# Engineering Evaluation Report #9950-02022026

**Prepared by:**
A. Lynn Miller, P.E.
1070 Technology Dr.
N. Venice, FL 34275
(941) 480-1600
Registration Number: #29296

**Manufacturer:**
WinDoor LLC
104 Triple Diamond Blvd.
North Venice, FL 34275
(833) 554-5432

**Product Description:**
FD9950A Series Inswing & Outswing Aluminum LMI HVHZ French Door– FL29783

**Compliance:**
The above-mentioned product has been evaluated for compliance with the requirements of the Florida Department of Business and Professional Regulation for Statewide Acceptance per Rule 61 G20-3.005 method 1(d). The product listed herein complies with the requirements of the current Florida Building Code.

**Supporting Technical Documentation:**
1. Approval Document: drawing number FD9950LMI - FPA, signed and sealed by A. Lynn Miller, P.E.
2. Test Report QAI NOK-0073, NOK-0082, NOK-0083, NOK-0084, 22-1004, NOK-0011, NOK-0012, NOK-0099, NOK-0102, FTL-10944, 20-1044, 20-1058, 20-2216, signed and sealed by Idalmis Ortega, P.E., QAI Laboratories, Nokomis, FL. TAS 201-94, 202-94 & 203-94
3. Calculations signed and sealed by A. Lynn Miller, P.E.

**Limitations and Conditions of use:**
- Units must be glazed per ASTM E1300-04/09, refer to approval document for glazing details.
- This product is rated to be used in the HVHZ.
- This product is impact resistant and does not require impact protection in wind borne debris regions.
- Units must be installed in accordance with the Approval Document.



# SERIES FD9950A, IMPACT-RESISTANT, ALUMINUM, OUTSWING/INSWING FRENCH DOOR WITH SIDELITE & PICTURE WINDOW

FLORIDA PRODUCT APPROVAL #25781

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

2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

3) FOR MASONRY APPLICATIONS, USE ONLY APPROVED MASONRY ANCHORS. MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, ASTM C90 CONCRETE MASONRY UNITS (CMU'S) OF NORMAL WEIGHT AND OF COMPRESSIVE STRENGTH OF MIN. 1.9 KSI AND CONCRETE WITH MIN. KSI PER ANCHOR TYPE.

4) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

5) IF SILL IS TIGHT TO SUBSTRATE, GROUT IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT AT 3.8 KSI MIN. PER ASTM C1107, (DONE BY OTHERS). MAX. 1/8" SHIM SPACE FOR GROUT WHICH 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, COMPLYING WITH THE FBC.

6) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE THE EMBEDMENT SHOWN ON TABLE 1, THIS SHEET. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

7) MAX. 1/4" SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE DOOR.

8) DESIGN PRESSURES:
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL AND CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL AND CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.

9) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (INCLUDING ADOPTED STANDARDS) FOR CORROSION RESISTANCE.

10) SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER THE FLORIDA BUILDING CODE.

NOTE: MINIMUM FRAME WIDTH REQUIRED TO MEET 20" CLEAR EGRESS OPENING:
SINGLE DOORS = 35-1/4"
DOUBLE DOORS = 71-1/8"

Table 1

| Anchor Group | Anchor Type | Frame Member | Substrate | Min. Edge Distance | Min. Embedment or Metal Thickness |
|---|---|---|---|---|---|
| A | #14 Steel SMS (Gr. 5) or #10 SS SMS | Head, Sill & Jamb | Southern Pine (SG = 0.55) | 5/8" | 1-3/8" |
| B | #14 Steel SMS (Gr. 5) or #10 SS SMS | Head, Sill & Jamb | 6063-T6 Aluminum | 3/8" | 0.500" |
| | | | A36 Steel | 3/8" | 0.063" |
| | | | Steel Stud, Gr. 33 | 3/8" | 0.060" (16 Ga) |
| C | 1/4" DekWalt Ultracon+® | Head & Sill | Concrete (min. 3 ksi) | 1-3/4" | 1-3/8" |
| | | Jamb | Hollow/Filled CMU (ASTM C90) (or 3k Conc.) | 2-1/2" | 1-1/4" |
| | 1/4" 410 SS Elco Crete/Tech® | Head & Sill | Concrete (min. 3.35ksi) | 1-3/4" | 1-3/4" |
| | | Jamb | Hollow/Filled CMU (ASTM C90) (or 3.35k Conc.) | 2-1/2" | 1-1/4" |
| D | 1/4" DekWalt Ultracon+® | Head & Sill | Concrete (min. 3 ksi) | 2-1/2" | 1-5/8" |
| | | Jamb | Hollow/Filled CMU (ASTM C90) (or 3k Conc.) | 2-1/2" | 1-1/4" |
| | 1/4" 410 SS Elco Crete/Tech® | Head & Sill | Concrete (min. 3.35 ksi) | 2-1/2" | 1-3/4" |
| | | Jamb | Hollow/Filled CMU (ASTM C90) (or 3.35k Conc.) | 2-1/2" | 1-1/4" |
| | 9/16" DekWalt Ultracon | Head & Sill | Concrete (min. 3 ksi) | 2-1/2" | 2" |
| | | Jamb | Hollow/Filled CMU (ASTM C90) (or 3.5k Conc.) | 3-1/8" | 1-1/4" |

1) ALL ANCHOR HEAD TYPES ARE APPLICABLE. FLATHEAD RECOMMENDED WITH LOW PROFILE SILL.
2) MIN. OF 3 THREADS BEYOND METAL SUBSTRATE.
3) METAL SUBSTRATE TO MEET MIN. STRENGTH, IMPOSED DEAD LOADS AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
4) THIS TABLE FOR DOORS AND MULLIONS ONLY. SEE TABLE 21 FOR SIDELITE ANCHORS.

INSTRUCTIONS:

1) DETERMINE THE DESIGN PRESSURE REQUIREMENT (LBS/FT²) FOR THE OPENING USING THE ASCE 7 STANDARD.

2) DETERMINE YOUR ANCHOR GROUP FROM TABLE 1, THIS SHEET FOR DOORS AND TABLE 21, SHEET 11 FOR SIDELITES. DETERMINE YOUR GLASS TYPE FROM SHEET 15.

3) DETERMINE THE DESIGN PRESSURE OF EACH INDIVIDUAL PRODUCT (DOOR, SIDELITE, MULLION) IN YOUR CONFIGURATION USING THE TABLES. THE LOWEST OF THESE DESIGN PRESSURES SHALL CONTROL THE ENTIRE SYSTEM. THIS DESIGN PRESSURE NEEDS TO BE GREATER THAN OR EQUAL TO THE OPENING'S REQUIRED DESIGN PRESSURE FROM STEP 1.

4) ANCHOR LOCATIONS AND SPACING ARE SHOWN ON THE ELEVATIONS ON SHEETS 2-7, 9, & 10. SHEETS 18-24 SHOW INSTALLATION CROSS-SECTION DETAILS.

5) SEE THE EXAMPLES ON SHEET 17.

DESIGN PRESSURE RATING
SEE SHEETS 2-5 (SINGLE DOOR)
SEE SHEETS 6 & 7 (DOUBLE DOOR)

IMPACT RATING
RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE

GUIDE TO SHEETS


| | |
|---|---|
| GENERAL NOTES | 1 |
| ELEVATION & DR. 0 | 2-5 |
| ELEVATION & DR. AA | 6-7 |
| ANCHOR CLUSTER QTY | 8 |
| SIDELITE ELEVATIONS | 9 |
| SL ELEV. & MULL TABLES | 10 |
| SL DP & ANCHORS | 11-14 |
| GLAZING DETAILS | 15 |
| ANCHOR PATTERNS | 16 |
| JAMB ANCHOR EXAMPLES | 17 |
| INSTALLATION DETAILS | 18-24 |
| EXTRUSIONS & BOM | 25 |


| | |
|---|---|
| ADD CHANGES THIS SHEET | III |
| UPDATE | II |
| ADD - REVISED | I |
| ORIGINAL - FPA | |

WINDOOR
TYPICAL DIMENSIONS
W: 72" H: 96"
ALUMINUM IS & OS FRENCH DOOR
GEN. NOTES & ANCHOR TABLE
FD9950A
1 OF 25

ANTHONY LYNN MILLER
LICENSE
No. 56705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 56705

# OUTSWING X DOORS WITH STD. THRESHOLD ONLY

TABLE 2

**Design Pressures (PSF) for Single Doors (X)**

| Glass Type: 1 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Frame Height | Overall (X) Frame Width | | | | | | |
| | 26" | 32" | 37-1/16" | 40-13/16" | 44-15/16" | 49-7/8" | 53-1/2" |
| 72" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 80" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 84" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 96" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 102-11/16" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 108" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 120" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 132" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 144" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |

TABLE 3

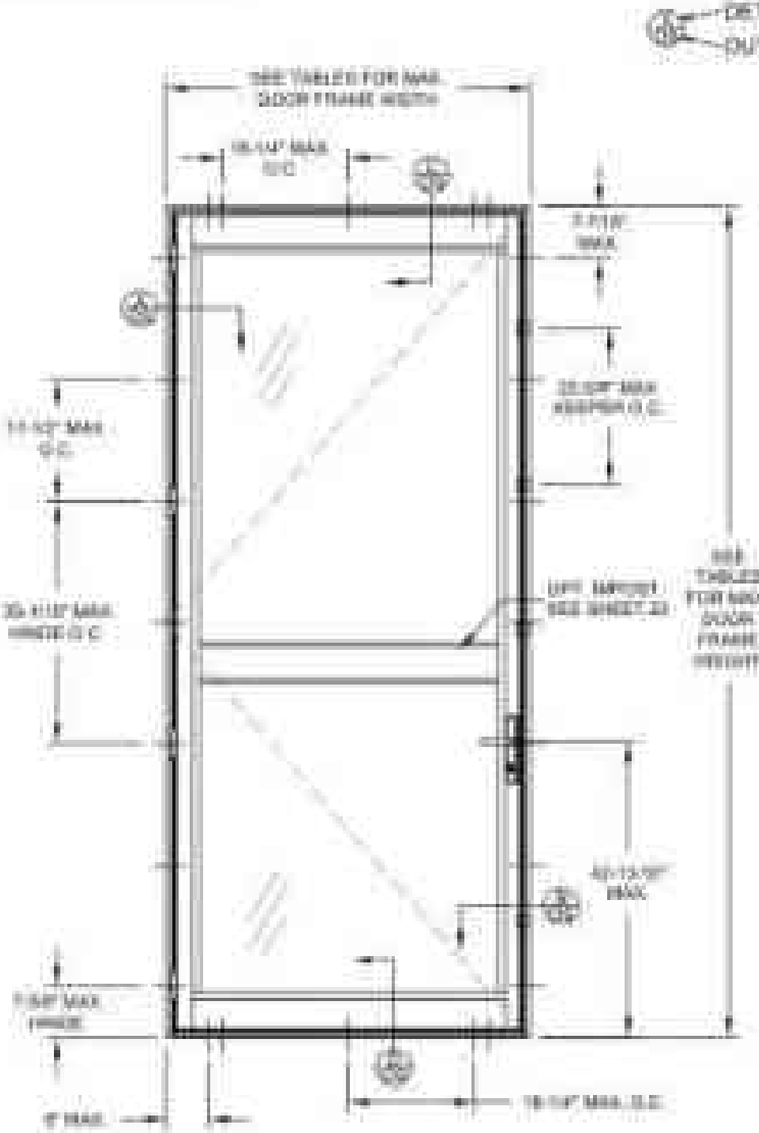
**Design Pressures (PSF) for Single Doors (X)**

| Glass Type: 2 & 3 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Frame Height | Overall (X) Frame Width | | | | | | |
| | 26" | 32" | 37-1/16" | 40-13/16" | 44-15/16" | 49-7/8" | 53-1/2" |
| 72" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 80" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 84" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 96" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 102-11/16" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 108" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 120" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 132" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 144" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |

TABLE 4

**Design Pressures (PSF) for Single Doors (X)**

| Glass Type: 4, 5, & 6 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Frame Height | Overall (X) Frame Width | | | | | | |
| | 26" | 32" | 37-1/16" | 40-13/16" | 44-15/16" | 49-7/8" | 53-1/2" |
| 72" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 80" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 84" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 96" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 102-11/16" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 108" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 120" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 132" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |
| 144" | +70 / -70 | +69 / -70 | +63 / -70 | +65 / -70 | +58 / -70 | +52 / -70 | +50 / -70 |




TYP. ELEVATION

NOTES:

1) FOR SIZES NOT SHOWN ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
2) SEE SHEET 15 FOR GLASS DESCRIPTIONS.
3) GLC WIDTH = FRAME WIDTH - 3-1/16".
4) GLC HEIGHT = FRAME HEIGHT - 12 3/8"

