THIS SHEET AND YOUR GLASS TYPES, A OR B, FROM THE GLAZING DETAILS ON THIS SHEET.
- 4) FROM SHEETS 7-13, FIND THE SHEET THAT PERTAINS TO YOUR PRODUCT'S CONFIGURATION AND DETERMINE THE ANCHOR QUANTITIES REQUIRED.
- 5) ANCHORS ARE TO BE INSTALLED USING THE LOCATION GUIDELINES GIVEN IN THE NOTES ON SHEETS 7-13. SHEET 14 & 15 SHOW INSTALLATION CROSS-SECTIONAL DETAILS.

TABLE A:

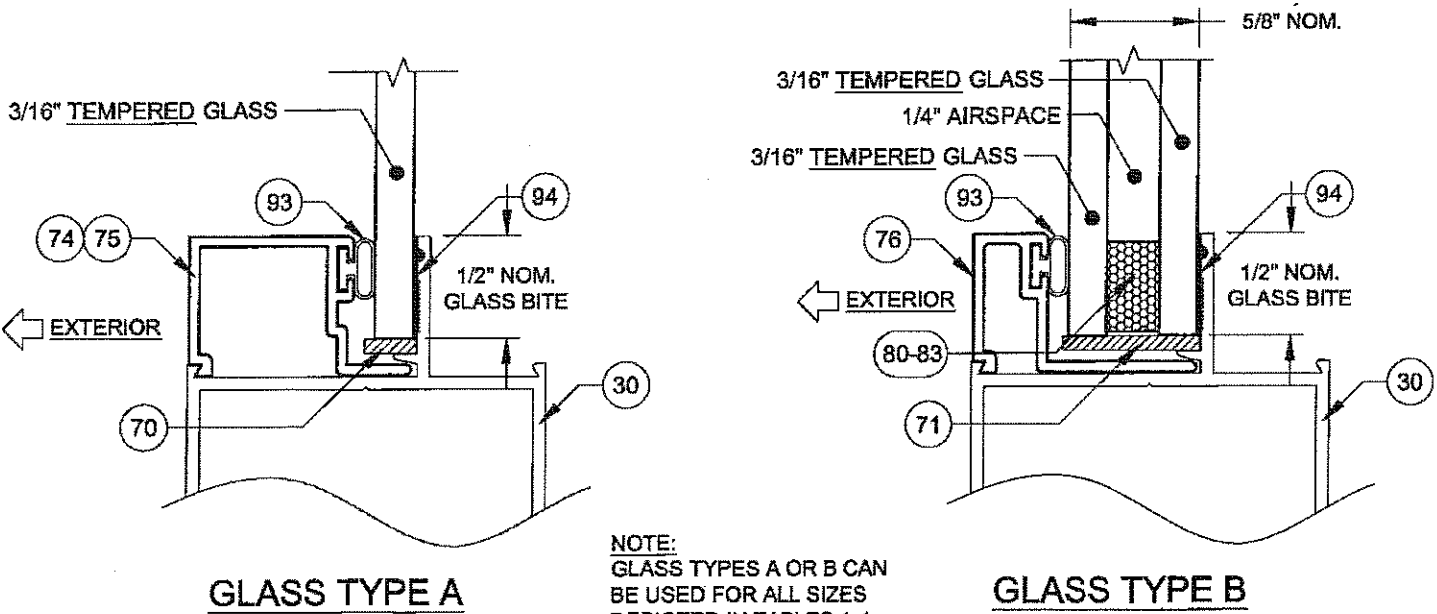
Anchor Group	Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. Embedment or Metal Thickness
1	1/4" Elco UltraCon® F _y =155 ksi, F _u =177 ksi	All	Concrete (min. 2.85 ksi)	1-3/4"	1-3/8"
		Jamb	Hollow Block (ASTM C90)	1-3/4"	1-1/4"
2	1/4" 410 SS Elco CreteFlex® F _y =127.4 ksi, F _u =189.7 ksi	All	Concrete (min. 3.35 ksi)	1-3/4"	1-3/4"
		Jamb	Hollow Block (ASTM C90)	1-3/4"	1-1/4"
		All	Southern Pine (SG = 0.55)	1"	1-3/8"
3	#12 Steel SMS (Gr. 6)	All	Southern Pine (SG = 0.55)	9/16"	1-3/8"
		All	6063-T5 Aluminum	3/8"	1/8"

- 1) ALL ANCHOR HEAD TYPES ARE APPLICABLE.
2) MIN. OF 3 THREADS BEYOND METAL SUBSTRATE.
3) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

CODES / STANDARDS USED:

- 2017 FLORIDA BUILDING CODE (FBC), 6TH EDITION
- 2014 FLORIDA BUILDING CODE (FBC), 5TH EDITION
- ASTM E1300-09
- ANSI/AF&PA NDS-2015 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2015
- AISI S100-12
- AISC 360-10

- GENERAL NOTES..... 1
GLAZING DETAILS..... 1
DESIGN PRESSURES..... 2
VERT. SECTIONS..... 3
HORIZ. SECTIONS..... 4
PARTS LIST..... 5
EXTRUSIONS..... 6
ANCHOR QUANTITY..... 7-13
INSTALLATION..... 14-15



NOTE:
GLASS TYPES A OR B CAN
BE USED FOR ALL SIZES
DEPICTED IN TABLES 1-4.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-0504-02
Expiration Date AUG 02, 2022
S. L. Chas. L. Chas.
Miami Design Product Control

F) REORGANIZED SHEETS AND
UPDATED TO FBC 2017, ADDED
TABLE A & ALUM. SUBSTRATE. -
JR - 04/10/17

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

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04/04/12
Date

JENS ROSOWSKI
By

11005-2
Rev.

F
Rev.

1 OF 15
Sheet

NTS
Scale

FD-101 NI
Series

ALUM. FRENCH DOOR & SIDE LITES, NI
Title

NOTES AND GLZ. DETAILS
Desc.

ANTHONY LYNN MILLER
LICENSE
No. 58705
7/27/17
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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

TABLE 1:

DESIGN PRESSURES FOR REINFORCED DOORS, ALL GLASS TYPES											
CONFIG.	DOOR FRAME WIDTH	DOOR FRAME HEIGHT									
		6' - 79 3/4"		7' - 83 3/4"		8' 7 3/4"		9' 1 3/4"		8' - 95 3/4"	
X	2' 25 1/2"	+75.0	-112.1	+75.0	-105.8	+75.0	-100.2	+75.0	-95.2	+75.0	-90.7
X	27 1/2"	+75.0	-105.0	+75.0	-99.0	+75.0	-93.7	+75.0	-89.0	+75.0	-84.7
X	29 1/2"	+75.0	-98.9	+75.0	-93.2	+75.0	-88.2	+75.0	-83.7	+75.0	-79.6
X	2' 31 1/2"	+75.0	-93.7	+75.0	-88.3	+75.0	-83.4	+75.0	-79.1	+75.0	-75.2
X	2' 33 1/2"	+75.0	-82.3	+75.0	-82.3	+75.0	-79.3	+75.0	-75.1	+71.3	-71.3
X	35 1/2"	+72.9	-72.9	+72.9	-72.9	+72.9	-72.9	+71.6	-71.6	+68.0	-68.0
X	3' 37 1/2"	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0
XX	4' 47 3/4"	+75.0	-112.1	+75.0	-105.8	+75.0	-100.2	+75.0	-95.2	+75.0	-90.7
XX	51 3/4"	+75.0	-105.0	+75.0	-99.0	+75.0	-93.7	+75.0	-89.0	+75.0	-84.7
XX	55 3/4"	+75.0	-98.9	+75.0	-93.2	+75.0	-88.2	+75.0	-83.7	+75.0	-79.6
XX	5' 59 3/4"	+75.0	-93.7	+75.0	-88.3	+75.0	-83.4	+75.0	-79.1	+75.0	-75.2
XX	5' 63 3/4"	+75.0	-82.3	+75.0	-82.3	+75.0	-79.3	+75.0	-75.1	+71.3	-71.3
XX	67 3/4"	+72.9	-72.9	+72.9	-72.9	+72.9	-72.9	+71.6	-71.6	+68.0	-68.0
XX	6' 71 3/4"	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0

TABLE 2:

DESIGN PRESSURES FOR REINFORCED <u>SIDE LITES</u> , ALL GLASS TYPES										
SIDE LITE FRAME WIDTH	SIDE LITE FRAME HEIGHT									
	6 ⁸ - 79 3/4"		7 ⁰ - 83 3/4"		87 3/4"		91 3/4"		8 ⁰ - 95 3/4"	
10 3/4"	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0
12 3/4"	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0
19"	+75.0	-138.5	+75.0	-131.0	+75.0	-124.3	+75.0	-118.3	+75.0	-112.8
21 3/4"	+75.0	-123.4	+75.0	-116.6	+75.0	-110.5	+75.0	-105.1	+75.0	-100.1
27 3/4"	+75.0	-101.1	+75.0	-95.3	+75.0	-90.2	+75.0	-85.5	+75.0	-81.3
36 1/8"	+67.3	-67.3	+67.3	-67.3	+67.3	-67.3	+67.3	-67.3	+65.9	-65.9
36 3/4"	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0

FOR MAX. SIZES OF COMBINED UNITS, SEE SHEETS 10-13.

TABLE 3:

DESIGN PRESSURES FOR UNREINFORCED DOORS, ALL GLASS TYPES											
CONFIG.	DOOR FRAME WIDTH	DOOR FRAME HEIGHT									
		6' - 79 3/4"		7' - 83 3/4"		8' 7 3/4"		9' 1 3/4"		8' - 95 3/4"	
X	2' 25 1/2"	+60.0	-60.3	+57.0	-57.0	+54.0	-54.0	+51.3	-51.3	+48.8	-48.8
X	27 1/2"	+56.5	-56.5	+53.3	-53.3	+50.5	-50.5	+47.9	-47.9	+45.6	-45.6
X	29 1/2"	+53.3	-53.3	+50.2	-50.2	+47.5	-47.5	+45.0	-45.0	+42.8	-42.8
X	2' 31 1/2"	+50.5	-50.5	+47.5	-47.5	+44.9	-44.9	+42.6	-42.6	+40.5	-40.5
X	2' 33 1/2"	+44.3	-44.3	+44.3	-44.3	+42.7	-42.7	+40.4	-40.4	+38.4	-38.4
X	35 1/2"	+39.3	-39.3	+39.3	-39.3	+39.3	-39.3	+38.6	-38.6	+36.6	-36.6
X	3' 37 1/2"	+35.0	-35.0	+35.0	-35.0	+35.0	-35.0	+35.0	-35.0	+35.0	-35.0
XX	4' 47 3/4"	+60.0	-60.3	+57.0	-57.0	+54.0	-54.0	+51.3	-51.3	+48.8	-48.8
XX	51 3/4"	+56.5	-56.5	+53.3	-53.3	+50.5	-50.5	+47.9	-47.9	+45.6	-45.6
XX	55 3/4"	+53.3	-53.3	+50.2	-50.2	+47.5	-47.5	+45.0	-45.0	+42.8	-42.8
XX	5' 59 3/4"	+50.5	-50.5	+47.5	-47.5	+44.9	-44.9	+42.6	-42.6	+40.5	-40.5
XX	5' 63 3/4"	+44.3	-44.3	+44.3	-44.3	+42.7	-42.7	+40.4	-40.4	+38.4	-38.4
XX	67 3/4"	+39.3	-39.3	+39.3	-39.3	+39.3	-39.3	+38.6	-38.6	+36.6	-36.6
XX	6' 71 3/4"	+35.0	-35.0	+35.0	-35.0	+35.0	-35.0	+35.0	-35.0	+35.0	-35.0

TABLE 4:

DESIGN PRESSURES FOR UNREINFORCED <u>SIDE LITES</u> , ALL GLASS TYPES										
SIDE LITE FRAME WIDTH	SIDE LITE FRAME HEIGHT									
	6 ⁸ - 79 3/4"		7 ⁰ - 83 3/4"		87 3/4"		91 3/4"		8 ⁰ - 95 3/4"	
10 3/4"	+60.0	-120.0	+60.0	-118.1	+60.0	-112.4	+60.0	-107.2	+60.0	-102.4
12 3/4"	+60.0	-106.4	+60.0	-100.9	+60.0	-95.9	+60.0	-91.4	+60.0	-87.3
19"	+60.0	-74.6	+60.0	-70.5	+60.0	-66.9	+60.0	-63.7	+60.0	-60.7
21 3/4"	+60.0	-66.4	+60.0	-62.8	+59.5	-59.5	+56.6	-56.6	+53.9	-53.9
27 3/4"	+54.4	-54.4	+51.3	-51.3	+48.5	-48.5	+46.1	-46.1	+43.8	-43.8
36 1/8"	+36.2	-36.2	+36.2	-36.2	+36.2	-36.2	+36.2	-36.2	+35.5	-35.5
36 3/4"	+35.0	-35.0	+35.0	-35.0	+35.0	-35.0	+35.0	-35.0	+35.0	-35.0

FOR MAX. SIZES OF COMBINED UNITS, SEE SHEETS 10-13.

NOTES FOR ALL CONFIGURATIONS:

1) FOR CONFIGURATIONS WHICH CONTAIN A SIDE LITE TO DOOR CONNECTION, (XO, OX, XXO, OXX, OXO, OXXO), THE LOWEST DESIGN PRESSURE SHALL PREVAIL.

2) FULL LENGTH REINFORCEMENT (ITEM 22 SHOWN IN SECTION E-E, SHEET 4), IS REQUIRED AT DOOR TO SIDE LITE CONNECTIONS, WHEN USING TABLES 1 & 2.

3) DOOR AND SIDE LITE COMBINATIONS FROM TABLES 3 AND 4 DO NOT REQUIRE REINFORCEMENT ITEM 22.

4) DESIGN PRESSURES UNDER 40 PSF ARE NOT APPLICABLE IN MIAMI-DADE COUNTY.

5) POSITIVE DESIGN PRESSURE IS LIMITED TO 60 PSF (WATER RESISTANCE 9.0 PSF) FOR NON-REINFORCED DOORS AND SIDE LITES IN TABLES 3 AND 4.

6) FOR DOOR-ONLY CONFIGURATIONS (X, XX), ONLY TABLE 1 IS APPLICABLE. REINFORCEMENT, PART #22, IS NOT REQUIRED.

7) FOR SINGLE, STAND-ALONE SIDE LITES (O), ONLY TABLE 2 IS APPLICABLE. REINFORCEMENT, PART #22, IS NOT REQUIRED

8) CONFIGURATIONS WHERE THE DOOR LOCKSTILE ABUTS A SIDELITE ARE NOT AVAILABLE WITH REINFORCEMENT.

9) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE. (E.G. FOR 32" X" DOOR WIDTH IN TABLE 1, USE 33-1/2")

EXAMPLE 1, (USING TABLE 1): X UNIT WITH GLASS TYPE A, 32" WIDE X 90" HIGH SINGLE DOOR (SEE NOTE 9)

DOOR DESIGN PRESSURE = +75 / -75.1 PSF

EXAMPLE 2, USING TABLES 3 & 4): XO UNIT WITH GLASS TYPE B, UNREINFORCED, 36" WIDE X 84" HIGH SINGLE DOOR WITH 12" X 84" SIDE LITE (SEE NOTE 9)

DOOR DESIGN PRESSURE = +35 / -35 PSF

SIDE LITE DESIGN PRESSURE = +60 / -95.9 PSF

OVERALL DESIGN PRESSURE = +35 / -35 PSF

EXAMPLE 3, (USING TABLE 1): XX UNIT WITH GLASS TYPE A, 63-3/4" WIDE X 91-3/4" HIGH DOUBLE DOOR

DOOR DESIGN PRESSURE = +75 / -75.1 PSF

EXAMPLE 4, (USING TABLES 1 & 2): OXX UNIT WITH GLASS TYPE B, REINFORCED, 60" WIDE X 90" HIGH DOUBLE DOOR WITH 29" X 90" SIDE LITE (SEE NOTE 9)

DOOR DESIGN PRESSURE = +75 / -75.1 PSF

SIDE LITE DESIGN PRESSURE = +67.3 / -67.3 PSF

OVERALL DESIGN PRESSURE = +67.3 / -67.3 PSF

EXAMPLE 5, (USING TABLE 2): O UNIT WITH GLASS TYPE A, 24" WIDE X 80" HIGH (SEE NOTE 9)

SIDE LITE DESIGN PRESSURE = +75 / -95.3 PSF

EXAMPLE 6, (USING TABLES 1 & 2): OXXO UNIT WITH GLASS TYPE B, REINFORCED, 71-3/4" WIDE X 95-3/4" HIGH DOUBLE DOOR WITH (2) 36-3/4" X 95-3/4" SIDE LITES

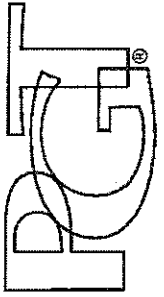
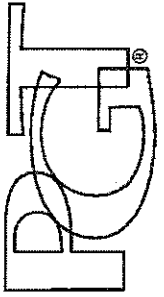
DOOR DESIGN PRESSURE = +65 / -65 PSF

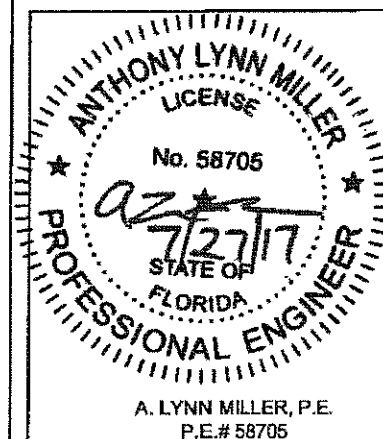
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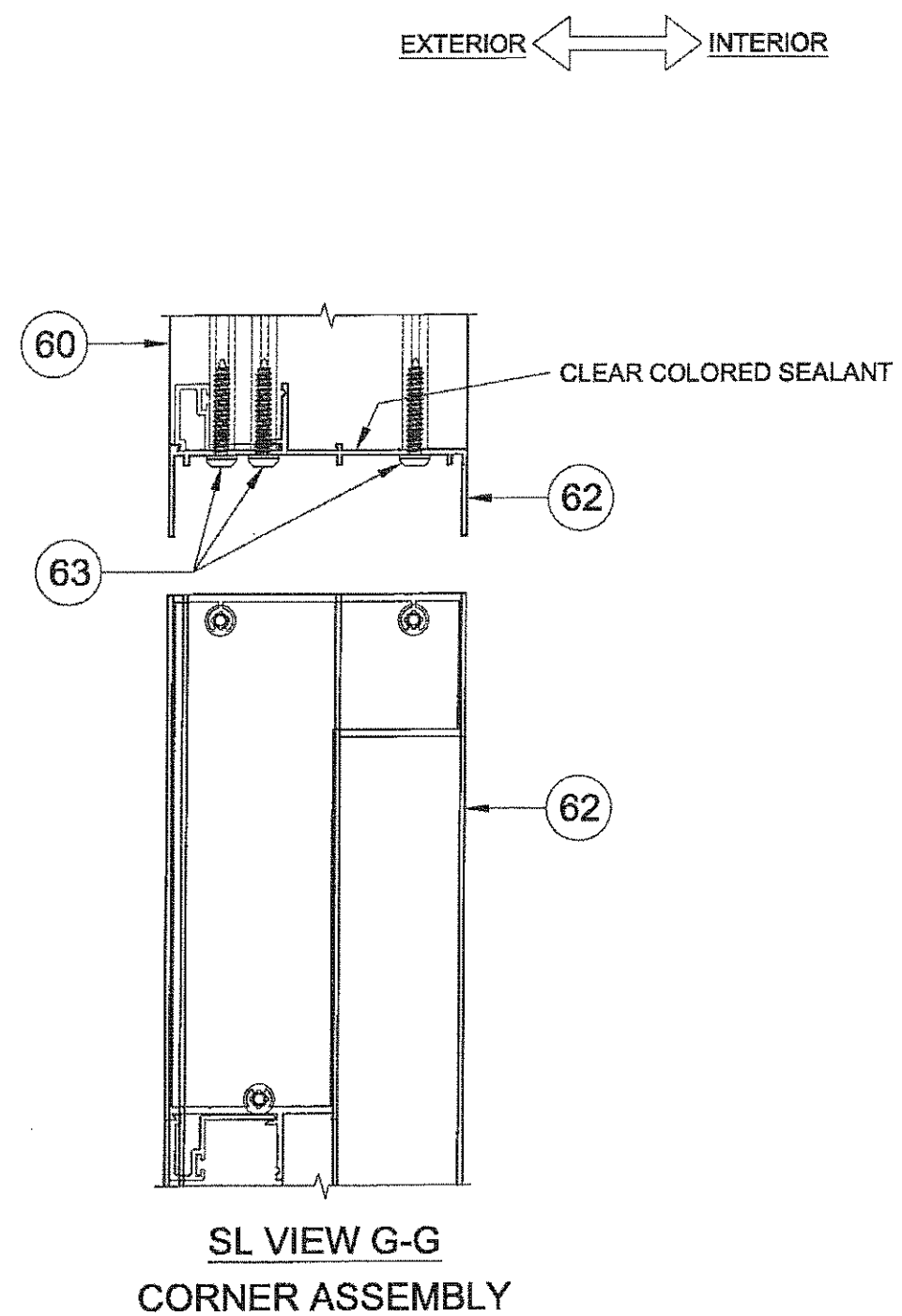
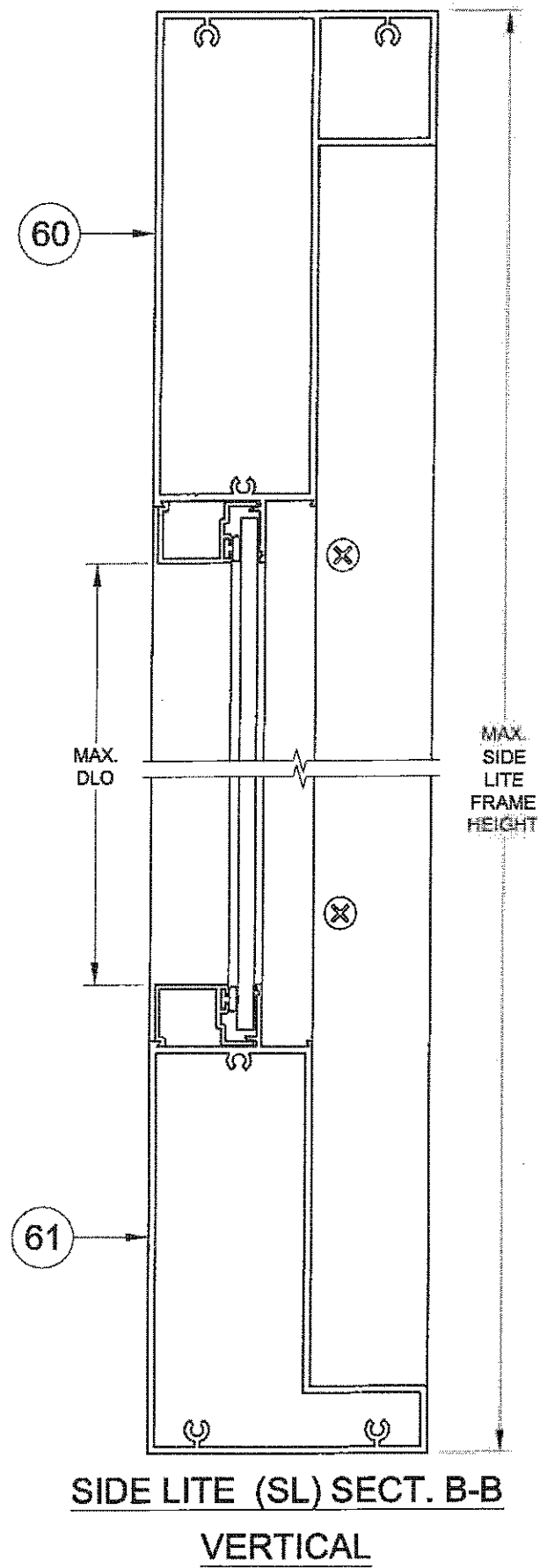
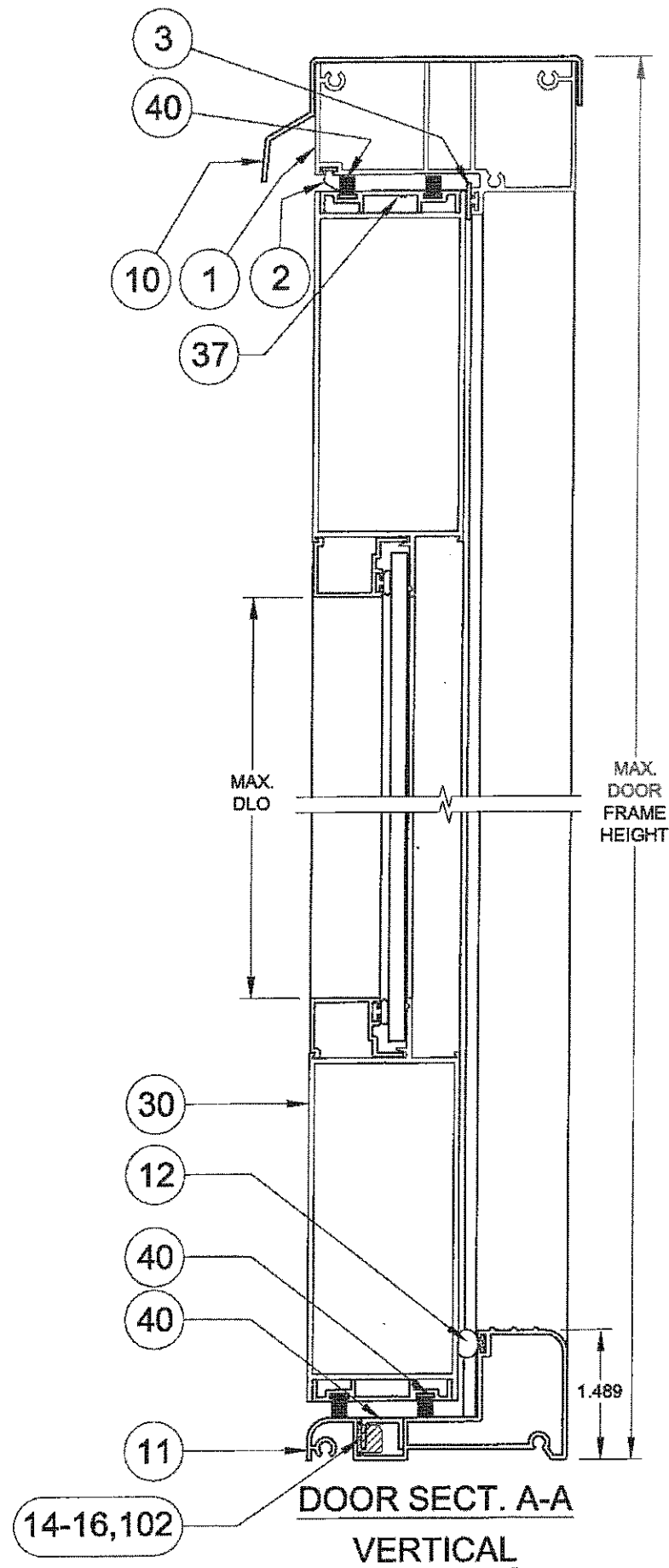
OVERALL DESIGN PRESSURE = +65 / -65 PSF

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Expiration Date 8/2/2022
A. Lynn Miller
Miami Dade Product Council

F) MODIFIED TABLE FORMAT AND
NOTES FOR CLARITY. - JR -
04/10/17

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 CERT. OF AUTH. #28296 ALUM. FRENCH DOOR & SIDE LITES, NI DESIGN PRESSURE TABLES FD-101 NI	 CERT. OF AUTH. #28296 ALUM. FRENCH DOOR & SIDE LITES, NI DESIGN PRESSURE TABLES FD-101 NI	04/04/12	JENS ROSOWSKI	2 OF 15	F

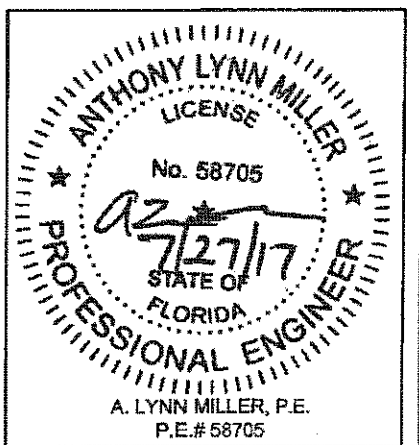




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Expiration Date 8/2/2022
By: [Signature]
Product Control

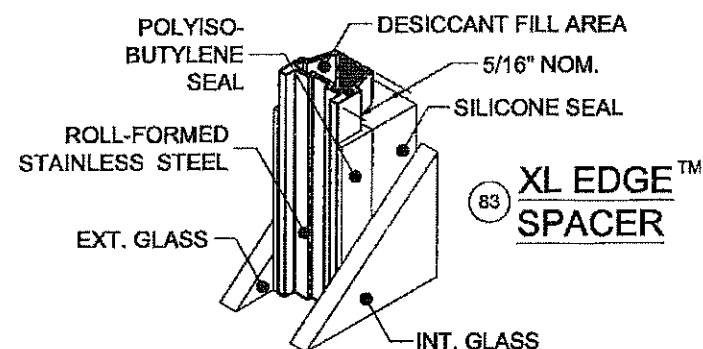
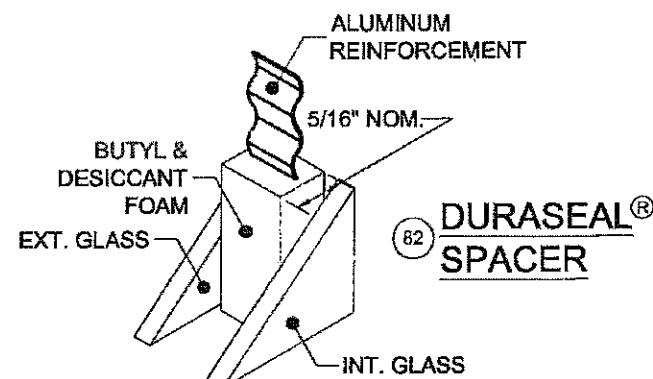
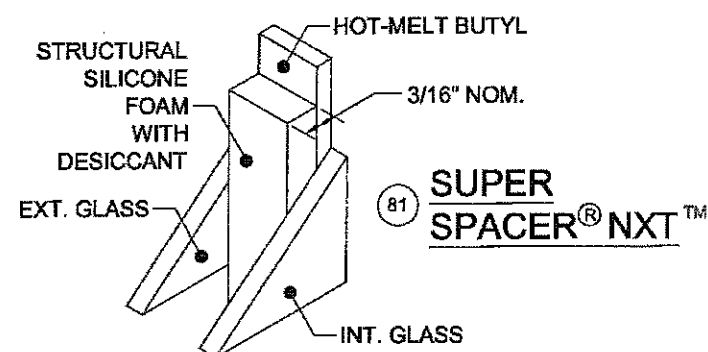
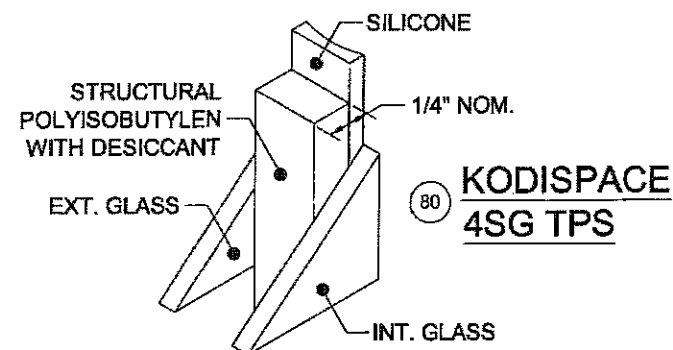
Revision F) NO CHANGES THIS SHEET. - JR
- 04/10/17

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PGT®		CERT. OF AUTH. #29296		3 OF 15		Rev.	
ALUM. FRENCH DOOR & SIDE LITES, NI		JENS ROSOWSKI		No.		Date	
VERTICAL SECTIONS		FD-101 NI		Sheet		By	
NTS		Scale		Date		Title	
FD-101 NI		Scale		Date		Title	