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| III | 12/31/08 | ADDED OWT, MROST - OX | | | | | |
| II | | | | | | | |
| I | 4/29/04 | ORIGINAL - FPA | | | | | |
| | | | | | | | |

ALUMINUM IS & OS FRENCH DOOR SYSTEM
ELEVATION & DP
FD5000
2 OF 24

PROJECT DESIGNED TO COMPLY WITH THE FOLLOWING:
FBC 2007 RESIDENTIAL
FBC 2007 ENERGY CONSERVATION
ASCE 7-05
ASTM E1886-05
ASTM E1996-04
TAS 201-94
TAS 202-94
TAS 203-94

PROJECT DESIGNED BY:
TAYLOR ENGINEERING, INC.
5370 BEE RIDGE ROAD
SUITE 403
SARASOTA, FL 34233
(941) 921-7913
FAX (941) 923-2381
CERTIFICATE OF AUTHORIZATION #28164

ANTHONY LYNN MILLER
LICENSE
No. 56705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E. # 56705

# OUTSWING X DOORS WITH STD. THRESHOLD ONLY

TABLE 3

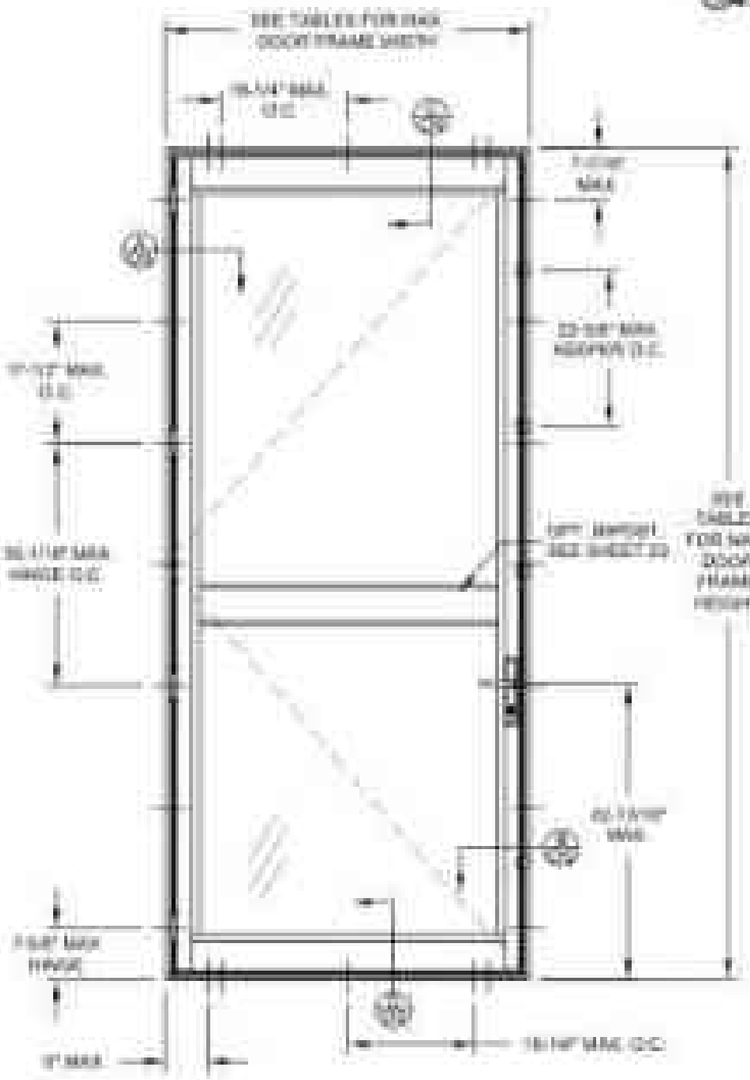
| Design Pressures (PSF) for Single Doors (X) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Glass Type: 7, 8, & 9 | | | | | | | |
| Frame Height | Overall (X) Frame Width | | | | | | |
| | 29" | 32" | 36" | 40" | 43-5/8" | 47-15/16" | 50-1/2" |
| 72" | +72 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -70 | +70 / -70 |
| 80" | +72 / -80 | +70 / -80 | +70 / -70 | +70 / -80 | +70 / -80 | +70 / -70 | +70 / -70 |
| 84" | +72 / -80 | +70 / -80 | +70 / -70 | +70 / -80 | +70 / -80 | +70 / -70 | +70 / -70 |
| 96" | +71 / -80 | +70 / -80 | +70 / -70 | +70 / -80 | +70 / -80 | +70 / -70 | +70 / -70 |
| 108" | +70 / -80 | +70 / -80 | +70 / -70 | +70 / -80 | +70 / -77.5 | +70 / -70 | +70 / -70 |
| 120" | +70 / -80 | +70 / -80 | +70 / -70 | +70 / -77 | +70 / -70 | +70 / -70 | +70 / -70 |
| 132" | +70 / -80 | +70 / +73.3 | +70 / -70 | +70 / -70 | +70 / -70 | +70 / -70 | |
| 144" | +70 / -70 | +70 / -70 | +70 / -70 | +70 / -70 | +70 / -70 | | |

TABLE 4

| Design Pressures (PSF) for Single Doors (X) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Glass Type: 10 & 11 | | | | | | | |
| Frame Height | Overall (X) Frame Width | | | | | | |
| | 29" | 32" | 36" | 40" | 43-5/8" | 47-15/16" | 50-1/2" |
| 72" | +70 / -80 | +70 / -80 | +70 / -70 | +70 / -80 | +70 / -80 | +70 / -70 | +70 / -70 |
| 80" | +70 / -80 | +70 / -80 | +70 / -70 | +70 / -80 | +70 / -80 | +70 / -70 | +70 / -70 |
| 84" | +70 / -80 | +70 / -80 | +70 / -70 | +70 / -80 | +70 / -80 | +70 / -70 | +70 / -70 |
| 96" | +70 / -80 | +70 / -80 | +70 / -70 | +70 / -80 | +70 / -80 | +70 / -70 | +70 / -70 |
| 108" | +70 / -80 | +70 / -80 | +70 / -70 | +70 / -80 | +70 / -77.5 | +70 / -70 | +70 / -70 |
| 120" | +70 / -80 | +70 / -80 | +70 / -70 | +70 / -77 | +70 / -70 | +70 / -70 | +70 / -70 |
| 132" | +70 / -80 | +70 / +73.3 | +70 / -70 | +70 / -70 | +70 / -70 | +70 / -70 | |

NOTES:

1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
2) SEE SHEET 10 FOR GLASS DESCRIPTIONS.
3) DLO WIDTH = FRAME WIDTH - 3 7/16"
4) DLO HEIGHT = FRAME HEIGHT - 13 3/8"




TYP. ELEVATION


ANTHONY LYNN MILLER
LICENSED
No. 56256
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E. # 56256


| | |
|---|---|
| ADDED OPT. IMPACT - OX | 12/21/16 |
| FL#35616.1 - FPA | 11/18/16 |
| C. WEAVER | |
| DRAWN | |
| ALUMINUM IG & OS FRENCH DOORS | |
| ELEVATION & DP | |
| FD35616 | 9 OF 36 |

# X DOORS, INSWING OR OUTSWING WITH STD. OR LOW PROFILE THRESHOLD

TABLE 1

**Design Pressures (PSF) for Single Doors (X)**

| Frame Height | Glass Type: 1<br>Overall (X) Frame Width | | | | | |
|---|---|---|---|---|---|---|
| | 24" | 32" | 37 5/8" | 40-13/16" | 44 7/8" | 47 5/8" |
| 72" | +53 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 80" | +53 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 84" | +53 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 96" | +53 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 108" | +53 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 114-1/4" | +53 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 120" | +53 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 132" | +53 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 144" | +53 / -69 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |

TABLE 2

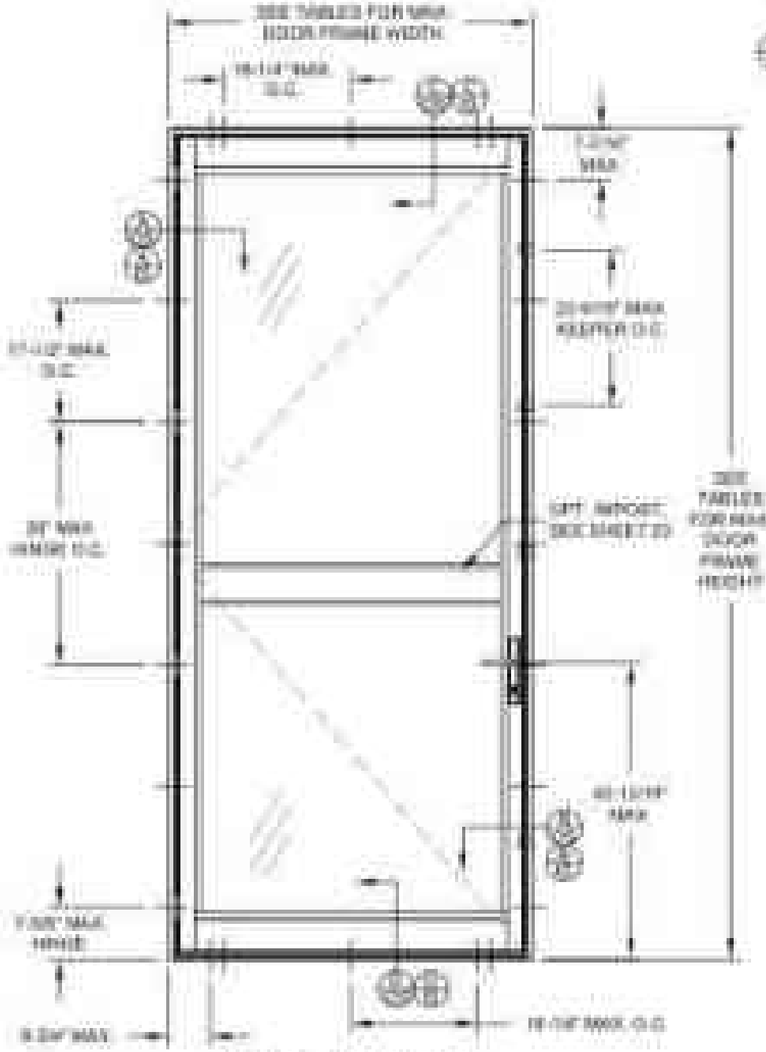
**Design Pressures (PSF) for Single Doors (X)**

| Frame Height | Glass Type: 2 & 3<br>Overall (X) Frame Width | | | | | |
|---|---|---|---|---|---|---|
| | 24" | 32" | 37 5/8" | 40-13/16" | 44 7/8" | 47 5/8" |
| 72" | +53 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 80" | +53 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 84" | +53 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 96" | +53 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 108" | +53 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 114-1/4" | +53 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 120" | +53 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 132" | +53 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 144" | +53 / -69 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |

TABLE 3

**Design Pressures (PGF) for Single Doors (X)**

| Frame Height | Glass Type: 4, 5, & 6<br>Overall (X) Frame Width | | | | | |
|---|---|---|---|---|---|---|
| | 24" | 32" | 37 5/8" | 40-13/16" | 44 7/8" | 47 5/8" |
| 72" | +52 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 80" | +52 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 84" | +52 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 96" | +52 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 108" | +52 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 114-1/4" | +52 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 120" | +52 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 132" | +52 / -70 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |
| 144" | +52 / -69 | +60 / -70 | +66 / -70 | +68 / -70 | +63 / -70 | +60 / -70 |




TYP. ELEVATION

DETAIL LETTER
OUTSWING, SEE SHEETS 18 & 19

DETAIL LETTER
INSWING, SEE SHEETS 20 & 21

NOTES:

1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
2) SEE SHEET 14 FOR GLASS DESCRIPTIONS.
3) OLD WIDTH = FRAME WIDTH - 4 7/8"
4) OLD HEIGHT = FRAME HEIGHT - 10 5/8" (STD. THRESHOLD)
5) OLD HEIGHT = FRAME HEIGHT - 10 7/8" (LOW PROFILE THRESHOLD)
6) INSWING DOORS AND ALL DOORS WITH LOW PROFILE THRESHOLD ARE NOT RATED FOR WATER INFILTRATION. IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIGURE 1, THE (-) DESIGN PRESSURES SHOWN IN THE TABLE MAY BE USED AND BOTH THRESHOLDS ARE ACCEPTABLE.