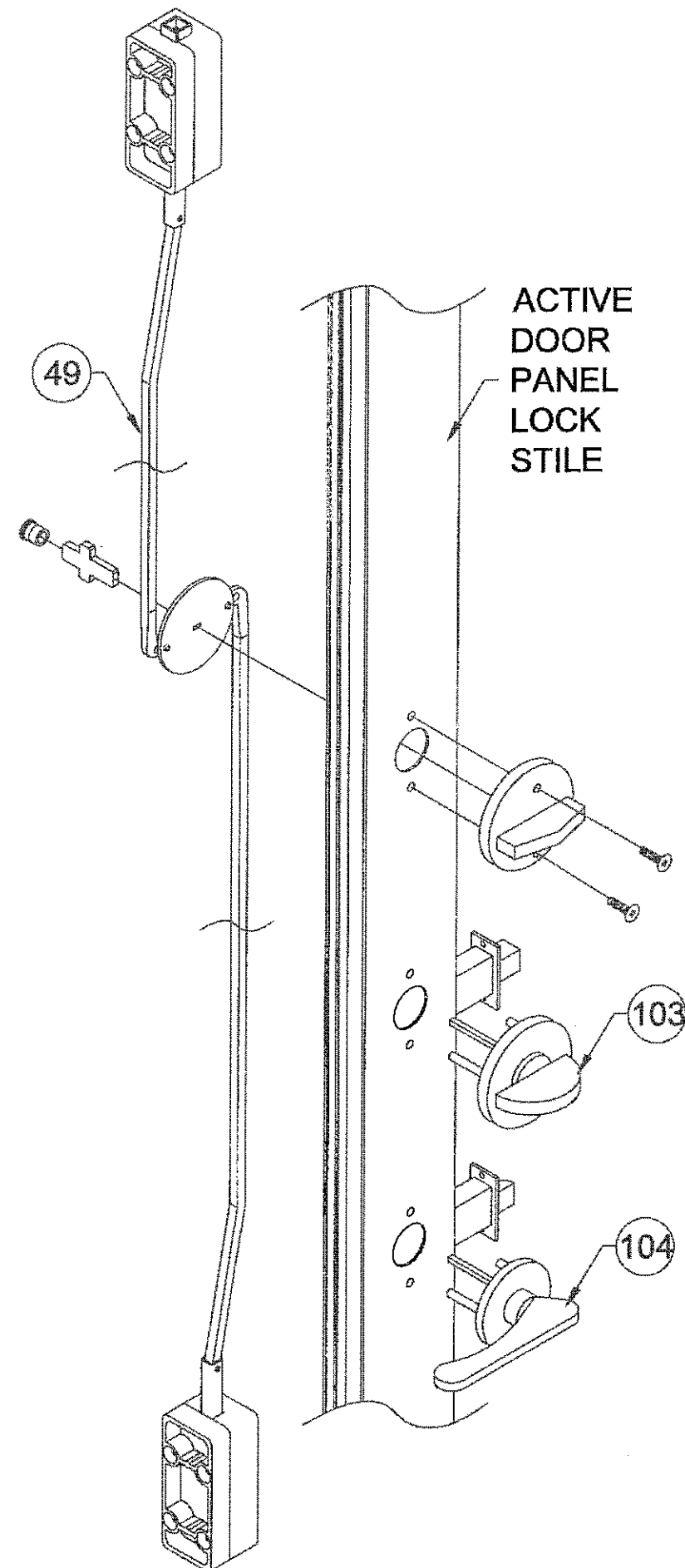
ITEM	DWG #	PGT#	DESCRIPTION
1	943B	60411	FRAME HEAD
2	1010	6Q300	WSTP, Q-LON, 190 X .375 HIGH
3	7070	67070K	BULB WEATHERSTRIP, 187 X .300 HIGH
4	955	7955X	FLUSHBOLT STRIKEPLATE
5	938	7938X	2 PT. LOCK STRIKEPLATE
6	958	7958A	FRAME HEAD STRIKEPLATE BACKING PLATE
7		7832X12FPXP	#8-32 X .500 PH. FL. MS - S.S. W/SILICONE PATCH
8	995	70995	GASKET (BETWEEN THRESHOLD & FRAME JAMB)
9	996	70996	GASKET (BETWEEN HEAD & FRAME JAMB)
10	952A	6533016	FILLER HEAD ADAPTER
11	11000	611000M	OUTSWING THRESHOLD
12	1670	671670	WSTP, .350 RD FOAM FILL T-SLOT (AMSBURY#32011)
13	11004A	611004M	OUTSWING THRESHOLD CHANNEL COVER
14	11001A	411001A	ACETAL SPACER, .085 @ THRESHOLD, OPTIONAL
15	11002A	411002A	ACETAL SPACER, .095 @ THRESHOLD, OPTIONAL
16	11003A	411003A	ACETAL SPACER, .140 @ THRESHOLD, OPTIONAL
20	915D	60380	FRAME JAMB (OUTSWING)
21	1010	6Q300	WSTP, Q-LON, 190 X .375 HIGH
22	6608	66608M	1X2-3/4X.630 TUBE MULL 6061-T5
23	1140	78X112PSATS	#8 X 1.500 PH SQ A T/S
24	1048	71048	JAMB SCREW COVER CAP
25	930	41721N	STRIKE PLATE INSERT
26	1118	710X34PFA	#10 X .750 PH. FL. SMS
27	7070	67070K	BULB WEATHERSTRIP, 187 X .300 HIGH
30	910D	6910	DOOR PANEL, TOP & BOT. RAIL
31	911E	6911	DOOR PANEL, SIDE RAIL (OUTSWING)
32	917	7FRMO	HINGE ASSY. (917-1D)
33	1178	71058FP W,B	#10 X .625 PH. FL. SMS
34	913A	60378M	TRUSS CLAMP
35	1130	6TRODA	5/16-18 THREADED ROD
36	990	7990NUTA	5/16-18 FLANGED HEX NUT
37	914A	60379M	WEATHERSTRIP CHANNEL
38		7834FPT	#8 X .75 PH. FL. TEK
39	997	70997	GASKET (BETWEEN PANEL HEAD/SILL & PANEL STILES)
40	1023	67924G	WSTP, .187 X .250 HIGH, FINSEAL
41	928	41720	SLIDE BOLT ASSY. (TOP & BOTTOM, INACTIVE PANEL)
42	1145	76X12FPAW	#6 X .500 PH. FL. SMS TYPE BDS
43	1212	7P30GG	SILL DUST PLUG (INACTIVE PNL)
44	983B	6983	DOOR PANEL ASTRAGAL 1 (OUTSWING)
45	984B	6984	DOOR PANEL ASTRAGAL 2 (OUTSWING)
46	1213	6Q200K	WSTP, Q-LON, 190 X .200 HIGH
47	929	74UBLOK	LOCK SUPPORT ASSY. (41707 & 41708)
48	1139	7634F	#8 X .750 PH. FL. SMS
49	982	FD2PTAY	2 PT. LOCK ASSEMBLY
50		6R180FS	RUBBER SLEEVE
51	930	41721	STRIKE PL. INSERT (INACTIVE PANEL)
52	931	7FRSPX	DEADBOLT STRIKE PLATE
53	1118	710X34PFA	#10 X .750 PH. FL. SMS
54	957	70957X	HANDLE STRIKE PLATE
55	1118	710X34PFA	#10 X .750 PH. FL. SMS
60	920D	6920D	SIDEUTE HEADER
61	921D	6921	SIDEUTE SILL
62	916B	60381	SIDEUTE JAMB
63	1155	781PQA	#2 X 1.000 QUAD PN. SMS
64	998	7998	HEAD GASKETS (STOCKING #70998)
65	999	7999	SILL GASKETS (STOCKING #70999)
66	934A	61641M	SIDEUTE JAMB ADAPTER
67			#12 SHEET METAL SCREW
70		712653K	SETTING BLOCK, 3/32" X 1/4" X 1" W/PSA
71		71267K	SETTING BLOCK, 1/16" X 1/2" X 1" W/PSA
74	989	6989	BEAD, 3/16"
75	4046	644642	BEAD, 3/16" (FOR SURFACE-APPLIED GRILL KIT)
78	4057	64057	BEAD, 5/8" IG
92	986	64986	BEAD, SIDE LITE INTERIOR
93	1224	6TP247	BULB, THICK (USED IN ALL EXTRUDED BEAD)
94	GLAZING SILICONE, DOW 999 OR 983		
100	GLASS, 3/16" TEMPERED		
101	GLASS, 5/8" I.G., 3/16" TEMPERED, AIR SPACE, 3/16" TEMPERED		
102	11006A	41106A	ACETAL SPACER, .295 @ THRESHOLD, OPTIONAL
103	OFF-THE-SHELF DEAD BOLT LOCK, MIN 1" THROW, GR 3 STEEL		
104	OFF-THE-SHELF HANDLE/LATCH ASSEMBLY, MIN 7/16" THROW, GR 3 STEEL		

ITEMS # 17-19, 28, 29, 56-59, 68, 69, 72, 73, 77-79, 84-91 & 95-99 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.



Part #	Description	Material
80	Kommerling 4SG TPS Spacer System	See this Sheet for Materials
81	Quanex Super Spacer nXT with Hot Melt Butyl	
82	Quanex Duraseal Spacer	
83	Cardinal XL Edge Spacer	

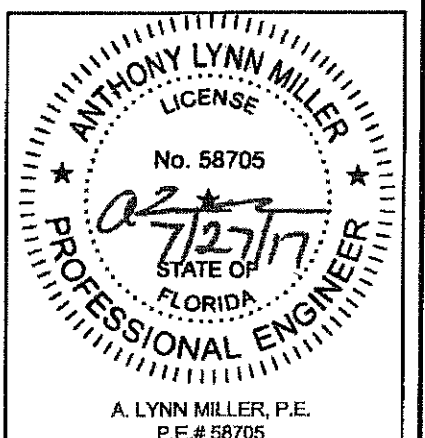
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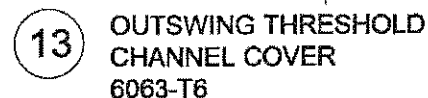
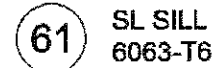
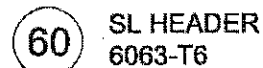
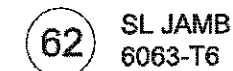
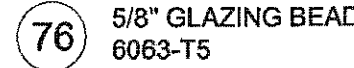
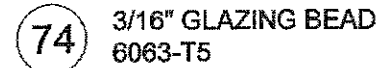
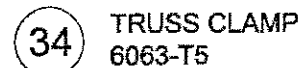
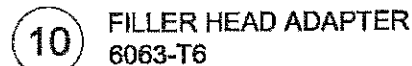


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Expiration Date 8/2/2022
Anthony L. Miller
Professional Engineer

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- 04/10/17

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PGT CERT. OF AUTH. #28296	ALUM. FRENCH DOOR & SIDE LITES, NI	BOM AND SPACER DETAILS	JENS ROSOWSKI	5 OF 15	Sheet
FD-101 NI	NTS	Scale	Title	Series	Desc.





F) NO CHANGES THIS SHEET. - JR
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FD-101 NI	Scale	DWG No.	11005-2
	NTS	Sheet	Rev.
		6 OF 15	F

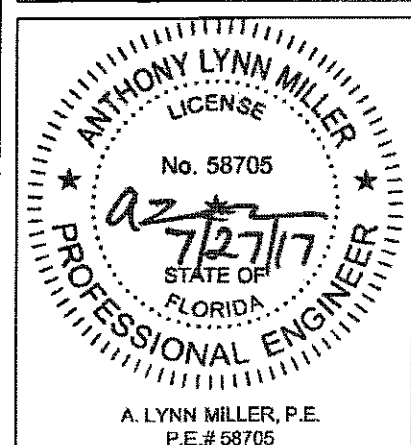
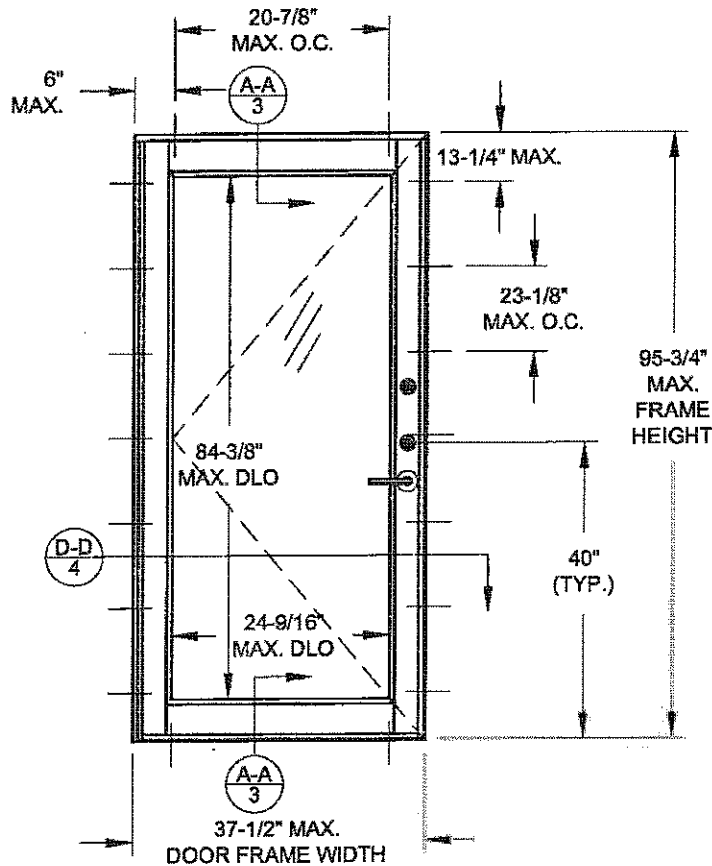
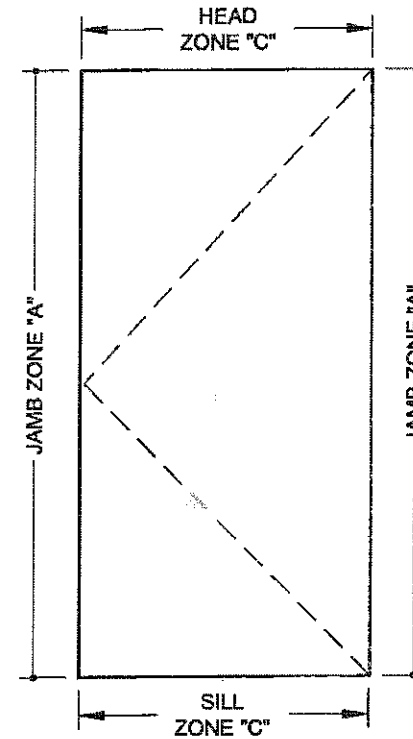


TABLE 5:

X DOORS, GLASS TYPES A & B					
ANCHOR TYPE & SUBSTRATE		2,3, WOOD 3 ALUM		1,2, CONCRETE	
		LOAD ZONES			
		X - JAMB "A"	X - HEAD & SILL "C"	X - JAMB "A"	X - HEAD & SILL "C"
MAX DOOR FRAME WIDTH	MAX FRAME HEIGHT				
25.500	79.750	7	2	4	2
	83.750	7	2	4	2
	87.750	7	2	4	2
	91.750	7	2	4	2
	95.750	7	2	4	2
27.500	79.750	7	2	4	2
	83.750	7	2	4	2
	87.750	7	2	4	2
	91.750	7	2	4	2
	95.750	7	2	4	2
29.500	79.750	7	3	4	3
	83.750	7	3	4	3
	87.750	7	3	4	3
	91.750	7	3	4	3
	95.750	7	3	4	3
31.500	79.750	7	3	4	3
	83.750	7	3	4	3
	87.750	7	3	4	3
	91.750	7	3	4	3
	95.750	7	3	4	3
33.500	79.750	6	3	4	3
	83.750	6	3	4	3
	87.750	7	3	4	3
	91.750	7	3	4	3
	95.750	7	3	4	3
35.500	79.750	6	3	4	3
	83.750	6	3	4	3
	87.750	6	3	4	3
	91.750	6	3	4	3
	95.750	6	3	4	3
37.500	79.750	5	3	4	3
	83.750	6	3	4	3
	87.750	6	3	4	3
	91.750	6	3	4	3
	95.750	6	3	4	3



TYP. DIMENSIONS OF
SINGLE DOOR, X



LOAD ZONES FOR
SINGLE DOOR, X

NOTES:

- 1) SEE SHEET 1 FOR GLASS AND ANCHOR TYPE DESCRIPTIONS.
- 2) DOORS MAY BE LEFT OR RIGHT-HANDED.
- 3) ANCHOR QUANTITIES ARE BASED ON SPACING AS FOLLOWS (4" MIN. O.C. FOR CONCRETE, 4" MIN. O.C. FOR CMU):
JAMBS (ALL): 13-1/4" MAX. FROM CORNERS AND 23-1/8" MAX. O.C.
HEAD & SILL OF DOORS: 6" MAX. FROM CORNERS, 9" MAX. FROM ASTRAGAL CENTERS AND 20-7/8" MAX. O.C.
- 4) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.
- 5) FOR ANCHORAGE INSTALLATION DETAILS SEE SHEET 14.