FIGURE 1




ADDED OHT, MPOST - DX

12/21/18

FL9988.1 - FPA

ALUMINUM IS OS FRENCH DOOR

X ELEVATION & DP

FD9988A

4 OF 32


ANTHONY LYNN MILLER
LICENSE
No. 56726
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 56726

# X DOORS, INSWING OR OUTSWING WITH STD. OR LOW PROFILE THRESHOLD

TABLE 10

| Design Pressures (PSF) for Single Doors (X) | | | | | | |
|---|---|---|---|---|---|---|
| Glass Type: 7, 8, & 9 | | | | | | |
| Frame Height | Overall DO Frame Width | | | | | |
| | 28" | 32" | 36" | 38-1/16" | 42-1/16" | 47-1/8" |
| 72" | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 |
| 80" | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 |
| 84" | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 |
| 96" | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 |
| 108" | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -77.9 |
| 120" | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -77 | +70 / -70 |
| 132" | +70 / -80 | +70 / -80 | +67.2 / -67.2 | +63.1 / -63.1 | +57.9 / -57.9 | |
| 144" | +70 / -80 | +65.5 / -65.5 | +57.5 / -57.5 | +55.5 / -55.5 | | |

TABLE 11

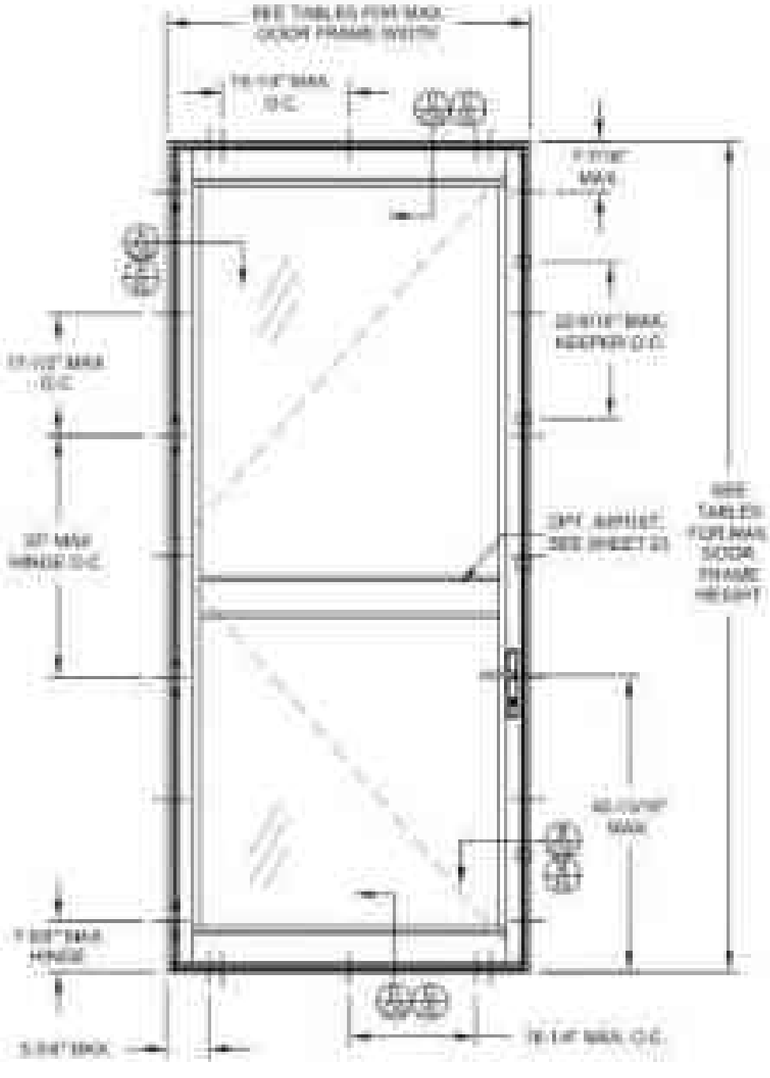
| Design Pressures (PSF) for Single Doors (X) | | | | | | |
|---|---|---|---|---|---|---|
| Glass Type: 10 & 11 | | | | | | |
| Frame Height | Overall DO Frame Width | | | | | |
| | 28" | 32" | 36" | 38-1/16" | 42-1/16" | 47-1/8" |
| 72" | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 |
| 80" | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 |
| 84" | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 |
| 96" | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 |
| 108" | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -77.8 |
| 120" | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +69 / -69 | +70 / -70 |
| 132" | +70 / -80 | +70 / -73.9 | +67.2 / -67.2 | +63.1 / -63.1 | +57.9 / -57.9 | |

NOTES:

1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
2) SEE SHEET 15 FOR GLASS DESCRIPTIONS.
3) DLO WIDTH = FRAME WIDTH - 4-1/16"
4) DLO HEIGHT = FRAME HEIGHT - 13-5/8" (STD. THRESHOLD).
5) DLO HEIGHT = FRAME HEIGHT - 13-7/16" (LOW PROFILE THRESHOLD).
6) SWINGING DOORS ARE ALL DOORS WITH LOW PROFILE THRESHOLD ARE NOT RATED FOR WATER INFILTRATION. IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED, OR OVERHANG IS PER FIGURE 1, THE (+) DESIGN PRESSURES SHOWN IN THE TABLE MAY BE USED AND BOTH THRESHOLDS ARE ACCEPTABLE.

FIGURE 1




TYP. ELEVATION

DETAIL LETTER
OUTSWING, SEE SHEETS 18 & 19

DETAIL LETTER
INSWING, SEE SHEETS 20 & 21

| | | | | | |
|---|---|---|---|---|---|
| 1 | 12/19/24 | ADDED DRT, IMPACT - DX | | | |
| 2 | 1/29/25 | ADDED ALUMINUM 10 & DS FRENCH DOOR | | | |
| | | | | | |


TRIPLE DIAMOND, INC.
1810 E. SAHARA AVE.
SUITE 371
LAS VEGAS, NV 89104


ALUMINUM 10 & DS FRENCH DOOR

X ELEVATION & DP

FD5960A

5 OF 25

ANTHONY LYNN MILLER
No. 56705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 56705

# XX DOORS, INSWING OR OUTSWING WITH STD. OR LOW PROFILE THRESHOLD

TABLE 7D

**Design Pressures (PSF) for Double Doors (XX)**

**Glass Type: 1**

| Frame Height | Overall (XX) Frame Width | | | | | | |
|---|---|---|---|---|---|---|---|
| | 24" | 60" | 80" | 72" | 73-5/8" | 87-3/16" | 92" |
| 72" | +62 / -70 | +50 / -70 | +48 / -72 | +43 / -76 | +48 / -76 | +48 / -70 | +50 / -70 |
| 80" | +62 / -70 | +50 / -70 | +48 / -72 | +42 / -76 | +48 / -76 | +48 / -70 | +50 / -70 |
| 84" | +62 / -70 | +50 / -70 | +48 / -72 | +42 / -76 | +48 / -76 | +48 / -70 | +50 / -70 |
| 96" | +62 / -70 | +50 / -70 | +48 / -72 | +42 / -76 | +48 / -76 | +48 / -70 | +50 / -70 |
| 108" | +55 / -70 | +50 / -70 | +42 / -72 | +36 / -76 | +48 / -76 | +48 / -70 | +50 / -70 |
| 114 1/4" | +48 / -70 | +50 / -70 | +48 / -72 | +40 / -76 | +48 / -76 | +48 / -70 | +50 / -70 |
| 120" | +48 / -70 | +50 / -70 | +48 / -72 | +40 / -76 | +48 / -76 | +48 / -70 | +50 / -70 |
| 132" | +48 / -70 | +50 / -70 | +48 / -72 | +40 / -76 | +48 / -76 | +48 / -70 | +50 / -70 |
| 144" | +48 / -68 | +50 / -70 | +48 / -72 | +40 / -76 | +48 / -76 | +48 / -70 | +50 / -70 |

TABLE 7D

**Design Pressures (PSF) for Double Doors (XX)**

**Glass Type: 2 & 3**

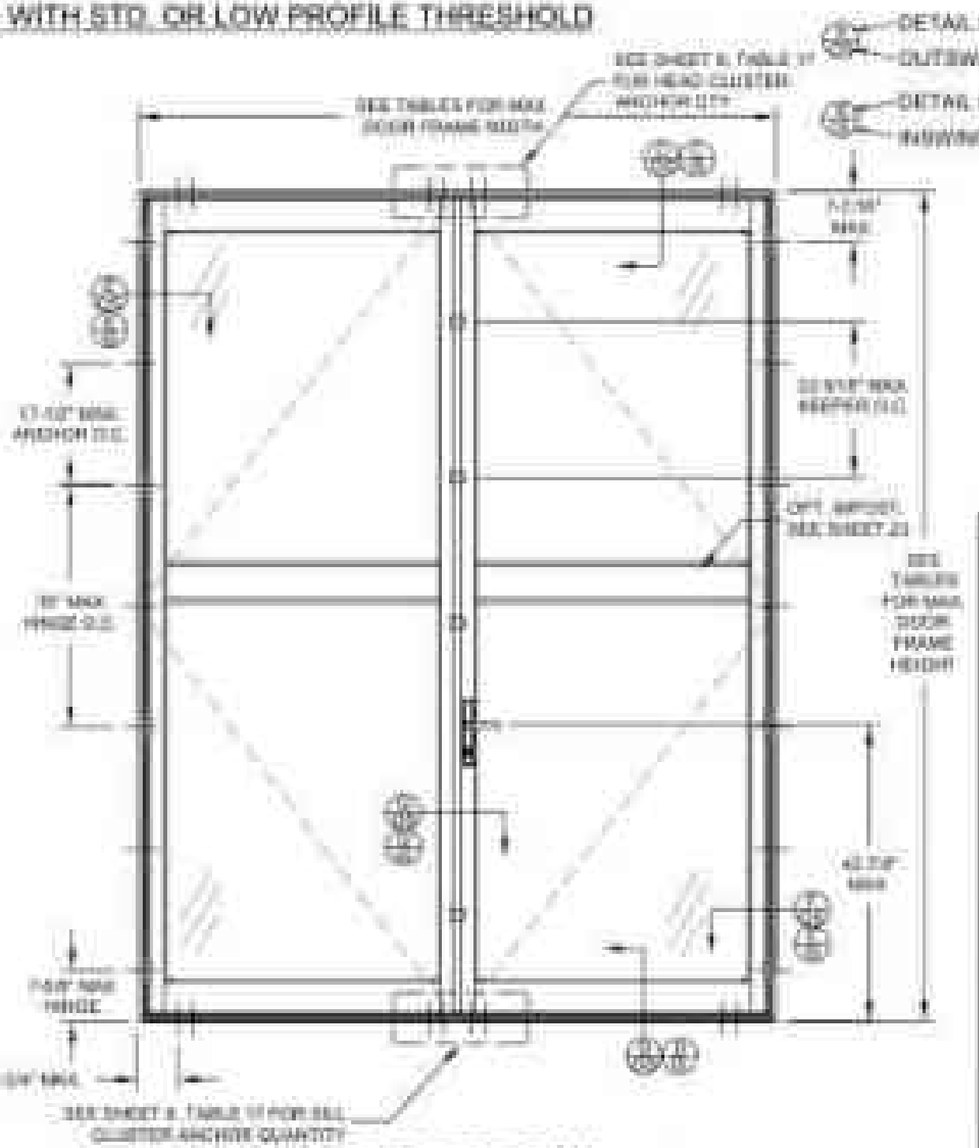
| Frame Height | Overall (XX) Frame Width | | | | | | |
|---|---|---|---|---|---|---|---|
| | 24" | 60" | 80" | 72" | 73-5/8" | 87-3/16" | 92" |
| 72" | +65 / -70 | +65 / -70 | +64 / -72 | +60 / -76 | +65 / -76 | +65 / -70 | +65 / -70 |
| 80" | +65 / -70 | +65 / -70 | +64 / -72 | +60 / -76 | +65 / -76 | +65 / -70 | +65 / -70 |
| 84" | +65 / -70 | +65 / -70 | +64 / -72 | +60 / -76 | +65 / -76 | +65 / -70 | +65 / -70 |
| 96" | +65 / -70 | +65 / -70 | +64 / -72 | +60 / -76 | +65 / -76 | +65 / -70 | +65 / -70 |
| 108" | +65 / -70 | +65 / -70 | +64 / -72 | +60 / -76 | +65 / -76 | +65 / -70 | +65 / -70 |
| 114 1/4" | +65 / -70 | +65 / -70 | +64 / -72 | +60 / -76 | +65 / -76 | +65 / -70 | +65 / -70 |
| 120" | +65 / -70 | +65 / -70 | +64 / -72 | +60 / -76 | +65 / -76 | +65 / -70 | +65 / -70 |
| 132" | +65 / -70 | +65 / -70 | +64 / -72 | +60 / -76 | +65 / -76 | +65 / -70 | +65 / -70 |
| 144" | +65 / -68 | +65 / -70 | +64 / -72 | +60 / -76 | +65 / -76 | +65 / -70 | +65 / -70 |

TABLE 7D

**Design Pressures (PSF) for Double Doors (XX)**

**Glass Type: 4, 5, & 6**

| Frame Height | Overall (XX) Frame Width | | | | | | |
|---|---|---|---|---|---|---|---|
| | 24" | 60" | 80" | 72" | 73-5/8" | 87-3/16" | 92" |
| 72" | +63 / -70 | +58 / -70 | +63 / -72 | +60 / -76 | +65 / -76 | +65 / -70 | +65 / -70 |
| 80" | +63 / -70 | +58 / -70 | +63 / -72 | +59 / -76 | +58 / -76 | +65 / -70 | +65 / -70 |
| 84" | +63 / -70 | +58 / -70 | +63 / -72 | +59 / -76 | +58 / -76 | +65 / -70 | +65 / -70 |
| 96" | +63 / -70 | +58 / -70 | +63 / -72 | +59 / -76 | +58 / -76 | +65 / -70 | +65 / -70 |
| 108" | +63 / -70 | +58 / -70 | +63 / -72 | +59 / -76 | +58 / -76 | +65 / -70 | +65 / -70 |
| 114 1/4" | +63 / -70 | +58 / -70 | +63 / -72 | +59 / -76 | +58 / -76 | +65 / -70 | +65 / -70 |
| 120" | +63 / -70 | +58 / -70 | +63 / -72 | +59 / -76 | +58 / -76 | +65 / -70 | +65 / -70 |
| 132" | +63 / -70 | +58 / -70 | +63 / -72 | +59 / -76 | +58 / -76 | +65 / -70 | +65 / -70 |
| 144" | +63 / -68 | +58 / -70 | +63 / -72 | +59 / -76 | +58 / -76 | +65 / -70 | +65 / -70 |




TYP. ELEVATION

NOTES:

1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
2) SEE SHEET 19 FOR GLASS DESCRIPTIONS
3) OLD WIDTH = FRAME WIDTH - 0 - 9-0/16"
4) OLD HEIGHT = FRAME HEIGHT - 10-5/8" (STD. THRESHOLD)
5) OLD HEIGHT = FRAME HEIGHT - 10-1/4" (LOW PROFILE THRESHOLD)
6) INSWING DOORS AND ALL DOORS WITH LOW PROFILE THRESHOLD ARE NOT RATED FOR WATER INFILTRATION. IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIGURE 1, THE (+) DESIGN PRESSURES SHOWN IN THE TABLE MAY BE USED AND BOTH THRESHOLDS ARE ACCEPTABLE.

FIGURE 1

OH LENGTH

DOOR ASSEMBLIES INSTALLED WHERE THE OVERHANG (OH) LENGTH IS EQUAL TO OR GREATER THAN THE OVERHANG HEIGHT ARE EXEMPTED FROM WATER INFILTRATION RESISTANCE.

OH HEIGHT

| | |
|---|---|
| ADDED OPT. IMPOST - XX | |
| ALUMINUM XX & OX FRENCH DOOR ELEVATION & DOOR | |
| FD9960A | |
| SHEET 17 OF 36 | |
| REVISIONS | |
| DRAWN BY | |
| CHECKED BY | |
| DATE | |
| SCALE | |
| PROJECT NO. | |

ANTHONY LYNN MILLER
LICENSE
No. 56705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 56705

# XX DOORS, INSWING OR OUTSWING WITH STD. OR LOW PROFILE THRESHOLD

TABLE 16

**Design Pressures (PSF) for Double Doors (XX)**

**Glass Type: 7, 8, & 9**

| Frame Height | Overall (XX) Frame Width | | | | | | |
|---|---|---|---|---|---|---|---|
| | 32" | 60" | 62" | 72" | 76 1/2" | 80 5/16" | 96" |
| 72" | +72 / -80 | +70 / -82 | +70 / -82 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 |
| 80" | +72 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 |
| 84" | +72 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 |
| 96" | +72 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 |
| 108" | +72 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -77.8 |
| 120" | +72 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -77 | +70 / -70 |
| 132" | +72 / -80 | +70 / -80 | +70 / -73.3 | +67.2 / -67.2 | +63.1 / -63.1 | +57.9 / -57.9 | |
| 144" | +72 / -80 | +62.1 / -62.1 | +36.5 / -36.5 | +31.5 / -31.5 | +30.6 / -30.6 | | |

TABLE 16

**Design Pressures (PSF) for Double Doors (XX)**

**Glass Type: 10 & 11**

| Frame Height | Overall (XX) Frame Width | | | | | | |
|---|---|---|---|---|---|---|---|
| | 32" | 60" | 62" | 72" | 76 1/2" | 80 5/16" | 96" |
| 72" | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 |
| 80" | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 |
| 84" | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 |
| 96" | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 |
| 108" | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -77.8 |
| 120" | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -80 | +70 / -77 | +70 / -70 |
| 132" | +70 / -80 | +70 / -80 | +70 / -73.3 | +67.2 / -67.2 | +63.1 / -63.1 | +57.9 / -57.9 | |

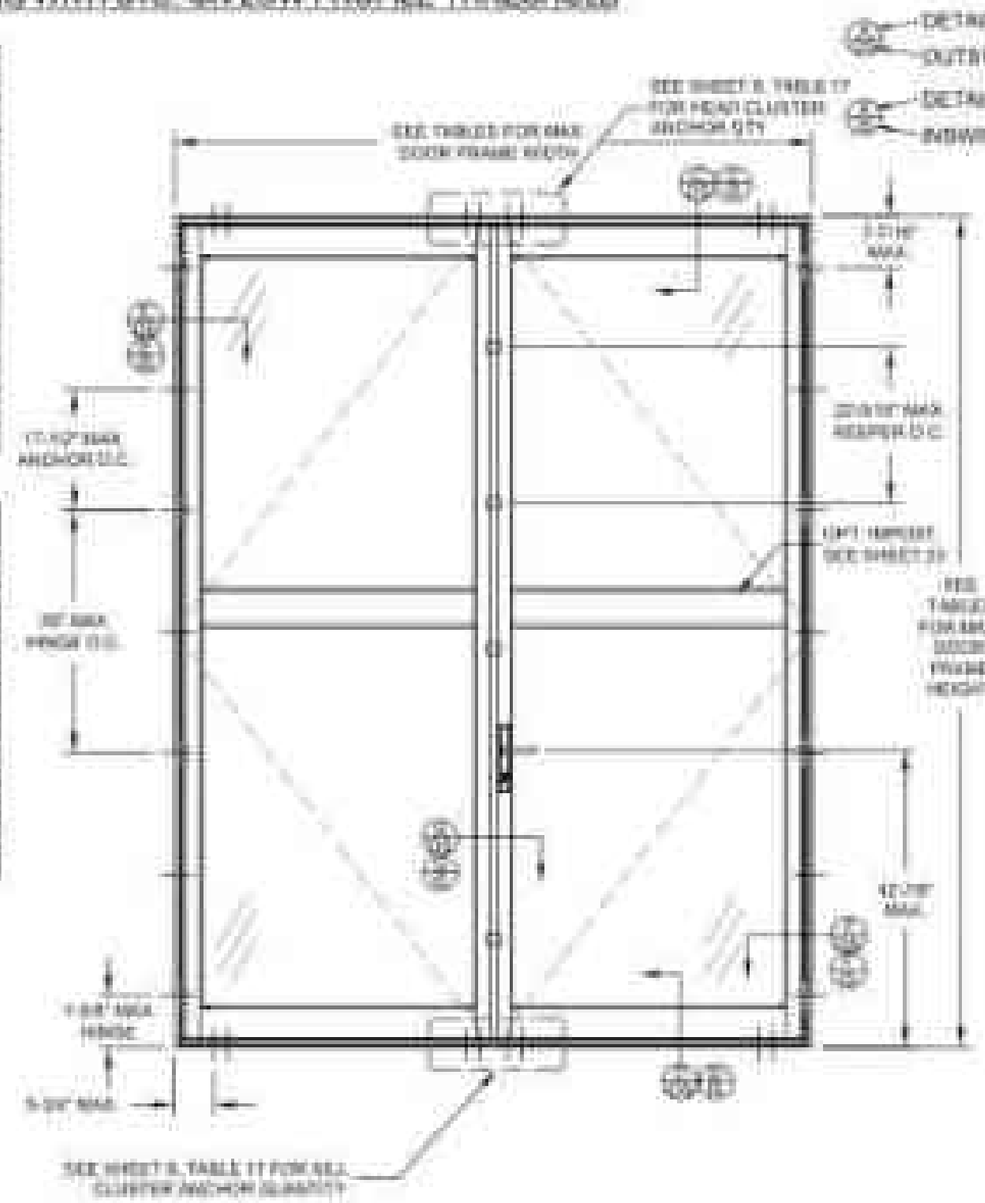
NOTES:

1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
2) SEE SHEET 15 FOR GLASS DESCRIPTIONS.
3) OLO WIDTH = FRAME WIDTH - 2) - 5 5/16"
4) OLO HEIGHT = FRAME HEIGHT - 10 5/8" (STD. THRESHOLD)
5) OLO HEIGHT = FRAME HEIGHT - 10 7/16" (LOW PROFILE THRESHOLD)
6) INSWING DOORS AND ALL DOORS WITH LOW PROFILE THRESHOLD ARE NOT RATED FOR WATER INFILTRATION. IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED ON OVERHANG IS PER FIGURE 1, THE (+) DESIGN PRESSURES SHOWN IN THE TABLE MAY BE USED AND BOTH THRESHOLDS ARE ACCEPTABLE.

FIGURE 1:




DOOR ASSEMBLIES INSTALLED WHERE THE OVERHANG (OH) LENGTH IS EQUAL TO OR GREATER THAN THE OVERHANG HEIGHT ARE EXEMPTED FROM WATER INFILTRATION RESISTANCE.




TYP ELEVATION

ADDED UHT IMPOST - XX

| | |
|---|---|
| DRAWN | C. WEBB |
| CHECKED | |
| APPROVED | |
| DATE | FEBRUARY 2021 |
| SCALE | AS NOTED |
| DRAWING NO. | FD5600 |
| SHEET NO. | 7 OF 36 |

ALUMINUM BI & OS FRENCH DOORS

XX ELEVATION & DP

FD5600

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT.

ANTHONY LYNN MILLER
LICENSED
No. 56705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E. # 56705

TABLE 11

## Min. Quantity of Cluster Anchors @ Head & Sill, XX

All Glass Types

| Frame Height | Frame Location | Anchor Group | Frame Width | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 24" | 30" | 36" | 42" | 78-3/4" | 82-7/8" | 92" |
| 72" | Head | A | 3 | 3 | 4 | 5 | 5 | 5 | 5 |
| | Sill | | 2 | 3 | 3 | 3 | 5 | 5 | 5 |
| | Head | B | 2 | 3 | 3 | 3 | 3 | 3 | 4 |
| | Sill | | 2 | 3 | 3 | 3 | 3 | 3 | 4 |
| | Head | C | 2 | 2 | 3 | 3 | 3 | 3 | 4 |
| | Sill | | 2 | 2 | 3 | 3 | 3 | 3 | 4 |
| | Head | D | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| | Sill | | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| 90" | Head | A | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| | Sill | | 3 | 4 | 5 | 5 | 5 | 5 | 4 |
| | Head | B | 3 | 3 | 3 | 3 | 5 | 4 | 4 |
| | Sill | | 3 | 3 | 3 | 3 | 3 | 4 | 4 |
| | Head | C | 3 | 3 | 3 | 3 | 3 | 4 | 4 |
| | Sill | | 4 | 3 | 3 | 3 | 3 | 4 | 4 |
| | Head | D | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| | Sill | | 2 | 2 | 3 | 3 | 3 | 3 | 4 |
| 96" | Head | A | 4 | 3 | 3 | 4 | 5 | 3 | 4 |
| | Sill | | 3 | 3 | 3 | 4 | 3 | 3 | 4 |
| | Head | B | 3 | 3 | 3 | 3 | 3 | 4 | 4 |
| | Sill | | 3 | 3 | 3 | 3 | 3 | 4 | 4 |
| | Head | C | 3 | 3 | 3 | 3 | 3 | 4 | 4 |
| | Sill | | 3 | 3 | 3 | 3 | 3 | 4 | 4 |
| | Head | D | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| | Sill | | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| 96" | Head | A | 3 | 3 | 3 | 3 | 4 | 4 | 4 |
| | Sill | | 3 | 3 | 3 | 3 | 4 | 4 | 4 |
| | Head | B | 3 | 3 | 3 | 4 | 4 | 4 | 5 |
| | Sill | | 3 | 3 | 3 | 4 | 4 | 4 | 5 |
| | Head | C | 3 | 3 | 3 | 4 | 4 | 4 | 5 |
| | Sill | | 3 | 3 | 3 | 4 | 4 | 4 | 5 |
| | Head | D | 3 | 3 | 3 | 3 | 4 | 4 | 4 |
| | Sill | | 3 | 3 | 3 | 3 | 4 | 4 | 4 |