Design Pressure

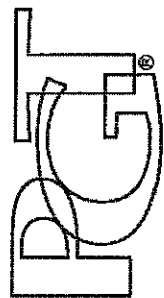
See Sheet 2, Table 1

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A. Lynn Miller
Me as' Dade Product Control

Revision
F) NEW SHEET COMBINING SIZE
ELEVATIONS, ZONE ELEVATIONS
AND ANCHOR TABLES. - JR -
04/10/17

1070 TECHNOLOGY DRIVE
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(941)-480-1600

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ALUM. FRENCH DOOR & SIDE LITES, NI

X DETAILS

Date 04/04/12

By JENS ROSOWSKI

No. 11005-2

Rev. F

DWG

7 OF 15

Sheet

NTS

Scale

FD-101 NI

Series

Desc.

Title

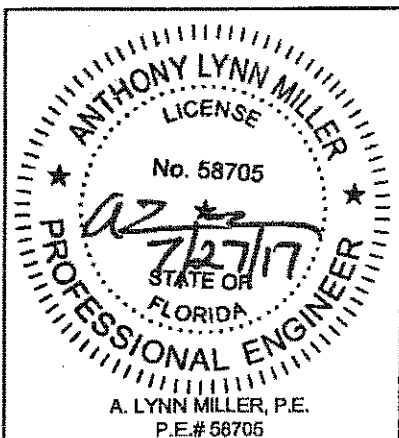
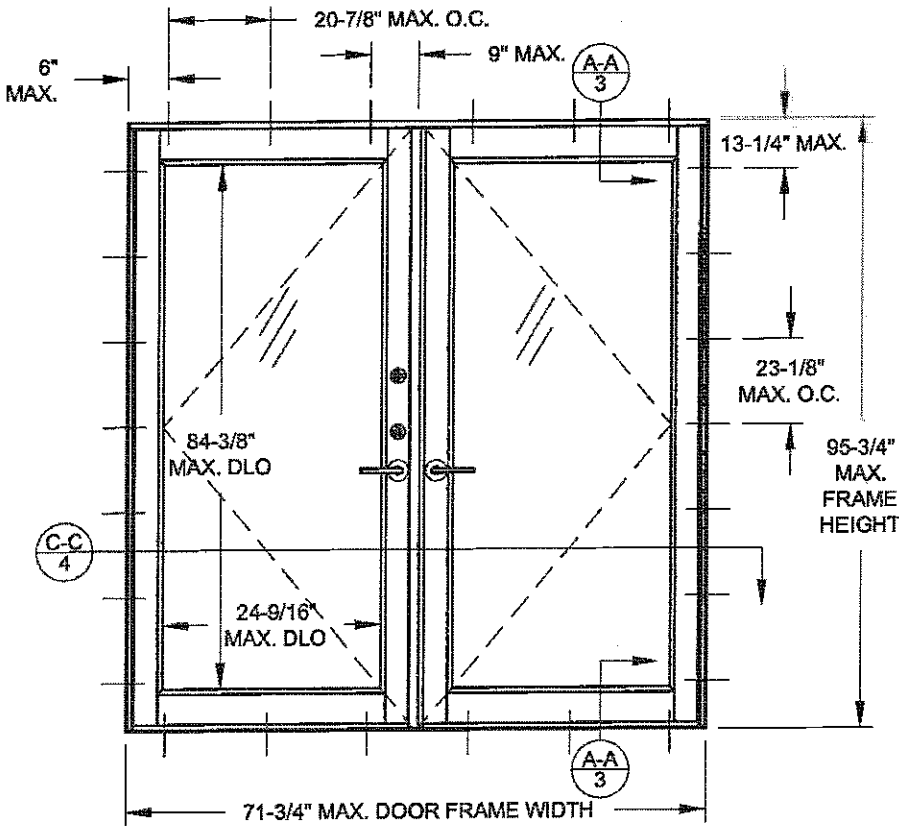
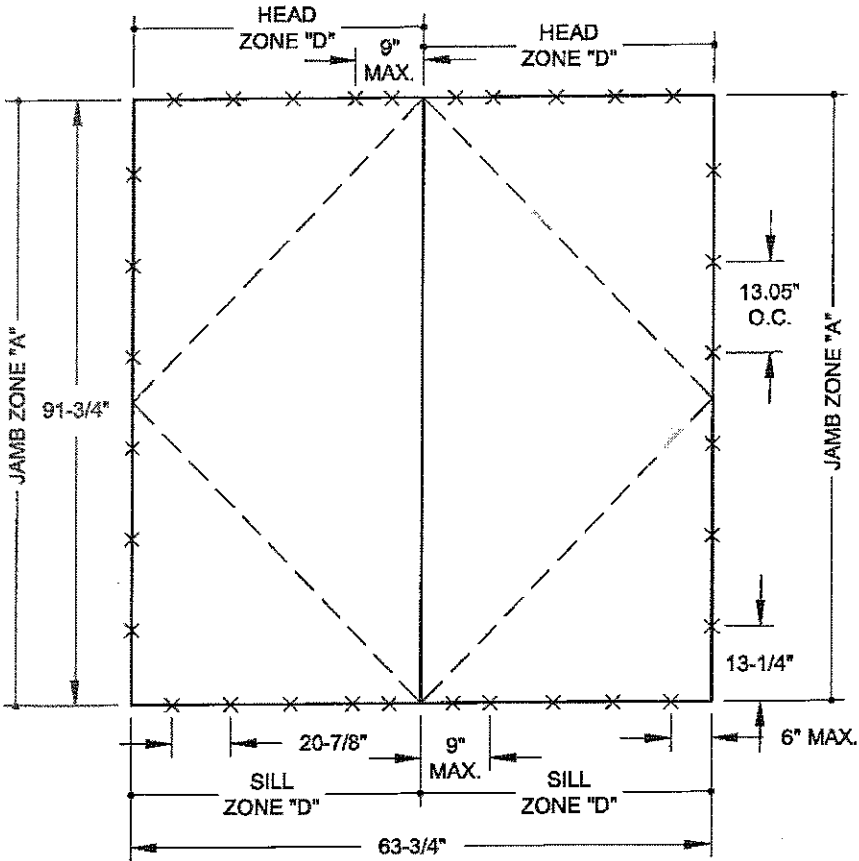


TABLE 6:

XX DOORS GLASS TYPES A & B					
ANCHOR TYPE & SUBSTRATE		2,3, WOOD 3 ALUM		1,2, CONCRETE	
		LOAD ZONES			
		XX - JAMB "A"	XX - HEAD & SILL "D"	XX - JAMB "A"	XX - HEAD & SILL "D"
MAX DOOR FRAME WIDTH	MAX FRAME HEIGHT				
47.750	79.750	6	5	4	3
	83.750	6	4	4	3
	87.750	6	4	4	3
	91.750	6	4	4	3
	95.750	6	4	4	3
51.750	79.750	6	5	4	3
	83.750	6	5	4	3
	87.750	6	4	4	3
	91.750	6	4	4	3
	95.750	6	4	4	3
55.750	79.750	6	5	4	3
	83.750	6	5	4	3
	87.750	6	5	4	3
	91.750	6	5	4	3
	95.750	6	4	4	3
59.750	79.750	6	5	4	3
	83.750	6	5	4	3
	87.750	6	5	4	3
	91.750	6	5	4	3
	95.750	6	5	4	3
63.750	79.750	6	5	4	3
	83.750	6	5	4	3
	87.750	6	5	4	3
	91.750	6	5	4	3
	95.750	6	5	4	3
67.750	79.750	5	5	4	3
	83.750	6	5	4	3
	87.750	6	5	4	3
	91.750	6	5	4	3
	95.750	6	5	4	3
71.750	79.750	5	5	4	3
	83.750	5	5	4	3
	87.750	6	5	4	3
	91.750	6	5	4	3
	95.750	6	5	4	3



TYP. ELEVATION OF XX CONFIGURATION



LOAD ZONES FOR XX CONFIGURATION
& ANCHORAGE LAYOUT USED IN EXAMPLE

Design Pressure

See Sheet 2, Table 1

NOTES:

- 1) SEE SHEET 1 FOR GLASS AND ANCHOR TYPE DESCRIPTIONS.
- 2) DOORS MAY BE LEFT OR RIGHT-HANDED.
- 3) ANCHOR QUANTITIES ARE BASED ON SPACING AS FOLLOWS (4" MIN. O.C. FOR CONCRETE, 4" MIN. O.C. FOR CMU):
JAMBS (ALL): 13-1/4" MAX. FROM CORNERS AND 23-1/8" MAX. O.C.
HEAD & SILL OF DOORS: 6" MAX. FROM CORNERS, 9" MAX. FROM ASTRAGAL CENTERS AND 20-7/8" MAX. O.C.
- 4) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.
- 5) FOR ANCHORAGE DETAILS SEE SHEET 14.

EXAMPLE:
XX WITH GLASS TYPE A,
63-3/4" WIDE X 91-3/4" HIGH DOUBLE DOOR,
ANCHOR TYPE 3 INTO WOOD,
DOOR DESIGN PRESSURE = +75 / -75.1 PSF,
SEE EXAMPLE 3, SHEET 2 FOR DP EXAMPLE

DOOR ANCHOR REQUIREMENTS FROM TABLE 6:
6 ANCHORS @ EACH JAMB
5 ANCHORS EACH DOOR PANEL @ HEAD
5 ANCHORS EACH DOOR PANEL @ SILL

SEE CIRCLED VALUES ON TABLE 6.

X = DENOTES ANCHOR LOCATION.

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Building Code
Acceptance No. 17-0804.02
Expiration Date: 8/2/2022
A. Lynn Miller
Professional Engineer

F) NEW SHEET COMBINING SIZE
ELEVATIONS, ZONE ELEVATIONS
AND ANCHOR TABLES. - JR -
04/10/17

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Rev. 11005-2

No. 8 OF 15

Sheet

Scale

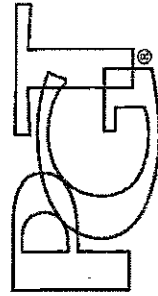
NTS

FD-101 NI

Series

Desc.

Title



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ALUM. FRENCH DOOR & SIDE LITES, NI

XX DETAILS

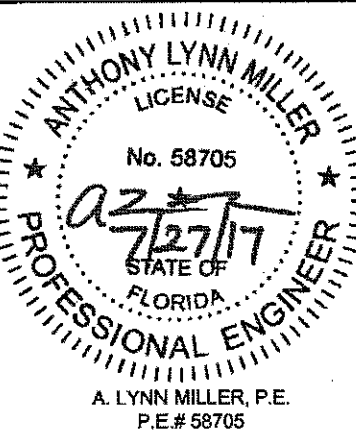
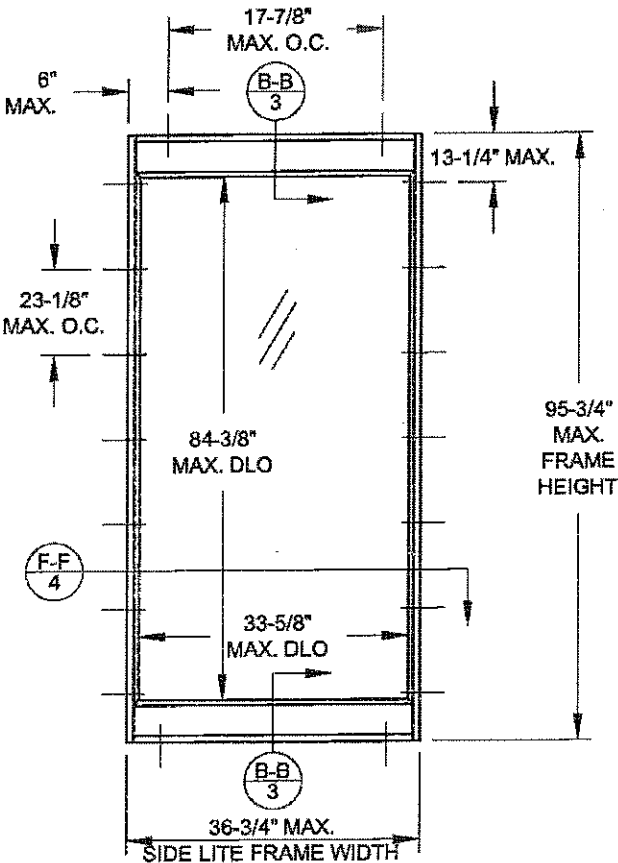


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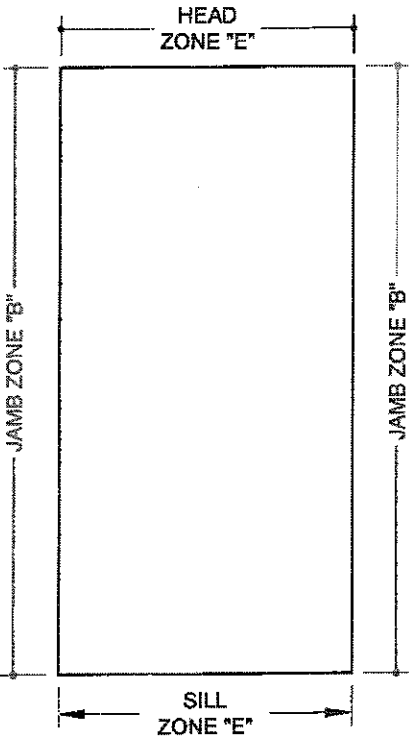
Q SIDE LITE, GLASS TYPES A & B					
ANCHOR TYPE & SUBSTRATE		2,3, WOOD 3 ALUM		1,2, CONCRETE	
		LOAD ZONES			
		O - JAMB "B"	O - HEAD & SILL "E"	O - JAMB "B"	O - HEAD & SILL "E"
MAX FRAME WIDTH	MAX FRAME HEIGHT				
10.750	79.750	4	2	4	2
	83.750	5	2	4	2
	87.750	5	2	4	2
	91.750	5	2	4	2
	95.750	5	2	4	2
12.750	79.750	5	2	4	2
	83.750	5	2	4	2
	87.750	5	2	4	2
	91.750	6	2	4	2
	95.750	6	2	4	2
19.000	79.750	6	2	4	2
	83.750	6	2	4	2
	87.750	6	2	4	2
	91.750	6	2	4	2
	95.750	6	2	4	2
21.750	79.750	6	2	4	2
	83.750	6	2	4	2
	87.750	6	2	4	2
	91.750	6	2	4	2
	95.750	6	2	4	2
27.750	79.750	6	2	4	2
	83.750	6	2	4	2
	87.750	6	2	4	2
	91.750	6	2	4	2
	95.750	6	2	4	2
36.125	79.750	5	3	4	3
	83.750	6	3	4	3
	87.750	6	3	4	3
	91.750	6	3	4	3
	95.750	6	3	4	3
38.750	79.750	5	3	4	3
	83.750	5	3	4	3
	87.750	6	3	4	3
	91.750	6	3	4	3
	95.750	6	3	4	3

NOTES:

- 1) SEE SHEET 1 FOR GLASS AND ANCHOR TYPE DESCRIPTIONS.
- 2) ANCHOR QUANTITIES ARE BASED ON SPACING AS FOLLOWS (4" MIN. O.C. FOR CONCRETE, 4" MIN. O.C. FOR CMU):
JAMBS (ALL): 13-1/4" MAX. FROM CORNERS AND 23-1/8" MAX. O.C.
HEAD & SILL OF SIDE LITES: 6" MAX. FROM CORNERS AND 24-3/4" MAX. O.C.
- 3) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.
- 4) FOR ANCHORAGE INSTALLATION DETAILS SEE SHEET 15.



TYP. ELEVATION OF
SINGLE SIDELITE, O



LOAD ZONES FOR
SINGLE SIDELITE, O

Design Pressure
See Sheet 2, Table 2

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-0004-02
Expiration Date 8/2/22
A. Lynn Miller
Life and Soul Product Control

Revision
F) NEW SHEET COMBINING SIZE
ELEVATIONS, ZONE ELEVATIONS
AND ANCHOR TABLES. - JR -
04/10/17

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

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Date

By

04/04/12

Drawn

JENS ROSOWSKI

Rev.

11005-2

No.

DWG

9 OF 15

Sheet

NTS

Scale

FD-101 NI

Series

Desc.

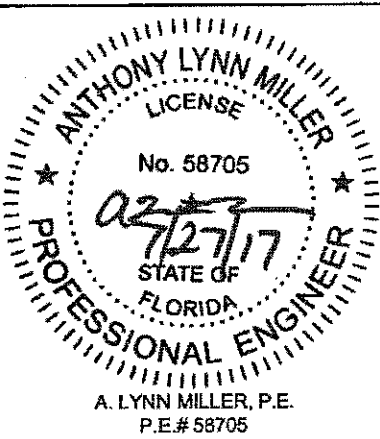
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CERT. OF AUTH. #29296

ALUM. FRENCH DOOR & SIDE LITES, NI

O DETAILS

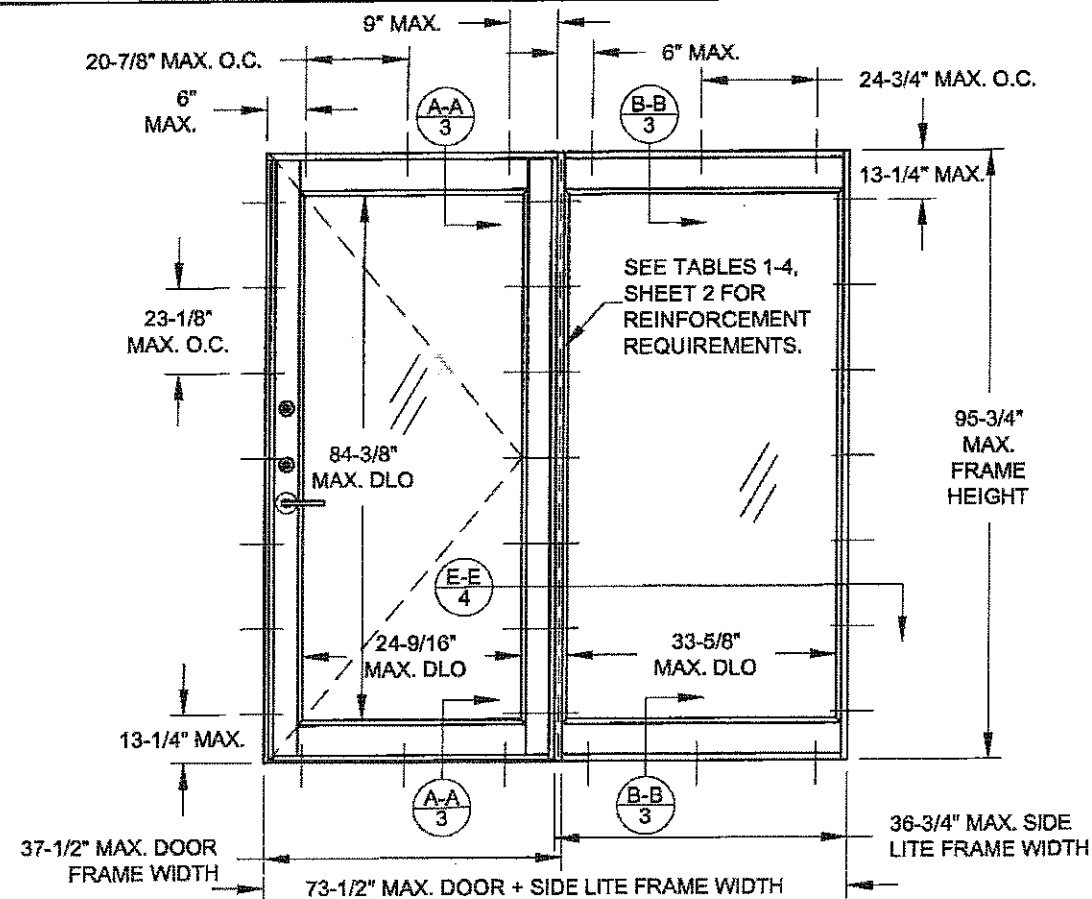


A. LYNN MILLER, P.E.
P.E.# 58705

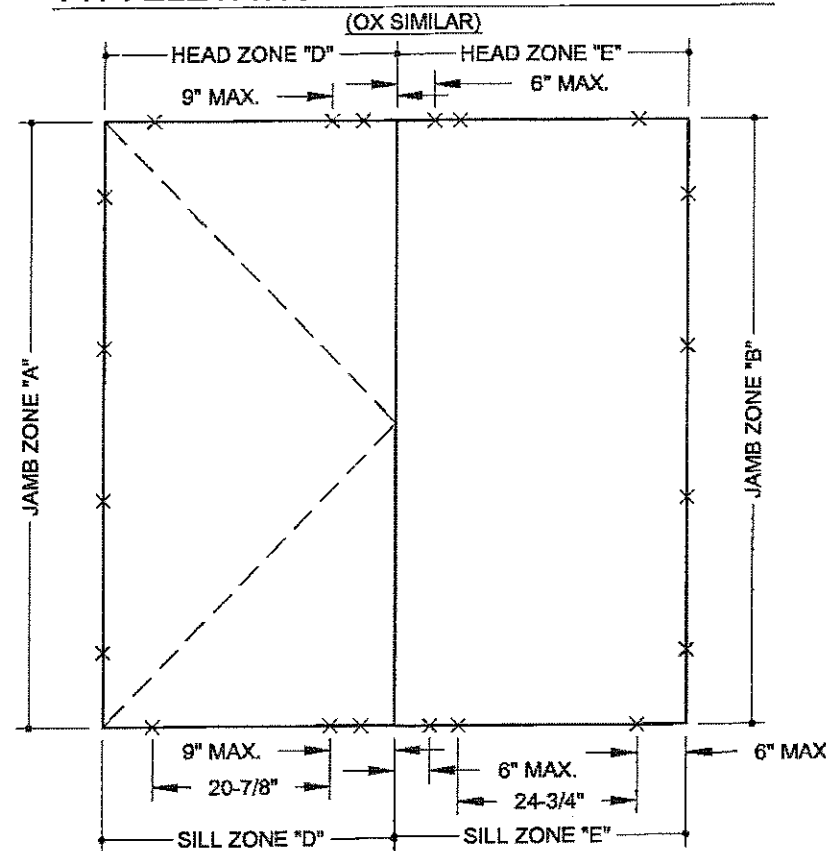
TABLE 8:

XO & OX DOORS, GLASS TYPES A & B										
ANCHOR TYPE & SUBSTRATE			2,3, WOOD 3 ALUM				1,2, CONCRETE			
			LOAD ZONES							
			O - JAMB "B"	O - HEAD & SILL "E"	X - HEAD & SILL "D"	X - JAMB "A"	O - JAMB "B"	O - HEAD & SILL "E"	X - HEAD & SILL "D"	X - JAMB "A"
MAX SIDE LITE FRAME WIDTH	MAX X DOOR FRAME WIDTH	MAX FRAME HEIGHT								
10.750	25.500	79.750	4	3	5	7	4	2	3	4
		83.750	5	3	4	7	4	2	3	4
		87.750	5	3	4	7	4	2	3	4
		91.750	5	3	4	7	4	2	3	4
		95.750	5	3	4	7	4	2	3	4
12.750	27.500	79.750	5	3	5	7	4	2	3	4
		83.750	5	3	5	7	4	2	3	4
		87.750	5	3	4	7	4	2	3	4
		91.750	6	3	4	7	4	3	3	4
		95.750	6	3	4	7	4	3	3	4
19.000	29.500	79.750	6	3	5	7	4	3	3	4
		83.750	6	3	5	7	4	3	3	4
		87.750	6	3	5	7	4	3	3	4
		91.750	6	3	5	7	4	3	3	4
		95.750	6	3	4	7	4	3	3	4
21.750	31.500	79.750	6	3	5	7	4	3	3	4
		83.750	6	3	5	7	4	3	3	4
		87.750	6	3	5	7	4	3	3	4
		91.750	6	3	5	7	4	3	3	4
		95.750	6	3	5	7	4	3	3	4
27.750	33.500	79.750	6	3	5	6	4	3	3	4
		83.750	6	3	5	6	4	3	3	4
		87.750	6	3	5	7	4	3	3	4
		91.750	6	3	5	7	4	3	3	4
		95.750	6	3	5	7	4	3	3	4
36.125	35.500	79.750	5	3	5	6	4	3	3	4
		83.750	6	3	5	6	4	3	3	4
		87.750	6	3	5	6	4	3	3	4
		91.750	6	3	5	6	4	3	3	4
		95.750	6	3	5	6	4	3	3	4
36.750	37.500	79.750	5	3	5	5	4	3	3	4
		83.750	5	3	5	6	4	3	3	4
		87.750	6	3	5	6	4	3	3	4
		91.750	6	3	5	6	4	3	3	4
		95.750	6	3	5	6	4	3	3	4

ANCHOR QUANTITIES FOR THE DOOR AND SIDE LITE TO BE DETERMINED INDEPENDENTLY.



TYP. ELEVATION OF XO CONFIGURATION

LOAD ZONES FOR XO CONFIGURATION
& ANCHORAGE LAYOUT USED IN EXAMPLE
(OX SIMILAR)

Design Pressure	
Reinforced:	See Sheet 2, Tables 1 & 2
Unreinforced:	See Sheet 2, Tables 3 & 4

NOTES:

- SEE SHEET 1 FOR GLASS AND ANCHOR TYPE DESCRIPTIONS.
- DOORS MAY BE LEFT OR RIGHT-HANDED.
- ANCHOR QUANTITIES ARE BASED ON SPACING AS FOLLOWS (4" MIN. O.C. FOR CONCRETE, 4" MIN. O.C. FOR CMU):
JAMBS (ALL): 13-1/4" MAX. FROM CORNERS AND 23-1/8" MAX. O.C.
HEAD & SILL OF DOORS: 6" MAX. FROM CORNERS, 9" MAX. FROM ASTRAGAL CENTERS AND 20-7/8" MAX. O.C.
HEAD & SILL OF SIDE LITES: 6" MAX. FROM CORNERS AND 24-3/4" MAX. O.C.
- FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.
- FOR ANCHORAGE INSTALLATION DETAILS SEE SHEETS 14 & 15.
- CONFIGURATIONS WHERE THE DOOR LOCKSTILE ABUTS A SIDE LITE ARE NOT AVAILABLE WITH REINFORCEMENT.
- SIDE LITE OVERLAPS DOOR BY 3/4" ONCE ASSEMBLED.

EXAMPLE:
XO WITH GLASS TYPE B,
36" X 84" SINGLE DOOR WITH 36" X 84" WIDE SIDE LITE,
ANCHOR TYPE 3 INTO CONC.
DOOR DESIGN PRESSURE = +35 / -35 PSF,
SEE EXAMPLE 2, SHEET 2 FOR DP EXAMPLE

DOOR ANCHOR REQUIREMENTS FROM TABLE 8:

- 4 ANCHORS @ DOOR JAMB
- 4 ANCHORS @ SIDE LITE JAMB
- 3 ANCHORS @ DOOR PANEL @ HEAD
- 3 ANCHORS @ DOOR PANEL @ SILL
- 3 ANCHORS @ SIDE LITE @ HEAD
- 3 ANCHORS @ SIDE LITE @ SILL

SEE CIRCLED VALUES ON TABLE 8.

X = DENOTES ANCHOR LOCATION.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-0504-02
Expiration Date 8/17/2022
New Product Control

F) NEW SHEET COMBINING SIZE
ELEVATIONS, ZONE ELEVATIONS
AND ANCHOR TABLES. - JR -
04/10/17

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

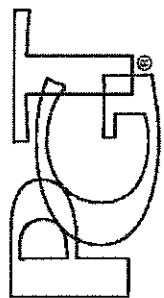
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Date 04/04/12

By JENS ROSOWSKI

No. 11005-2

Rev. F



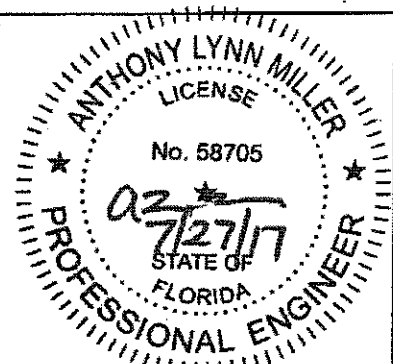
CERT. OF AUTH. #29296

ALUM. FRENCH DOOR & SIDE LITES, NI

XO & OX DETAILS

FD-101 NI

Sheet 10 OF 15



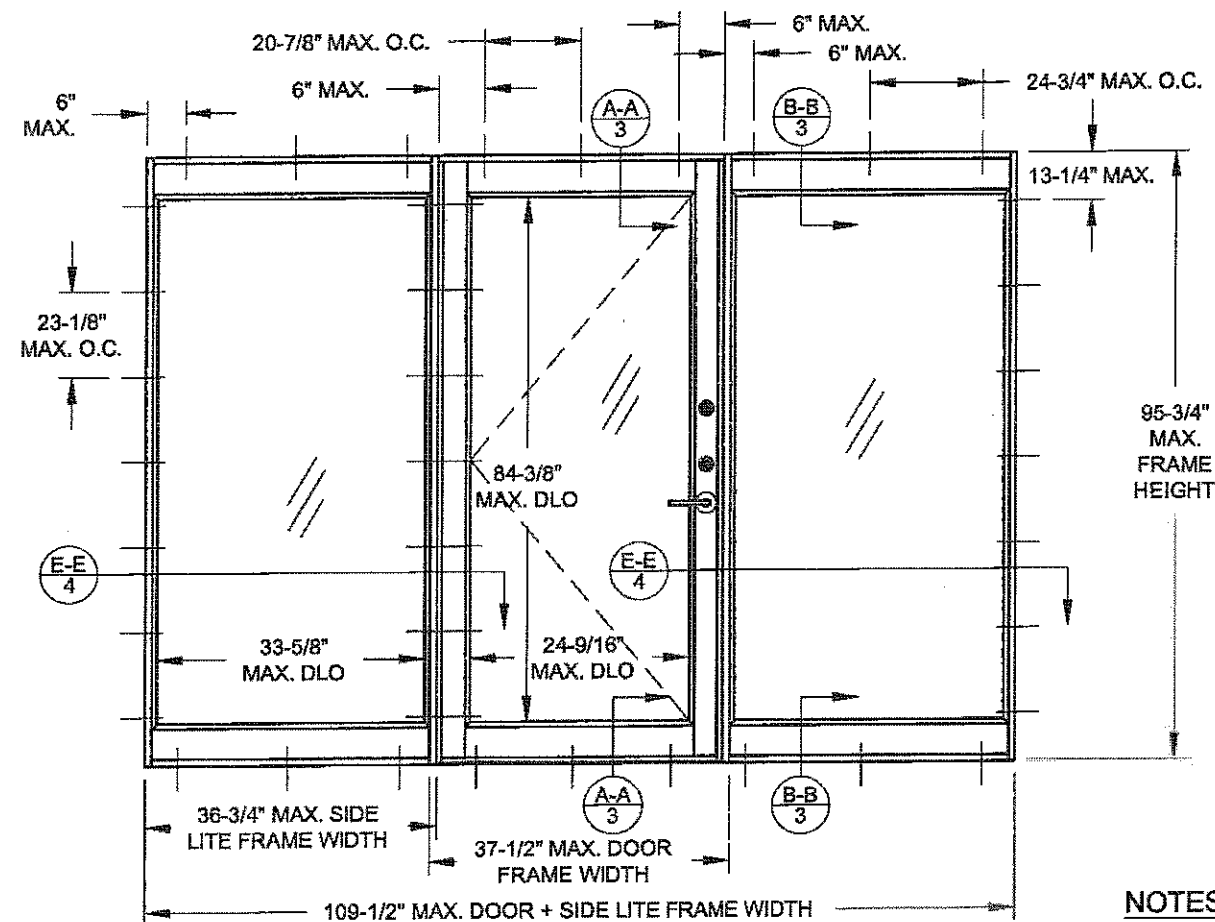
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 9:

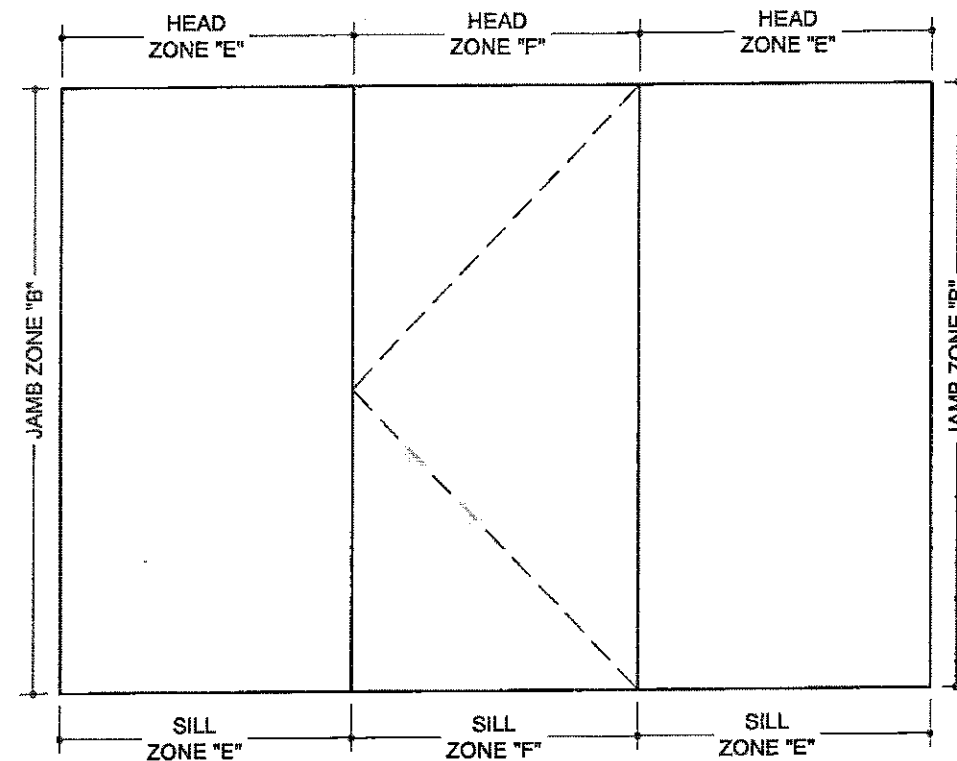
OXO DOORS, GLASS TYPES A & B

ANCHOR TYPE & SUBSTRATE			2,3, WOOD 3 ALUM			1,2, CONCRETE					
			LOAD ZONES								
			O - JAMB "B"	O - HEAD & SILL "E"	X - HEAD & SILL "F"	O - JAMB "B"	O - HEAD & SILL "E"	X - HEAD & SILL "F"			
MAX SIDE LITE FRAME WIDTH	MAX X DOOR FRAME WIDTH	MAX FRAME HEIGHT	10.750	25.500	79.750	4	3	10	4	2	5
		83.750			5	3	10	4	2	5	
		87.750			5	3	10	4	2	5	
		91.750			5	3	9	4	2	5	
		95.750			5	3	9	4	2	5	
12.750	27.500	79.750	5	3	10	4	2	5			
		83.750	5	3	10	4	2	5			
		87.750	5	3	10	4	2	5			
		91.750	6	3	10	4	3	5			
		95.750	6	3	10	4	3	5			
19.000	29.500	79.750	6	3	10	4	3	5			
		83.750	6	3	10	4	3	5			
		87.750	6	3	10	4	3	5			
		91.750	6	3	10	4	3	5			
		95.750	6	3	10	4	3	5			
21.750	31.500	79.750	6	3	10	4	3	5			
		83.750	6	3	10	4	3	5			
		87.750	6	3	10	4	3	5			
		91.750	6	3	10	4	3	5			
		95.750	6	3	10	4	3	5			
27.750	33.500	79.750	6	3	8	4	3	5			
		83.750	6	3	8	4	3	5			
		87.750	6	3	10	4	3	5			
		91.750	6	3	10	4	3	5			
		95.750	6	3	10	4	3	5			
36.125	35.500	79.750	5	3	8	4	3	5			
		83.750	6	3	8	4	3	5			
		87.750	6	3	8	4	3	5			
		91.750	6	3	8	4	3	5			
		95.750	6	3	8	4	3	5			
36.750	37.500	79.750	5	3	8	4	3	3			
		83.750	5	3	8	4	3	3			
		87.750	6	3	8	4	3	5			
		91.750	6	3	8	4	3	5			
		95.750	6	3	8	4	3	5			

ANCHOR QUANTITIES FOR THE DOOR AND SIDE LITE TO BE DETERMINED INDEPENDENTLY.

**TYP. ELEVATION OF OXO CONFIGURATION**

(NOT AVAILABLE WITH REINFORCEMENT)

**LOAD ZONES FOR OXO CONFIGURATION****Design Pressure**

Reinforced:	N/A
Unreinforced:	See Sheet 2, Tables 3 & 4

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-0504-02
Expiration Date 3/2/2022
A. Lynn Miller, P.E.
Member - Florida Professional Engineer

F) NEW SHEET COMBINING SIZE
ELEVATIONS, ZONE ELEVATIONS
AND ANCHOR TABLES. - JR -
04/10/17

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

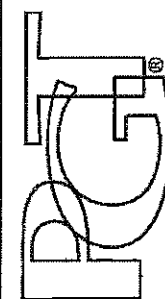
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Date 04/04/12

By JENS ROSOWSKI

No. 11005-2

Rev.



CERT. OF AUTH. #29296

ALUM. FRENCH DOOR & SIDE LITES, NI

OXO DETAILS

FD-101 NI

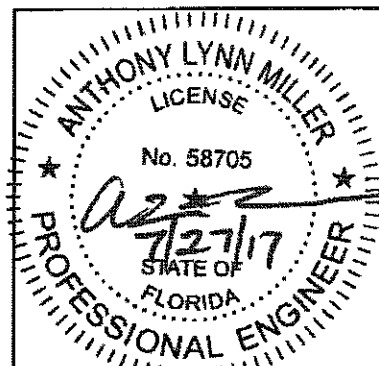
Scale

Sheet

11 OF 15

DWG

No.



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

NOTES:

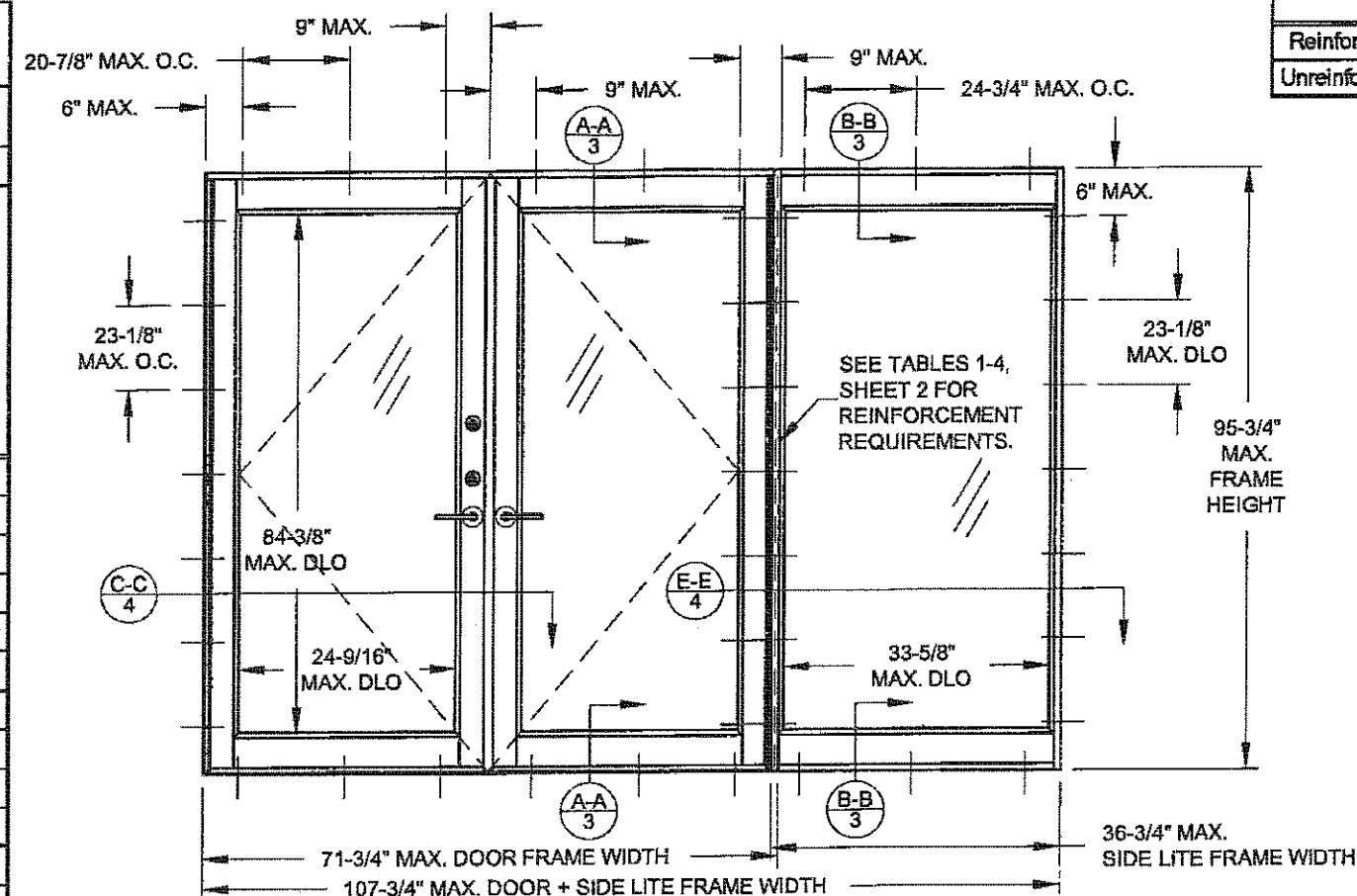
- 1) SEE SHEET 1 FOR GLASS AND ANCHOR TYPE DESCRIPTIONS.
- 2) DOORS MAY BE LEFT OR RIGHT-HANDED.
- 3) ANCHOR QUANTITIES ARE BASED ON SPACING AS FOLLOWS
(4" MIN. O.C. FOR CONCRETE, 4" MIN. O.C. FOR CMU):
JAMBS (ALL): 13-1/4" MAX. FROM CORNERS AND 23-1/8" MAX. O.C.
HEAD & SILL OF DOORS: 6" MAX. FROM CORNERS, 9" MAX. FROM ASTRAGAL CENTERS AND 20-7/8" MAX. O.C.
HEAD & SILL OF SIDE LITES: 6" MAX. FROM CORNERS AND 24-3/4" MAX. O.C.
- 4) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.
- 5) FOR ANCHORAGE INSTALLATION DETAILS SEE SHEETS 14 & 15.
- 6) CONFIGURATIONS WHERE THE DOOR LOCKSTILE ABUTS A SIDE LITE ARE NOT AVAILABLE WITH REINFORCEMENT.
- 7) SIDE LITE OVERLAPS DOOR BY 3/4" ONCE ASSEMBLED.

TABLE 10:

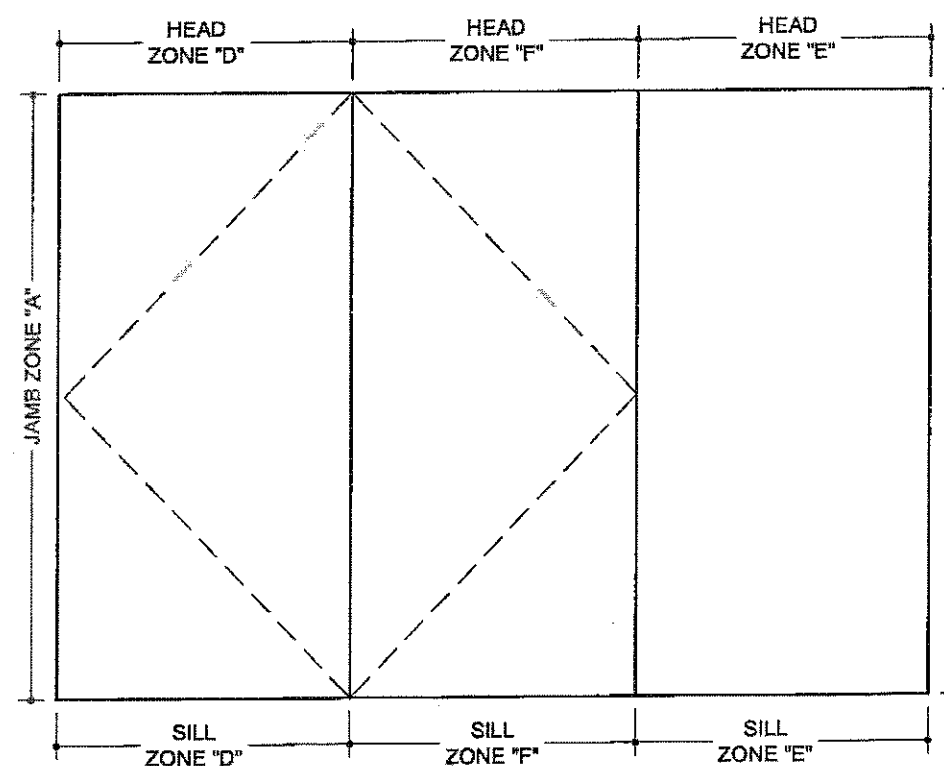
XXO & OXX DOORS, GLASS TYPES A & B

ANCHOR TYPE & SUBSTRATE			2,3, WOOD 3 ALUM					1,2, CONCRETE				
			LOAD ZONES									
MAX SIDE LITE FRAME WIDTH	MAX XX DOOR FRAME WIDTH	MAX FRAME HEIGHT	X - JAMB "A"	O - JAMB "B"	O - HEAD & SILL "E"	XX - HEAD & SILL "D"	XX - HEAD & SILL "F"	X - JAMB "A"	O - JAMB "B"	O - HEAD & SILL "E"	XX - HEAD & SILL "D"	XX - HEAD & SILL "F"
10.750	47.750	79.750	7	4	3	5	8	4	4	2	3	5
		83.750	7	5	3	4	7	4	4	2	3	5
		87.750	7	5	3	4	7	4	4	2	3	5
		91.750	7	5	3	4	7	4	4	2	3	5
		95.750	7	5	3	4	7	4	4	2	3	5
12.750	51.750	79.750	7	5	3	5	8	4	4	2	3	5
		83.750	7	5	3	5	8	4	4	2	3	5
		87.750	7	5	3	4	7	4	4	2	3	5
		91.750	7	6	3	4	7	4	4	3	3	5
		95.750	7	6	3	4	7	4	4	3	3	5
19.000	55.750	79.750	7	6	3	5	8	4	4	3	3	5
		83.750	7	6	3	5	8	4	4	3	3	5
		87.750	7	6	3	5	8	4	4	3	3	5
		91.750	7	6	3	5	8	4	4	3	3	5
		95.750	7	6	3	4	7	4	4	3	3	5
21.750	59.750	79.750	7	6	3	5	8	4	4	3	3	5
		83.750	7	6	3	5	8	4	4	3	3	5
		87.750	7	6	3	5	8	4	4	3	3	5
		91.750	7	6	3	5	8	4	4	3	3	5
		95.750	7	6	3	5	8	4	4	3	3	5
27.750	63.750	79.750	6	6	3	5	8	4	4	3	3	5
		83.750	6	6	3	5	8	4	4	3	3	5
		87.750	7	6	3	5	8	4	4	3	3	5
		91.750	7	6	3	5	8	4	4	3	3	5
		95.750	7	6	3	5	8	4	4	3	3	5
36.125	67.750	79.750	6	5	3	5	8	4	4	3	3	3
		83.750	6	6	3	5	8	4	4	3	3	5
		87.750	6	6	3	5	8	4	4	3	3	5
		91.750	6	6	3	5	8	4	4	3	3	5
		95.750	6	6	3	5	8	4	4	3	3	5
36.750	71.750	79.750	5	5	3	5	8	4	4	3	3	3
		83.750	6	5	3	5	8	4	4	3	3	3
		87.750	6	6	3	5	8	4	4	3	3	5
		91.750	6	6	3	5	8	4	4	3	3	5
		95.750	6	6	3	5	8	4	4	3	3	5

ANCHOR QUANTITIES FOR THE DOOR AND SIDE LITE TO BE DETERMINED INDEPENDENTLY.



TYP. ELEVATION OF XXO CONFIGURATION
(OXX SIMILAR)



LOAD ZONES FOR XXO CONFIGURATION
(OXX SIMILAR)

Design Pressure

Reinforced:	See Sheet 2, Tables 1 & 2
Unreinforced:	See Sheet 2, Tables 3 & 4

NOTES:

- 1) SEE SHEET 1 FOR GLASS AND ANCHOR TYPE DESCRIPTIONS.
- 2) DOORS MAY BE LEFT OR RIGHT-HANDED.
- 3) ANCHOR QUANTITIES ARE BASED ON SPACING AS FOLLOWS (4" MIN. O.C. FOR CONCRETE, 4" MIN. O.C. FOR CMU):
JAMBS (ALL): 13-1/4" MAX. FROM CORNERS AND 23-1/8" MAX. O.C.
HEAD & SILL OF DOORS: 6" MAX. FROM CORNERS, 9" MAX. FROM ASTRAGAL CENTERS AND 20-7/8" MAX. O.C.
HEAD & SILL OF SIDE LITES: 6" MAX. FROM CORNERS AND 24-3/4" MAX. O.C.
- 4) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.
- 5) FOR ANCHORAGE INSTALLATION DETAILS SEE SHEETS 14 & 15.
- 6) CONFIGURATIONS WHERE THE DOOR LOCKSTILE ABUTS A SIDE LITE ARE NOT AVAILABLE WITH REINFORCEMENT.
- 7) SIDE LITE OVERLAPS DOOR BY 3/4" ONCE ASSEMBLED.