TABLE 11 (cont.)

| Frame Height | Frame Location | Anchor Group | Frame Width | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 24" | 30" | 36" | 42" | 78-3/4" | 82-7/8" | 92" |
| 108" | Head | A | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| | Sill | | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| | Head | B | 3 | 4 | 4 | 4 | 4 | 5 | 5 |
| | Sill | | 3 | 4 | 4 | 4 | 4 | 5 | 5 |
| | Head | C | 3 | 3 | 4 | 4 | 4 | 4 | 5 |
| | Sill | | 3 | 3 | 4 | 4 | 4 | 5 | 5 |
| | Head | D | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| | Sill | | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| 120" | Head | A | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| | Sill | | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| | Head | B | 4 | 4 | 4 | 5 | 5 | 5 | 5 |
| | Sill | | 4 | 4 | 4 | 5 | 5 | 5 | 5 |
| | Head | C | 3 | 4 | 4 | 4 | 5 | 5 | 5 |
| | Sill | | 3 | 4 | 4 | 4 | 4 | 5 | 5 |
| | Head | D | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| | Sill | | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| 132" | Head | A | 3 | 4 | 4 | 4 | 4 | 4 | |
| | Sill | | 3 | 4 | 4 | 4 | 4 | 4 | |
| | Head | B | 4 | 4 | 4 | 4 | 4 | 4 | |
| | Sill | | 4 | 4 | 4 | 4 | 4 | 4 | |
| | Head | C | 4 | 4 | 4 | 4 | 4 | 4 | |
| | Sill | | 4 | 4 | 4 | 4 | 4 | 4 | |
| | Head | D | 3 | 4 | 4 | 4 | 4 | 4 | |
| | Sill | | 3 | 4 | 4 | 4 | 4 | 4 | |
| 144" | Head | A | 3 | 3 | 3 | 3 | 3 | | |
| | Sill | | 3 | 3 | 3 | 3 | 3 | | |
| | Head | B | 4 | 4 | 4 | 4 | 4 | | |
| | Sill | | 4 | 4 | 4 | 4 | 4 | | |
| | Head | C | 4 | 4 | 4 | 4 | 4 | | |
| | Sill | | 4 | 4 | 4 | 4 | 4 | | |
| | Head | D | 3 | 3 | 3 | 3 | 3 | | |
| | Sill | | 3 | 3 | 3 | 3 | 3 | | |

NOTES:

1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THIS TABLE.
2) HEAD AND SILL ANCHOR QUANTITIES ARE FOR DOUBLE DOOR (XX) ANCHOR CLUSTERS ONLY.

NO CHANGES THIS SHEET

ADDENDUM - FPA

FD0999M

ALUMINUM IS & OS FRENCH DOOR (1-M)

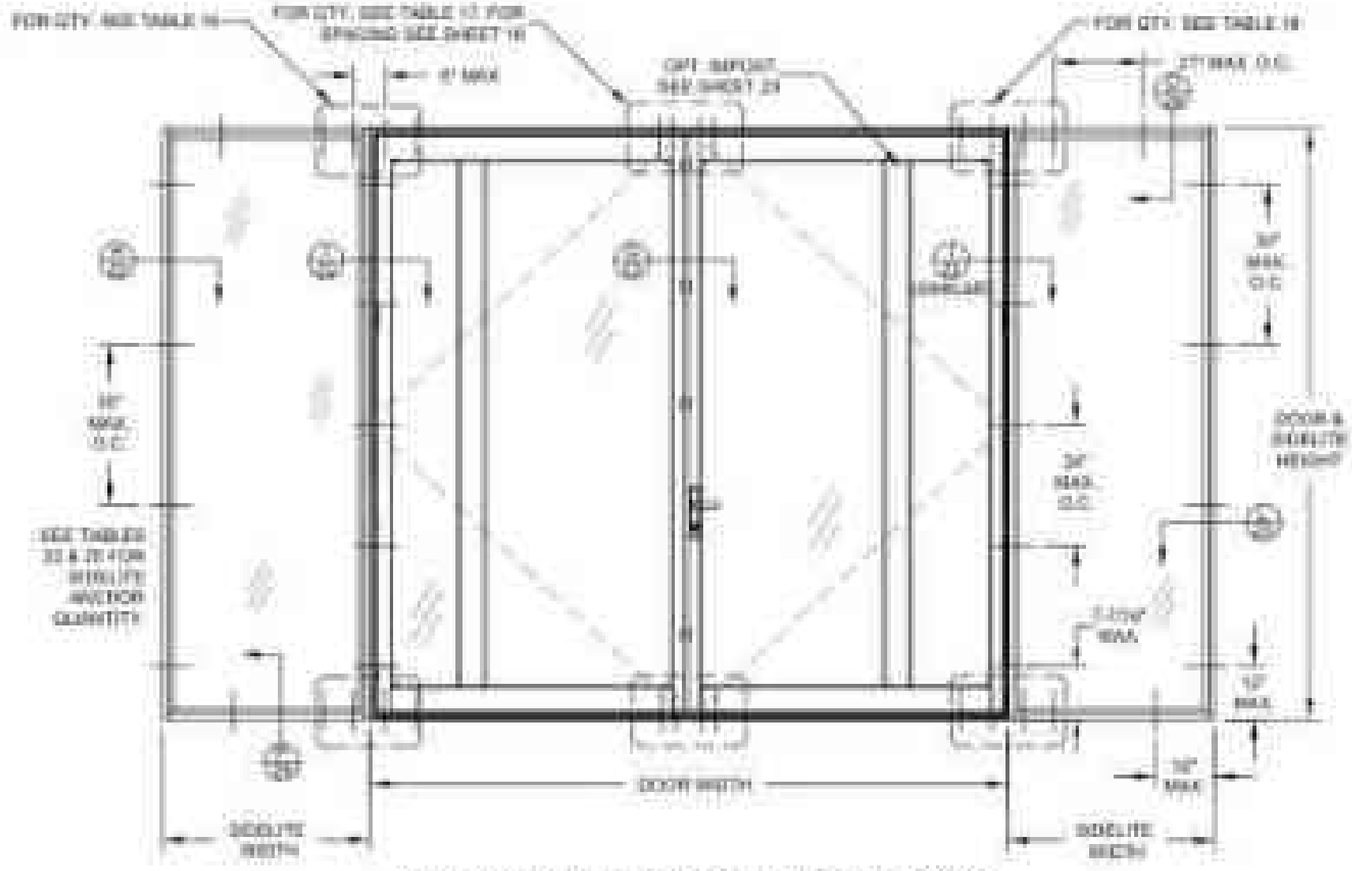
ANCHOR CLUSTER QUANTITY

C. WEIRF

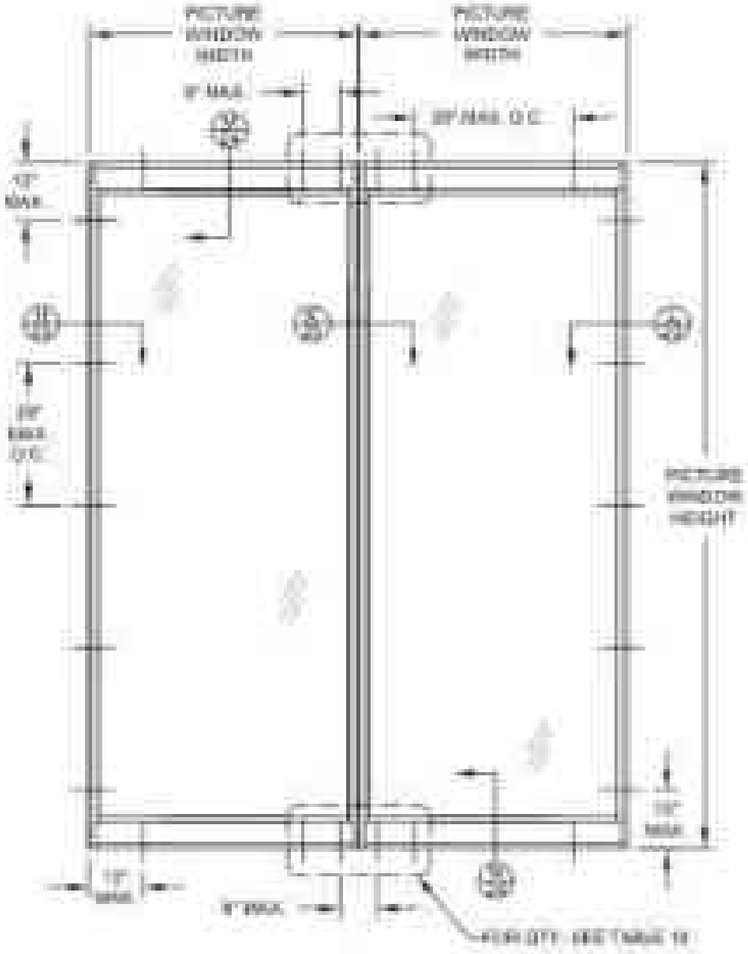
FD0999A

8 OF 26

ANTHONY LYNN MILLER
LICENSE
No. 90705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 90705




DOOR WITH LEFT & RIGHT SIDELITE, OXXO




VERTICALLY MULLED PICTURE WINDOWS O|O

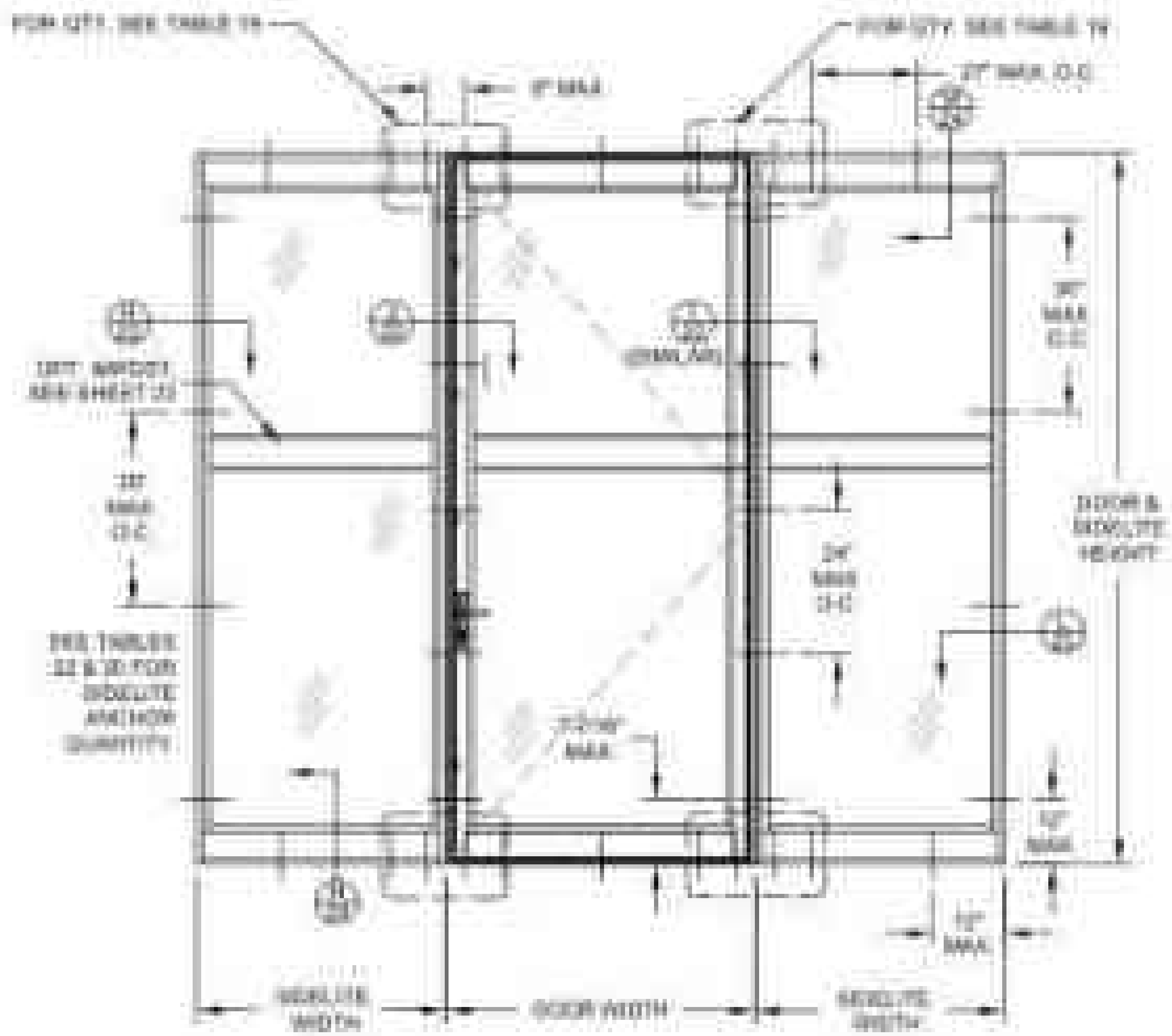
SHOWN WITH OPTIONAL WIDE TOP/BOTTOM RAILS