PRODUCT REVIEW
as complying with the Florida
Building Code
Acceptance No. 17-0504-02
Expiration Date 8/31/2022
A. Lynn Miller
File as Product Control

Revision
F) NEW SHEET COMBINING SIZE
ELEVATIONS, ZONE ELEVATIONS
AND ANCHOR TABLES. - JR -
04/10/17

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

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1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	04/04/12	JENS ROSOWSKI	Rev.	F
ALUM. FRENCH DOOR & SIDE LITES, NI	Date	By	No.	11005-2
XXO & OXX DETAILS	Drawn	12 OF 15	DWG	
FD-101 NI	Scale	12 OF 15	Sheet	
	NTS	12 OF 15	Sheet	
	NTS	12 OF 15	Sheet	

PGT
CERT. OF AUTH. #29286
ALUM. FRENCH DOOR & SIDE LITES, NI

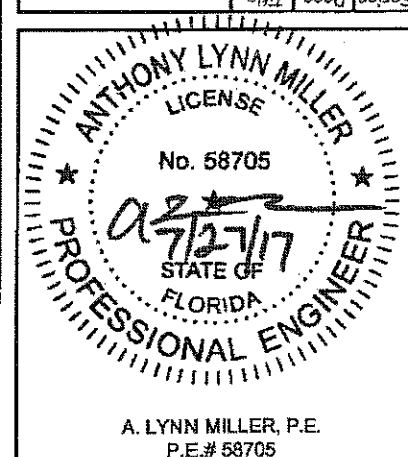
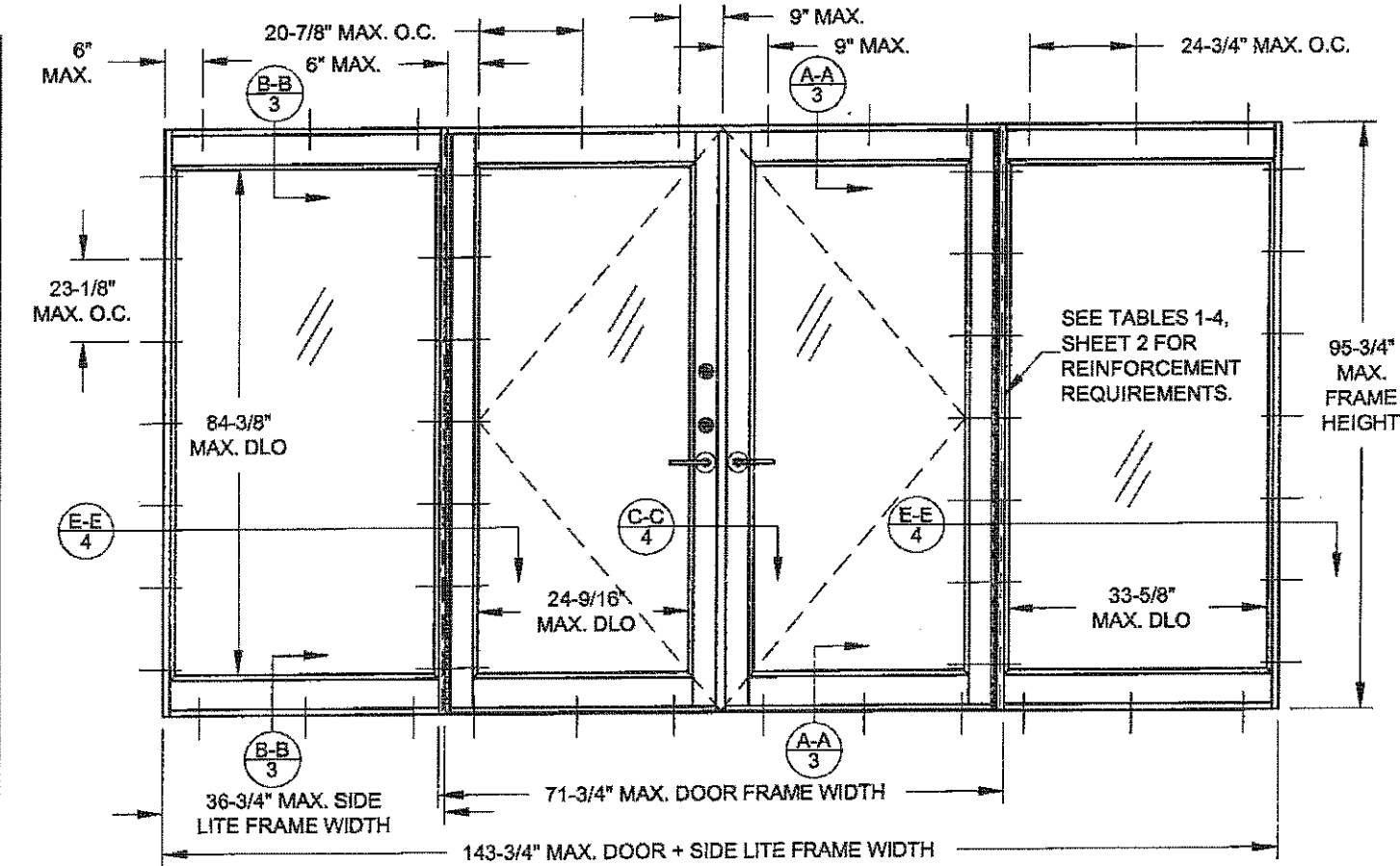


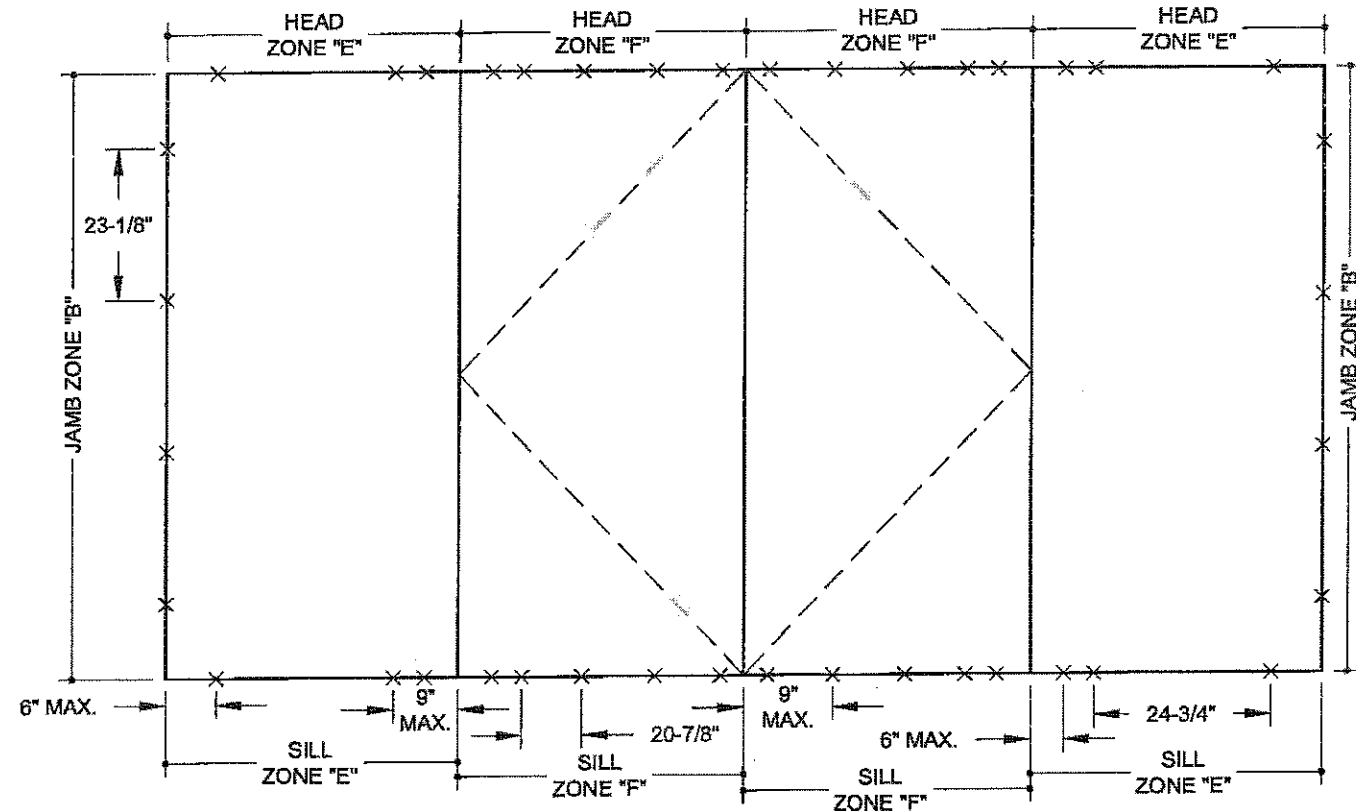
TABLE 11:

OXXO DOORS, GLASS TYPES A & B											
ANCHOR TYPE & SUBSTRATE			2,3, WOOD 3 ALUM			1,2, CONCRETE					
			LOAD ZONES								
			O - JAMB "B"	O - HEAD & SILL "E"	XX - HEAD & SILL "F"	O - JAMB "B"	O - HEAD & SILL "E"	XX - HEAD & SILL "F"			
MAX SIDE LITE FRAME WIDTH	MAX XX DOOR FRAME WIDTH	MAX FRAME HEIGHT	10.750	47.750	79.750	4	3	8	4	2	5
		83.750			5	3	7	4	2	5	
		87.750			5	3	7	4	2	5	
		91.750			5	3	7	4	2	5	
		95.750			5	3	7	4	2	5	
12.750	51.750	79.750	5	3	8	4	2	5			
		83.750	5	3	8	4	2	5			
		87.750	5	3	7	4	2	5			
		91.750	6	3	7	4	3	5			
		95.750	6	3	7	4	3	5			
19.000	55.750	79.750	6	3	8	4	3	5			
		83.750	6	3	8	4	3	5			
		87.750	6	3	8	4	3	5			
		91.750	6	3	8	4	3	5			
		95.750	6	3	7	4	3	5			
21.750	59.750	79.750	6	3	8	4	3	5			
		83.750	6	3	8	4	3	5			
		87.750	6	3	8	4	3	5			
		91.750	6	3	8	4	3	5			
		95.750	6	3	8	4	3	5			
27.750	63.750	79.750	6	3	8	4	3	5			
		83.750	6	3	8	4	3	5			
		87.750	6	3	8	4	3	5			
		91.750	6	3	8	4	3	5			
		95.750	6	3	8	4	3	5			
36.125	67.750	79.750	5	3	8	4	3	3			
		83.750	6	3	8	4	3	5			
		87.750	6	3	8	4	3	5			
		91.750	6	3	8	4	3	5			
		95.750	6	3	8	4	3	5			
36.750	71.750	79.750	5	3	8	4	3	3			
		83.750	5	3	8	4	3	3			
		87.750	6	3	8	4	3	5			
		91.750	6	3	8	4	3	5			
		95.750	6	3	8	4	3	5			

ANCHOR QUANTITIES FOR THE DOOR AND SIDE LITE TO BE DETERMINED INDEPENDENTLY.



TYP. ELEVATION OF OXXO CONFIGURATION



LOAD ZONES FOR OXXO CONFIGURATION & ANCHORAGE LAYOUT USED IN EXAMPLE

Design Pressure	
Reinforced:	See Sheet 2, Tables 1 & 2
Unreinforced:	See Sheet 2, Tables 3 & 4

NOTES:

- 1) SEE SHEET 1 FOR GLASS AND ANCHOR TYPE DESCRIPTIONS.
- 2) DOORS MAY BE LEFT OR RIGHT-HANDED.
- 3) ANCHOR QUANTITIES ARE BASED ON SPACING AS FOLLOWS (4" MIN. O.C. FOR CONCRETE, 4" MIN. O.C. FOR CMU):
JAMBS (ALL): 13-1/4" MAX. FROM CORNERS AND 23-1/8" MAX. O.C.
HEAD & SILL OF DOORS: 6" MAX. FROM CORNERS, 9" MAX. FROM ASTRAGAL CENTERS AND 20-7/8" MAX. O.C.
HEAD & SILL OF SIDE LITES: 6" MAX. FROM CORNERS AND 24-3/4" MAX. O.C.
- 4) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.
- 5) FOR ANCHORAGE INSTALLATION DETAILS SEE SHEETS 14 & 15.
- 6) CONFIGURATIONS WHERE THE DOOR LOCKSTILE ABUTS A SIDE LITE ARE NOT AVAILABLE WITH REINFORCEMENT.
- 7) SIDE LITE OVERLAPS DOOR BY 3/4" ONCE ASSEMBLED.

EXAMPLE:
OXXO WITH GLASS TYPE B,
71-3/4" WIDE X 95-3/4" HIGH DOUBLE DOOR
WITH (2) 36-3/4" X 95-3/4" SIDE LITES,
ANCHOR TYPE 2 INTO CONCRETE,
OVERALL DESIGN PRESSURE = +65 / -65 PSF,
SEE EXAMPLE 6, SHEET 2 FOR DP EXAMPLE

DOOR ANCHOR REQUIREMENTS FROM TABLE 11:
4 ANCHORS @ EACH SIDE LITE JAMB
5 ANCHORS EACH DOOR PANEL @ HEAD
5 ANCHORS EACH DOOR PANEL @ SILL
3 ANCHORS EACH SIDE LITE @ HEAD
3 ANCHORS EACH SIDE LITE @ SILL

SEE CIRCLED VALUES ON TABLE 11.
X = DENOTES ANCHOR LOCATION.

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B. L. Chang, L.L. Chang
B&B Door Product Control

F) NEW SHEET COMBINING SIZE
ELEVATIONS, ZONE ELEVATIONS
AND ANCHOR TABLES. - JR -
04/10/17

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N. VENICE, FL 34275
(941)-480-1600

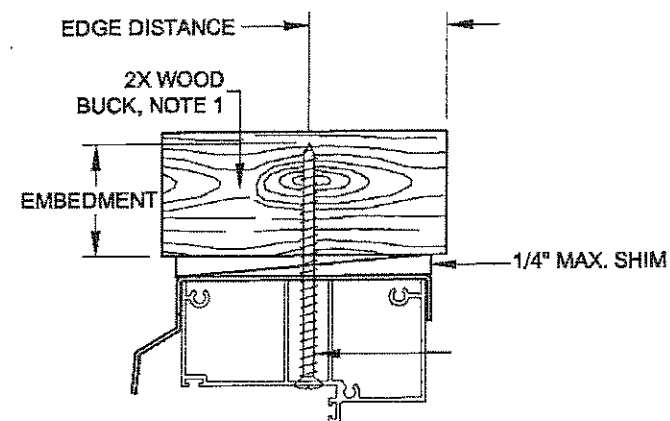
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ALUM. FRENCH DOOR & SIDE LITES, NI

DATE 04/04/12
BY JENS ROSOWSKI
OXXO DETAILS

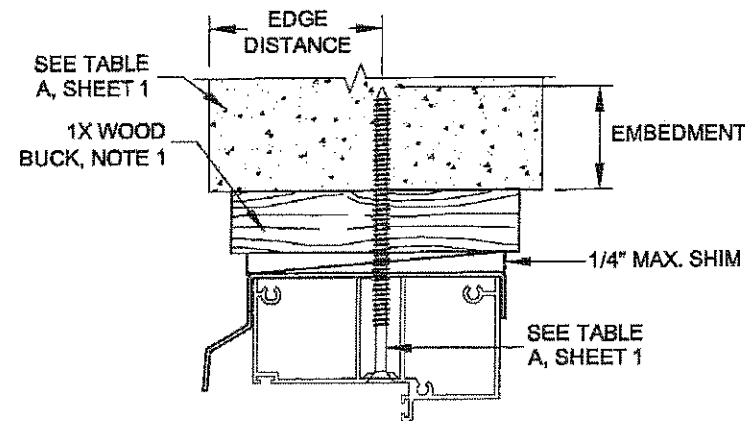
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11005-2
13 OF 15
NTS
FD-101 NI

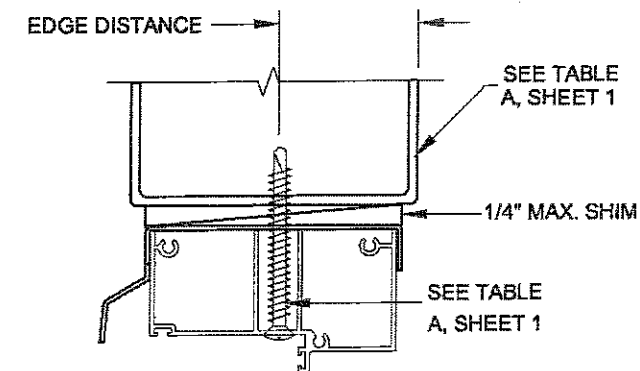
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