NOTES:

1) WINDOWS ARE RATED FOR A WATER TEST PRESSURE THAT IS 15% OF THE POSITIVE DESIGN PRESSURE LISTED IN THE DP TABLES.
2) TWO SEALED UNITS SHOWN, MAY BE UNVENTED UNITS.
3) PICTURE WINDOW/SIDELITE MAY HAVE NARROW OR WIDE STILES.
4) THE FIXED MULLION IS ONLY AVAILABLE WITH THE NARROW STILE.
5) SINGLE STAND-ALONE PICTURE WINDOWS ARE ALSO AVAILABLE.

| | | | |
|---|---|---|---|
| ADDED OPT. IMPOST - OX | 12/21/16 | III |
| | | | |
| FL#5993-M - FPA | C. WEST | 12/20/16 | |
| | | | |
| ALUMINUM IS & OS FRENCH DOOR (1 1/4" FRAME) | | | |
| SIDELITE ELEVATIONS | | | |
| FD5993A | | | 11 OF 26 |

ANTHONY LYNN MILLER
LICENSED
No. 56705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FLA # 56705




## DOOR WITH LEFT & RIGHT SIDELITE, OXO

TABLE 18

| Vertical Mullion Design Pressure (lbs/ft²) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Mullion Length (Door Height) | Opening Width (Both Units) - See Note 1 | | | | | | |
| | 72" | 84" | 96" | 114" | 120" | 132" | 144" |
| 72" | +/-75 | +/-75 | +/-75 | +/-75 | +/-75 | +/-75 | +/-75 |
| 80" | +/-75 | +/-75 | +/-75 | +/-75 | +/-75 | +/-75 | +/-75 |
| 84" | +/-75 | +/-75 | +/-75 | +/-75 | +/-75 | +/-75 | +/-75 |
| 96" | +/-75 | +/-75 | +/-75 | +/-75 | +/-75 | +/-73.1 | |
| 108" | +/-75 | +/-75 | +/-70.6 | +/-65 | +/-56.5 | | |
| 120" | +/-66.6 | +/-65 | +/-65 | +/-65 | | | |
| 132" | +/-51.6 | +/-44.2 | +/-38.7 | | | | |
| 144" | +/-39.7 | +/-34 | | | | | |

TABLE 19

| Cluster Anchors Required at Each Vertical Mullion End | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Mullion Length (Door Height) | Anchor Group | Opening Width (Both Units) - See Note 1 | | | | | | |
| | | 72" | 84" | 96" | 114" | 120" | 132" | 144" |
| 72" | A | 2 | 4 | 4 | 5 | 5 | 5 | 6 |
| | B | 3 | 3 | 4 | 4 | 4 | 5 | 5 |
| | C | 3 | 3 | 3 | 4 | 4 | 5 | 5 |
| | D | 2 | 2 | 3 | 3 | 3 | 3 | 4 |
| 80" | A | 3 | 4 | 4 | 5 | 5 | 6 | 6 |
| | B | 3 | 5 | 4 | 5 | 5 | 5 | 6 |
| | C | 3 | 3 | 4 | 4 | 5 | 5 | 5 |
| | D | 2 | 3 | 3 | 3 | 3 | 4 | 4 |
| 84" | A | 4 | 4 | 5 | 5 | 6 | 6 | 7 |
| | B | 3 | 4 | 4 | 5 | 5 | 5 | 6 |
| | C | 3 | 4 | 4 | 5 | 5 | 5 | 6 |
| | D | 2 | 3 | 3 | 3 | 4 | 4 | 4 |
| 96" | A | 4 | 5 | 5 | 6 | 6 | 7 | |
| | B | 4 | 4 | 5 | 5 | 6 | 6 | |
| | C | 3 | 4 | 4 | 5 | 5 | 6 | |
| | D | 3 | 3 | 3 | 4 | 4 | 4 | |
| 108" | A | 4 | 5 | 5 | 6 | 5 | | |
| | B | 4 | 4 | 5 | 5 | 5 | | |
| | C | 4 | 4 | 5 | 5 | 5 | | |
| | D | 3 | 3 | 3 | 4 | 5 | | |
| 120" | A | 5 | 5 | 6 | 6 | | | |
| | B | 4 | 4 | 5 | 6 | | | |
| | C | 4 | 4 | 5 | 6 | | | |
| | D | 3 | 3 | 3 | 4 | | | |
| 132" | A | 4 | 4 | 4 | | | | |
| | B | 3 | 3 | 3 | | | | |
| | C | 3 | 3 | 3 | | | | |
| | D | 2 | 2 | 2 | | | | |
| 144" | A | 3 | 3 | | | | | |
| | B | 3 | 3 | | | | | |
| | C | 3 | 3 | | | | | |
| | D | 2 | 2 | | | | | |

NOTES:

1) FOR OXXO AND SIMILAR CONFIGURATIONS CONTAINING A DOUBLE DOOR (XX), USE ONLY HALF OF THE FRAME WIDTH OF THE DOUBLE DOOR WHEN USING TABLES 18 AND 19.
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
3) PICTURE WINDOW/SIDELITE MAY HAVE NARROW OR WIDE RAILS.
4) THE FIXED MULLION IS ONLY AVAILABLE WITH THE NARROW STILE.

ADDED OPT. IMPOST & NOTE 1 - CK

ALUMINUM IS & OS FRENCH DOOR (LM)

SL ELEVATION & MULL TABLES

C. KEMPF

FD0950A

FD0950LM - FPA

ANTHONY LYNN MILLER
PROFESSIONAL ENGINEER
STATE OF FLORIDA
A. LYNN MILLER, P.E.

TABLE 23

**Picture Window, Sidelite or Transom Design Pressure (lbs/ft²), Glass Types 7 & 8**

| Long Side Length | Short Side Length | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 30" | 36" | 42" | 48" | 54" | 60" | 66" | 72" | 78" | 84" | 90" |
| 30" | +60/-75 | | | | | | | | | | |
| 36" | +60/-75 | +60/-75 | | | | | | | | | |
| 42" | +60/-75 | +60/-75 | +60/-75 | | | | | | | | |
| 48" | +60/-75 | +60/-75 | +60/-75 | +60/-75 | | | | | | | |
| 54" | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | | | | | | |
| 60" | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | | | | | |
| 66" | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | | | | |
| 72" | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | | | |
| 78" | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | | |
| 84" | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | |
| 90" | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-74.1 | +60/-73.1 | +60/-72.8 |
| 96" | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-72.8 | +60/-70.7 | +60/-69.3 | +60/-68.5 |
| 102" | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75.4 | +60/-70.5 | +60/-68 | +60/-66.3 | |
| 108" | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-73.6 | +60/-68.3 | +60/-66.7 | | |
| 114" | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-74.1 | +60/-69.9 | +60/-66.5 | | | |
| 120" | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-72.8 | +60/-68.5 | +60/-65 | | | |
| 126" | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-71.7 | +60/-67.2 | | | | |
| 132" | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-70.7 | | | | | |
| 138" | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-69.8 | | | | | |
| 144" | +60/-75 | +60/-75 | +60/-75 | +60/-75 | +60/-74.7 | +60/-69 | | | | | |

SEE TABLE 22 FOR ANCHOR QUANTITIES REQUIRED.

TABLE 27

| Anchor Group | Anchor Type | Frame Member | Substrate | Min. Edge Distance | Min. O.C. Distance | Min. Embedment or Metal Thickness |
|---|---|---|---|---|---|---|
| A | #12 Steel SMS (Dr. 5) or (18-8 SS SMS) | All | Sch Foam Pine (SG = 0.35) | 5/16" | 1" | 1-3/8" |
| | | | 6063-T5 Aluminum | 3/8" | 1" | 0.077" |
| | | | A36 Steel | 1/8" | 1" | .060" |
| | | | Steel Stud, Ga. 33 | 3/8" | 1" | 0.043" (18 Ga) |
| | 1/4" DaVinci UltraCore+ | All | Concrete (min. 3.0 ksi) | 1-5/16" | 4" | 1-3/8" |
| | | | Sch Foam Pine (SG = 0.35) | 1" | 1" | 1-3/8" |
| | 1/4" PVC SS Faux CedarFax+ | #8 | Concrete (min. 3.35 ksi) | 1" | 4" | 1-3/4" |
| | | | Sch Foam Pine (SG = 0.35) | 1" | 1" | 1-3/8" |
| B | 1/4" DaVinci UltraCore+ | Wood/SIP | Concrete (min. 3.0 ksi) | 1-5/16" | 4" | 1-3/8" |
| | | Steel | Hollow or Grout-Filled CMU (ASTM C90) | 1" | 1" | 1-1/4" |
| C | 1/4" Dawgail UltraCore+ | #8 | Concrete (Min. 2.0 ksi) | 1-1/8" | 4" | 1-3/8" |
| | 1/4" #12 SS Sky Cedar Fax | All | Concrete (min. 3.35 ksi) | 1-3/4" | 4" | 1-3/4" |
| D | 1/4" DaVinci UltraCore+ | Wood/SIP | Concrete (min. 3.0 ksi) | 1-7/8" | 4" | 1-3/8" |
| | | Steel | Hollow or Grout-Filled CMU (ASTM C90) | 2-1/2" | 4" | 1-1/4" |
| | 1/4" #10 SS Cico CedarFax+ | Wood/SIP | Concrete (min. 3.35 ksi) | 1-3/4" | 4" | 1-3/4" |
| | | Steel | Hollow or Grout-Filled CMU (ASTM C90) | 1-3/4" | 4" | 1-1/4" |

SEE NOTE 2 THIS SHEET

NOTES:

1) FOR SIZES NOT SHOWN ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DESIGNED SHOWN ON THE TABLE. 2) USE ANCHOR TABLE BELOW IS FOR PICTURE WINDOW/SIDELITE ANCHORS ONLY. REFER TO SHEET F FOR DOOR AND MULLION ANCHORS AND ANCHOR NOTES.

NO CHANGES THIS SHEET

| | |
|---|---|
| REVISED | 1/2021 |
| ADDED | 11/2021 |
| | |
| | |
| | |

| | |
|---|---|
| PROJECT | |
| ALUMINUM IS & OS FRENCH DOOR | |
| IS & OP TABLES & ANCHORS | |
| SHEET | 11 OF 26 |
| FDS6084 | |



Table 10

**Picture Window, Sidelite or Transom Anchor Quantities, Glass Types 7 & 8**

| Long Side Length | Anchor Location on Frame | Short Side Length / Anchor Group | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 30" | | | | 36" | | | | 42" | | | | 48" | | | | 54" | | | | 60" | | | | 66" | | | | 72" | | | | 78" | | | | 84" | | | | 90" | | | |
| | | A | B | C | D | A | B | C | D | A | B | C | D | A | B | C | D | A | B | C | D | A | B | C | D | A | B | C | D | A | B | C | D | A | B | C | D | A | B | C | D | A | B | C | D |
| 30" | Long Side | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Short Side | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 42" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 54" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 60" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | | | | | | | | | | | | | | | | | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | | | | | | | | | | | | | | | | | | |
| 66" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | | | | | | | | | | | | | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | | | | | | | | | | | | | | |
| 72" | Long Side | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | | | | | | | | | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | | | | | | | | | | |
| 78" | Long Side | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | | | | | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | | | | | | |
| 84" | Long Side | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 4 | 4 | 2 | 2 | 4 | 4 | 2 | 2 | 4 | 4 | 2 | 2 | 4 | 4 | 2 | 2 | 4 | 4 | 2 | 2 | 4 | 4 | 2 | 2 | 4 | 4 | 2 | 2 | | | | | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | | | | | | |
| 90" | Long Side | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | | |
| 96" | Long Side | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | | |
| 102" | Long Side | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | | |
| 108" | Long Side | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | | |
| 114" | Long Side | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | | |
| 120" | Long Side | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | | |
| 126" | Long Side | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | | |
| 132" | Long Side | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | | |
| 138" | Long Side | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | | |
| 144" | Long Side | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 2 | 2 | | |

NOTES:

1. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THIS TABLE.

NO CHANGES THIS SHEET

FOR PGT - FPA

ALUMINUM IS & OS FRENCH DOOR

BLANCHOR CITY

FD9060A

12 OF 26

ANTHONY LYNN MILLER
LICENSE
NO. 56705
STATE OF
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PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E. # 56705

TABLE 23

| Long Side Length | Short Side Length | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 30" | 36" | 42" | 48" | 54" | 60" | 62-1/4" | 66" | 72" |
| 30" | [illegible] | | | | | | | | |
| 36" | [illegible] | [illegible] | | | | | | | |
| 42" | [illegible] | [illegible] | [illegible] | | | | | | |
| 48" | [illegible] | [illegible] | [illegible] | [illegible] | | | | | |
| 54" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | | | |
| 60" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | | |
| 62-1/4" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | |
| 66" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | |
| 72" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 78" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 84" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 90" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 96" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | |
| 102" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | |
| 108" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | | |
| 114" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | | | |
| 120" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | | | |
| 120-7/8" | [illegible] | [illegible] | [illegible] | [illegible] | | | | | |

Picture Window, Sidelite or Transom Design Pressure (lbs/ft²), Glass Type 10 & 11

SEE TABLE 29 FOR ANCHOR QUANTITIES REQUIRED

TABLE 24

Picture Window, Sidelite or Transom Design Pressure (lbs/ft²), Glass Types 12 & 13

| Long Side Length | Short Side Length | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 30" | 36" | 42" | 48" | 54" | 60" | 62-1/4" | 66" | 72" |
| 30" | [illegible] | | | | | | | | |
| 36" | [illegible] | [illegible] | | | | | | | |
| 42" | [illegible] | [illegible] | [illegible] | | | | | | |
| 48" | [illegible] | [illegible] | [illegible] | [illegible] | | | | | |
| 54" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | | | |
| 60" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | | |
| 62-1/4" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | |
| 66" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | |
| 72" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 78" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 84" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 90" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 96" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 102" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 108" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | |
| 114" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | |
| 120" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | |
| 120-7/8" | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | | | |

SEE TABLE 29 FOR ANCHOR QUANTITIES REQUIRED

NOTES:

1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE

NO CHANGES THIS SHEET

ALUMINUM IS & OS FRENCH DOOR (LM)

SL DP TABLES

C. KEMPF

FD0950LM - FPA

13 OF 26

A. LYNN MILLER, P.E.

## Picture Window: Sidelite or Transom Anchor Quantities, Glass Types 10, 11, 12, & 13

| Long Side Length | Anchor Location on Frame | Short Side Length / Anchor Group | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 12" | | | | 18" | | | | 24" | | | | 30" | | | | 36" | | | | 42" | | | | 48" | | | | 54" | | | |
| | | A | B | C | D | A | B | C | D | A | B | C | D | A | B | C | D | A | B | C | D | A | B | C | D | A | B | C | D | A | B | C | D |
| 30" | Long Side | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Short Side | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 42" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | |
| 48" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | |
| 54" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | |
| 60" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | |
| 62 1/4" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | |
| 66" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | |
| 72" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 78" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 84" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 90" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 96" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 102" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 108" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 114" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 120" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 126 7/8" | Long Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Short Side | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

NOTES:

1. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THIS TABLE.

NO CHANGES THIS SHEET

FW - FPA

FD6660M

14 OF 26

ALUMINUM IS & OS FRENCH DOOR

BLANCHOR CITY

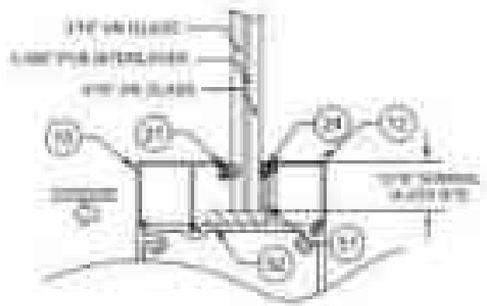
PROJECT NO. 2020-0000

DRAWN BY: ANDREW MILLER

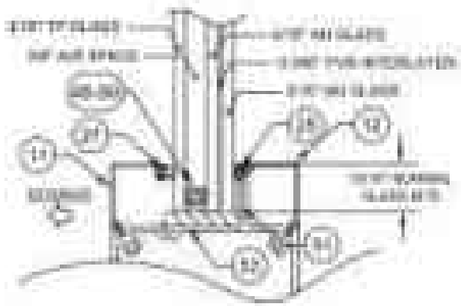
CHECKED BY: ANDREW MILLER

DATE: 00/00/2020

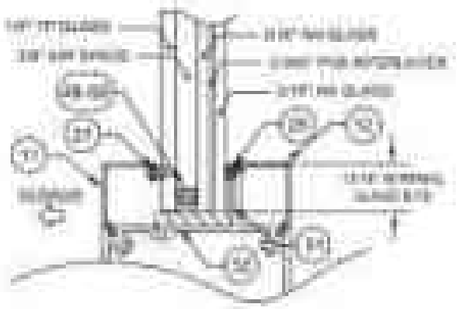
ANDREW LYNN MILLER
LICENSED
No. 56705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E. # 56705



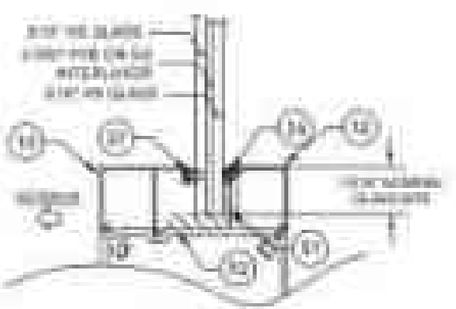
GLASS TYPE 1



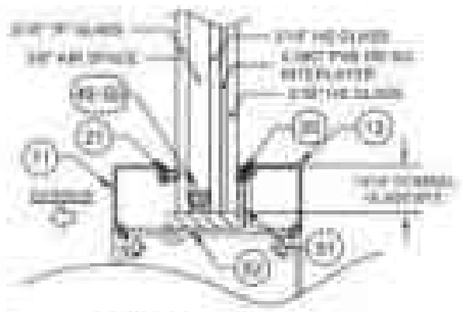
GLASS TYPE 2



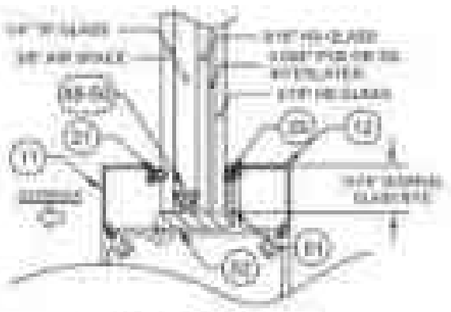
GLASS TYPE 3



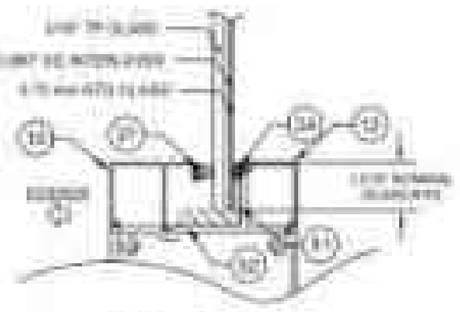
GLASS TYPE 4 (WITH PVB)
GLASS TYPE 4 (WITH SG)



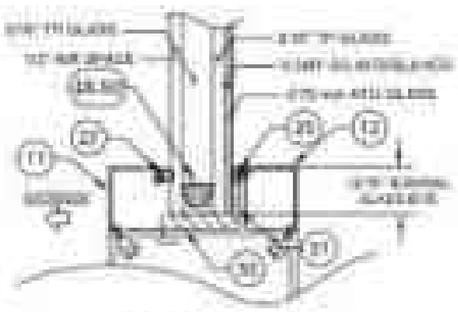
GLASS TYPE 5 (WITH PVB)
GLASS TYPE 5 (WITH SG)



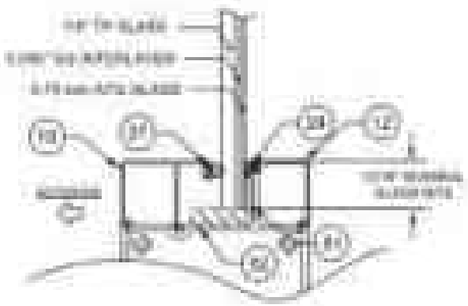
GLASS TYPE 6 (WITH PVB)
GLASS TYPE 6 (WITH SG)



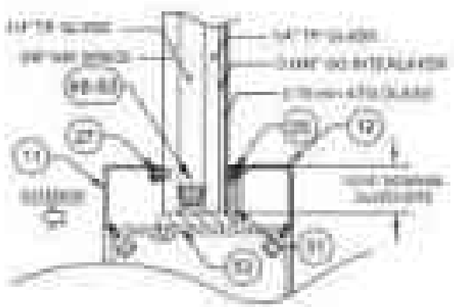
GLASS TYPE 10



GLASS TYPE 11



GLASS TYPE 12



GLASS TYPE 13

"AN" = ANNEALED
"HS" = HEAT STRENGTHENED
"TP" = TEMPERED
"PVB" = .060 "TROSIFOL" PVB INTERLAYER BY KURARAY AMERICA, INC.
"SG" = .090" "SENTRYGLAS" INTERLAYER BY KURARAY AMERICA, INC.
"ATG" = ARCHITECTURAL TECHNICAL GLASS BY CORNING INC.

NO CHANGES THIS SHEET | 1/22/24 | III

FDS693M - FPA | 2 | 4/8/24

ALUMINUM SS & OS FRENCH DOOR (LH)

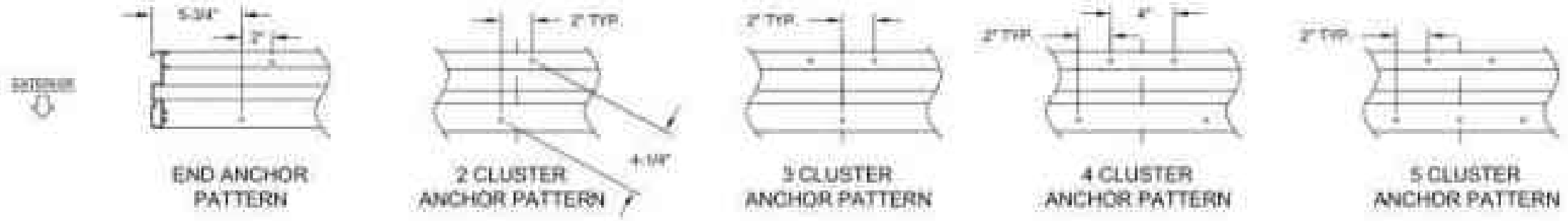
GLAZING DETAILS

FDS693A | 15 OF 26


TRIPLE DIAMOND, INC.
18 DIGITAL DRIVE
NOVATO, CA 94949
(415) 883-1100

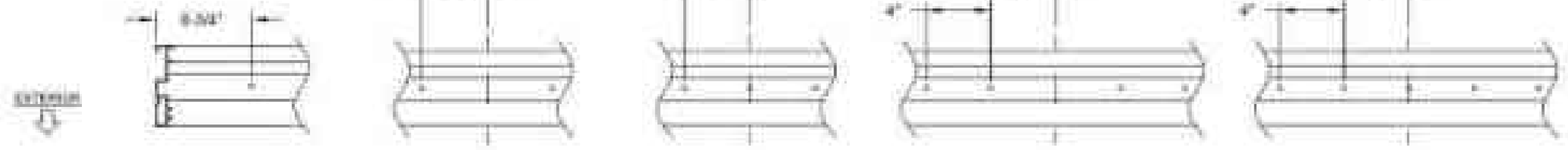

ANTHONY LYNN MILLER
LICENSE
No. 56705
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 56705

## XX DOOR HEAD & STD. THRESHOLD

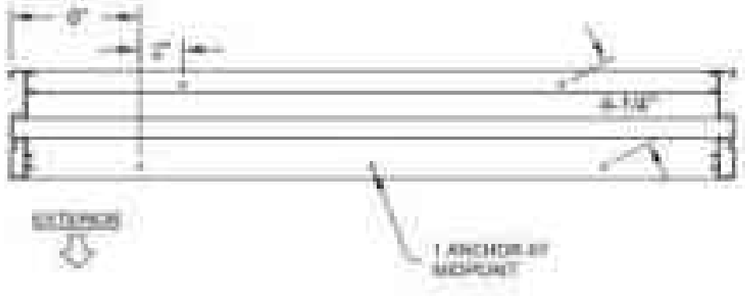



END ANCHOR PATTERN | 2 CLUSTER ANCHOR PATTERN | 3 CLUSTER ANCHOR PATTERN | 4 CLUSTER ANCHOR PATTERN | 5 CLUSTER ANCHOR PATTERN