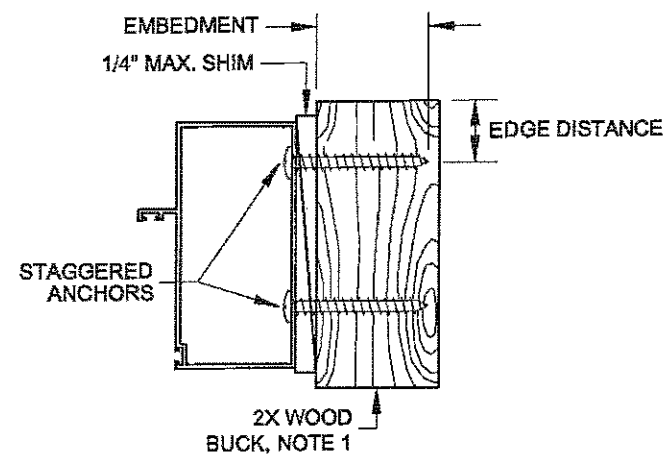
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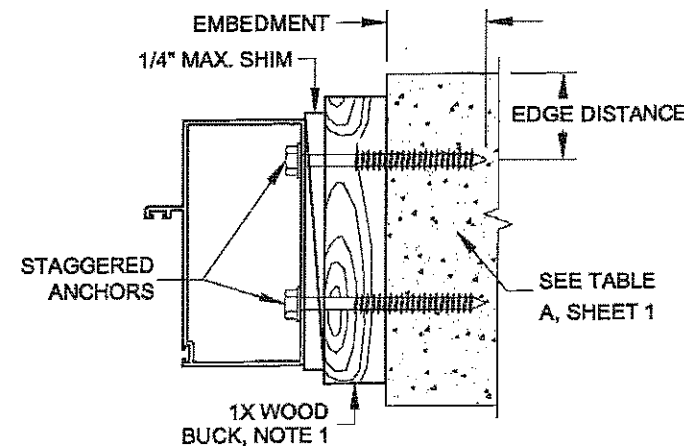
DOOR HEAD (CONC)



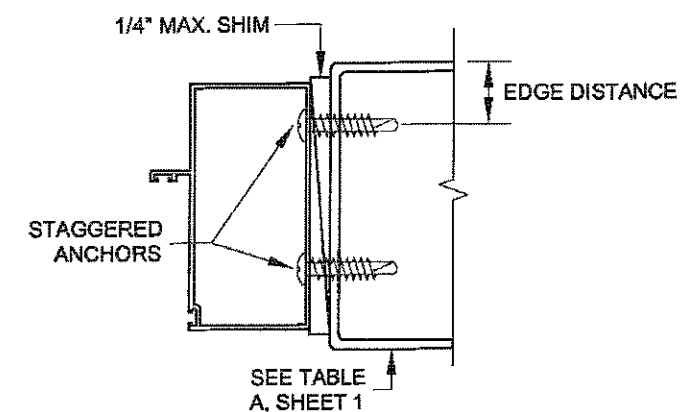
DOOR HEAD (ALUMINUM)



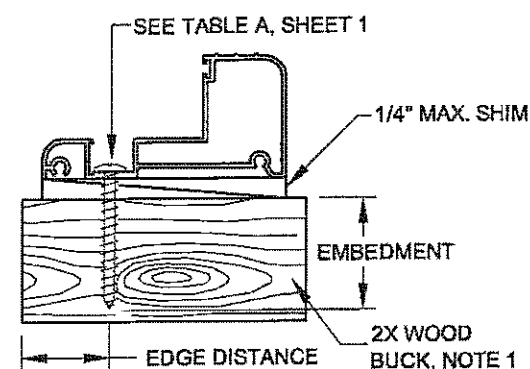
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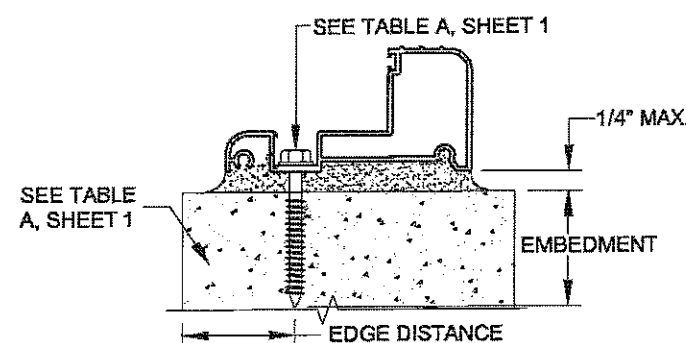
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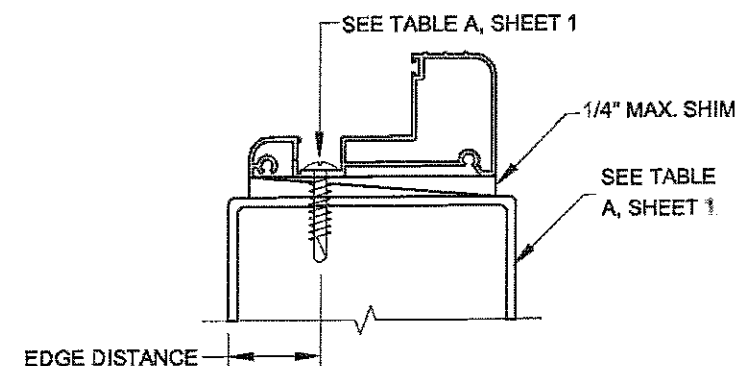
DOOR JAMB (ALUMINUM)



DOOR SILL (WOOD)



DOOR SILL (CONC)



DOOR SILL (ALUMINUM)

1. 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 OR CMU. 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).

2. IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT (3350 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. IF SUBSTRATE IS WOOD, 30# FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

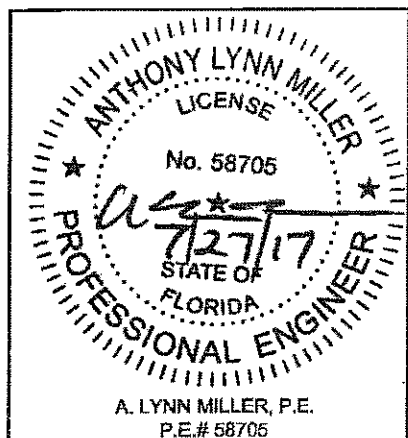
3. TYP. ANCHOR TYPE, EMBEDMENT & EDGE DISTANCE PER SUBSTRATE, SEE TABLE A, SHEET 1..

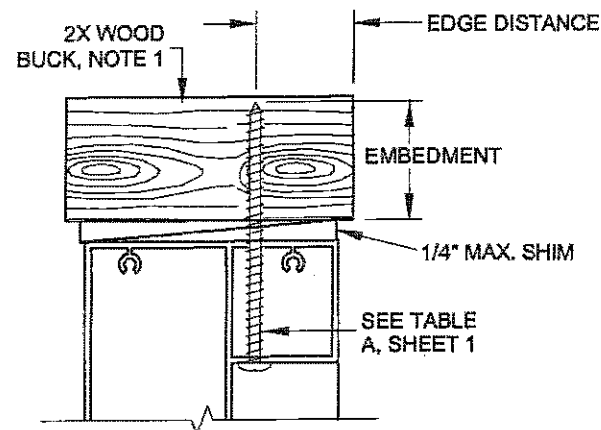
← EXTERIOR INTERIOR →
(ALL HEAD & SILL SECTIONS)

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Product Control

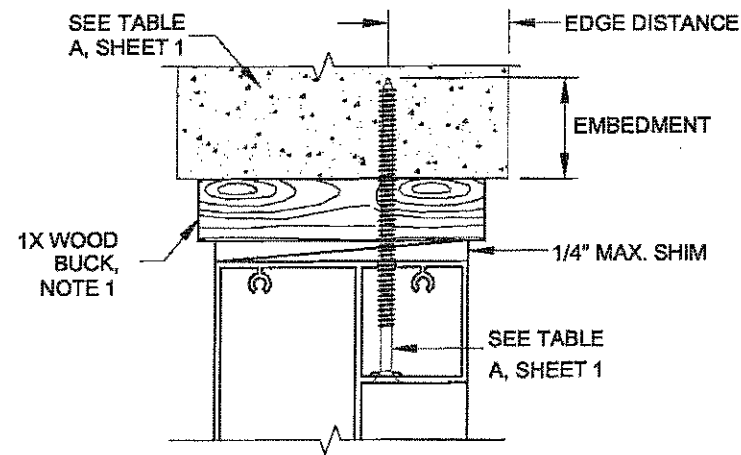
F) CLARIFIED DETAILS, ADDED
ALUMINUM. - JR - 04/10/17

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				No.	11005-2
				DWG	14 OF 15
				Sheet	NTS
PGT CERT. OF AUTH. #29296 ALUM. FRENCH DOOR & SIDE LITES, NI	DOOR INSTALL DETAILS	FD-101 NI	Scale	Title	Series

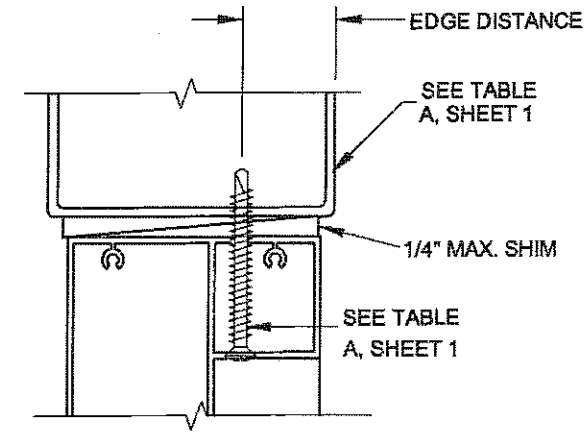




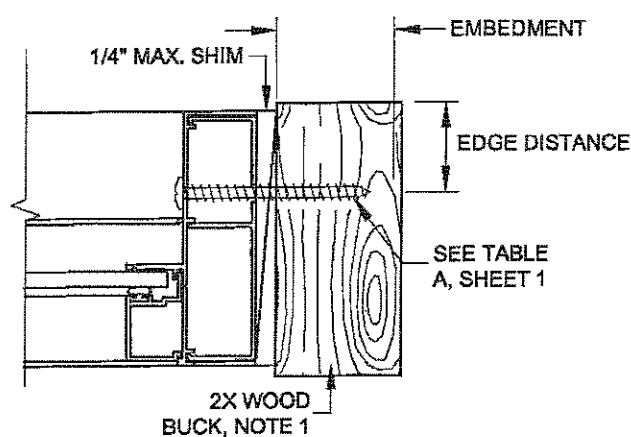
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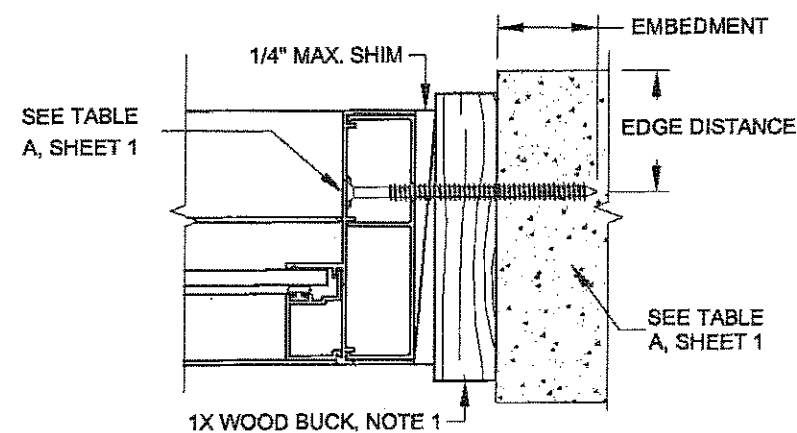
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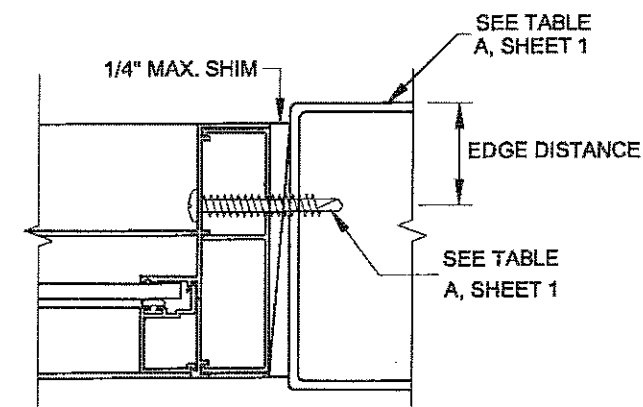
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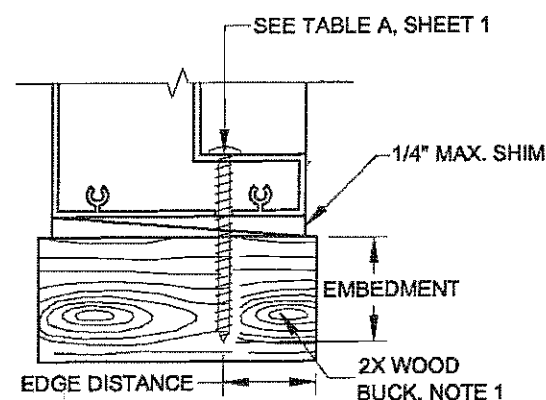
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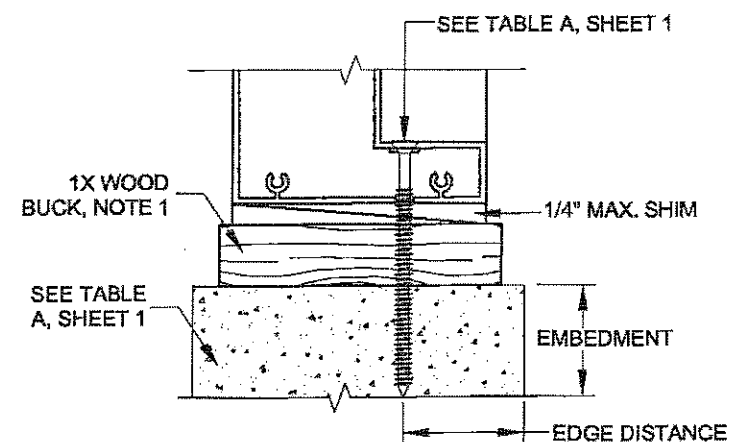
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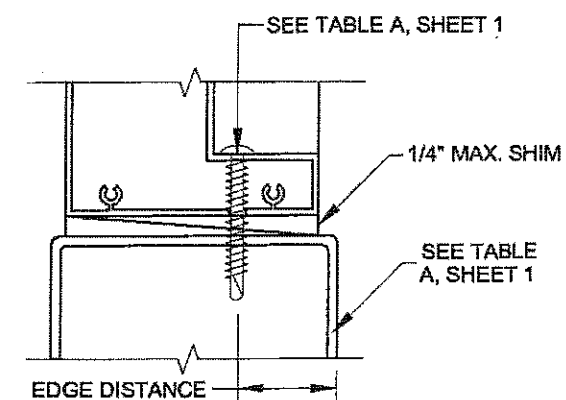
SIDE LITE JAMB (ALUMINUM)



SIDE LITE SILL (WOOD)



SIDE LITE SILL (CONC)



SIDE LITE SILL (ALUMINUM)

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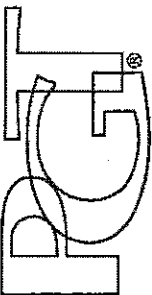
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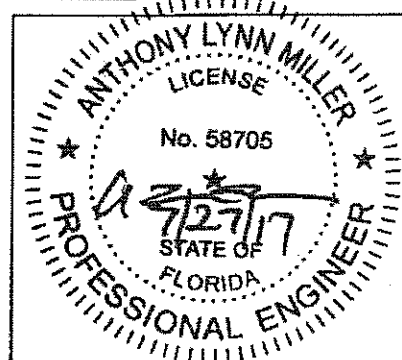
3. TYP. ANCHOR TYPE, EMBEDMENT & EDGE DISTANCE PER SUBSTRATE, SEE TABLE A, SHEET 1..

← EXTERIOR INTERIOR →
(ALL HEAD & SILL SECTIONS)

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A. Lynn Miller, P.E.
Member, Door Product Control

Revision F) CLARIFIED DETAILS, ADDED
ALUMINUM - JR - 04/10/17

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Series	FD-101 NI	Date	04/04/12
Desc.	SIDE LITE INSTALL DETAILS	By	JENS ROSOWSKI
Scale	NTS	DWG No.	11005-2
Sheet	15 OF 15	Rev.	F



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