## LOW PROFILE THRESHOLD




END ANCHOR PATTERN | 2 CLUSTER ANCHOR PATTERN | 3 CLUSTER ANCHOR PATTERN | 4 CLUSTER ANCHOR PATTERN | 5 CLUSTER ANCHOR PATTERN




X DOOR HEAD & STD. THRESHOLD ANCHOR PATTERN

| NO | DESCRIPTION | DATE |
|---|---|---|
| 1 | ADDENDUM #1 | 12/20/24 |

FOR PERMIT - NOT FOR CONSTRUCTION

ALUMINUM IS & OS FRENCH DOOR

HEADWELL ANCHOR PATTERNS

PROJECT NO. 2024-01

DRAWN BY: J.L. WEBB

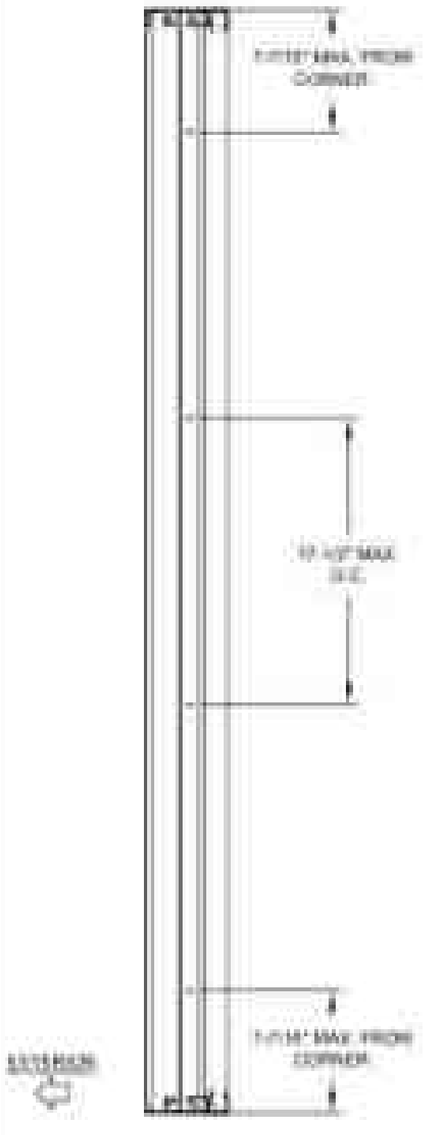
CHECKED BY: A.L. MILLER

SHEET 16 OF 36

ISSUED FOR PERMIT 12/20/24

PROJECT DESIGNED BY:
A. LYNN MILLER, P.E.
1605 N. MAIN
PENSACOLA, FL 32501
(850) 438-9333

ANTHONY LYNN MILLER
LICENSE
No. 56705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FS # 56705




JAMB ANCHOR PATTERN

EXAMPLE:
- SINGLE DOOR, OUTSWING, 42" X 83 3/4", REQUIRED DESIGN PRESSURE IS +50/-60 PSF
- WITH STD. THRESHOLD
- SUBSTRATE IS WOOD ON ALL SIDES

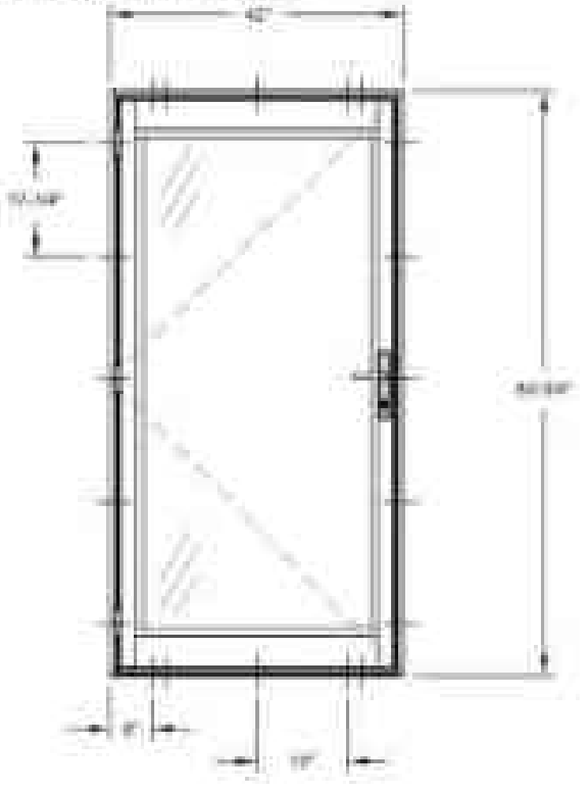
1) FROM TABLES 2-11, WE SEE THAT THE SIZE IS AVAILABLE USING ALL GLASS TYPES AND ALL CONFIGURATIONS. FOR THIS EXAMPLE USE GLASS TYPE 1.

2) SINCE WE ARE USING AN OUTSWING CONFIG. WITH THE STD. THRESHOLD, WE NEED TO USE TABLE 2, ON SHEET 2. FROM TABLE 2, AFTER ROUNDING THE WIDTH AND HEIGHT UP TO THE SIZES GIVEN ON THE TABLE, WE SEE THAT THE MAXIMUM DESIGN PRESSURE IS +65/-75. SINCE THIS EXCEEDS THE REQUIREMENTS OF +50/-60, WE MAY PROCEED.

3) FOLLOW ANCHOR LOCATIONS AS SHOWN ON THE ELEVATION OF SHEET 2.

4) FROM THE MAXIMUM O.C., IT IS REQUIRED THAT WE USE AT LEAST 5 ANCHORS IN THE JAMB.

5) INSTALL USING THE CROSS-SECTION DRAWINGS ON SHEETS 18-24 AS A GUIDELINE.




EXAMPLE 2:
- DOUBLE DOOR, 6'0 -1/2" X 138 3/4", REQUIRED DESIGN PRESSURE IS +/-52.5 PSF.
- SUBSTRATE IS CONCRETE AT THE HEADER AND SILL AND UNFILLED CONCRETE BLOCKS AT THE JAMBS.

1) FROM TABLES 12-16, WE SEE THAT THE SIZE IS AVAILABLE USING ALL GLASS TYPES. FOR THIS EXAMPLE USE GLASS TYPE 7.

2) FROM TABLE 7A, AFTER ROUNDING THE WIDTH AND HEIGHT UP TO THE SIZES GIVEN ON THE TABLE, WE SEE THAT THE MAXIMUM DESIGN PRESSURE IS +/-57.5. SINCE THIS EXCEEDS THE REQUIREMENTS OF +/-52.5, WE MAY PROCEED.

3) FOLLOW ANCHOR LOCATIONS AS SHOWN ON THE ELEVATION OF SHEET 7. FOR THE HEAD AND SILL CLUSTER QUANTITIES, REFER TO TABLE 17.

4) TABLE 17 REQUIRES US TO KNOW THE ANCHOR GROUP TO BE USED. WE PLAN ON USING ULTRACON+ ANCHORS. LOOKING AT TABLE 1, SHEET 1, WE CHOSE ANCHOR GROUP C SINCE WE KNOW THAT THE ANCHORS AT THE HEAD AND SILL ARE INTO CONCRETE AND THE ANCHORS AT THE JAMBS ARE INTO HOLLOW BLOCK.

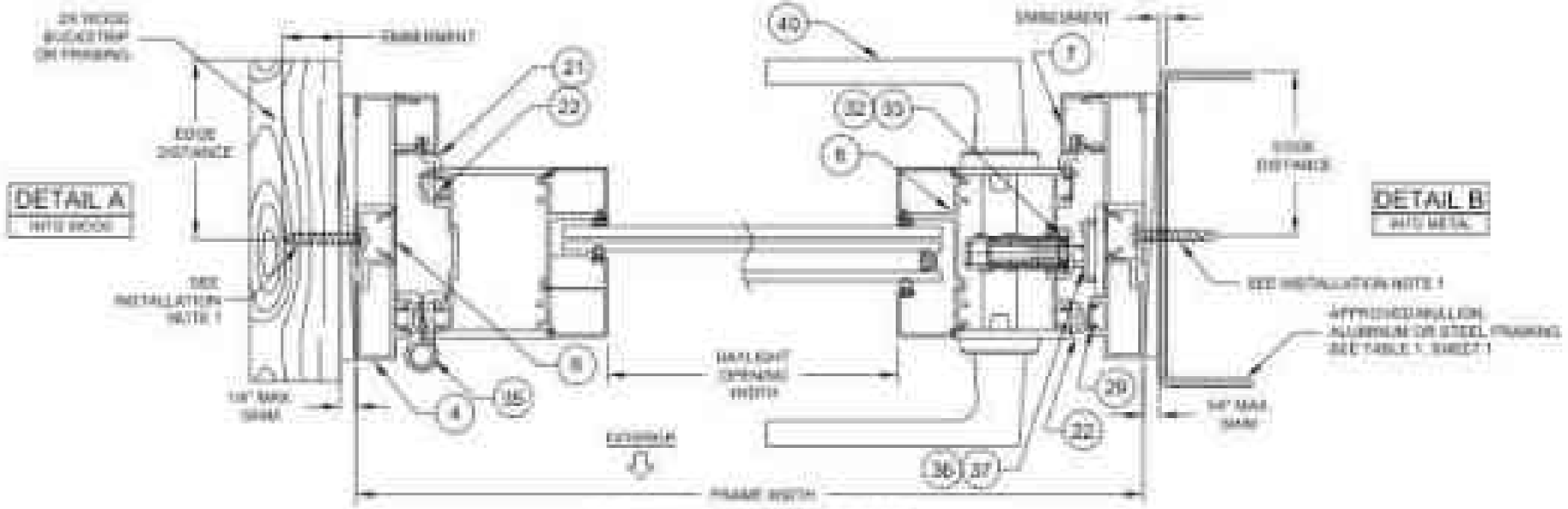
WE REQUIRE 4 CLUSTER ANCHORS IN THE HEAD AND 4 CLUSTER ANCHORS IN THE SILL USING THE SPACING SHOWN ON SHEET 16.

5) INSTALL USING THE CROSS-SECTION DRAWINGS ON SHEETS 18-24 AS A GUIDELINE.

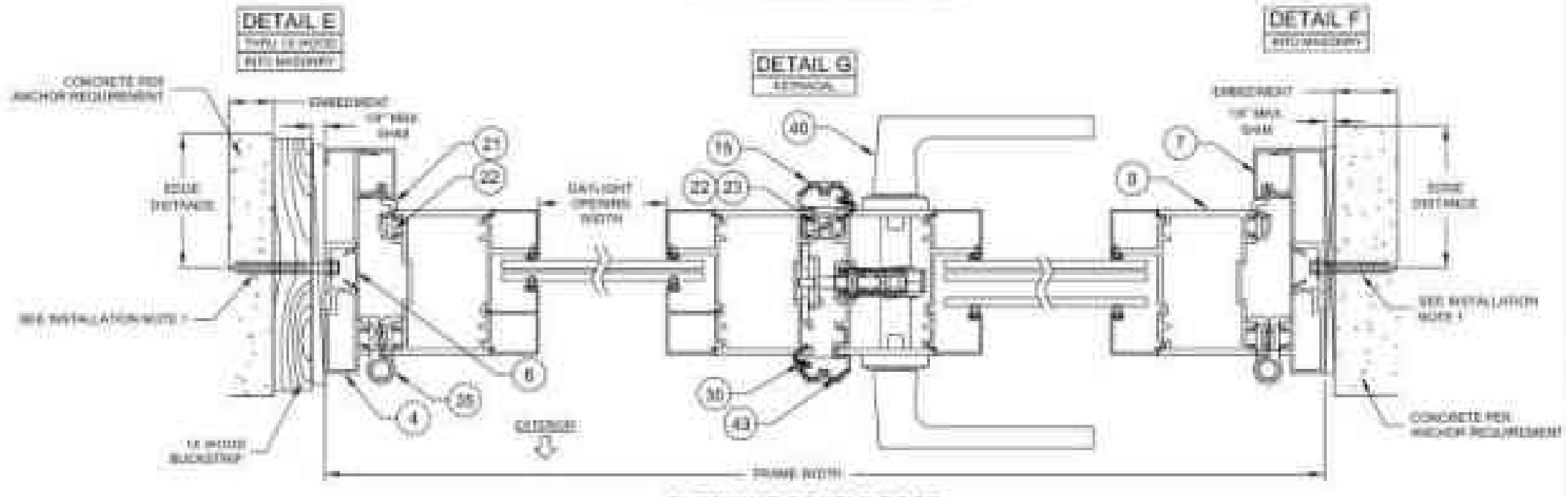



| | | | |
|---|---|---|---|
| NO CHANGES THIS SHEET | | | |
| UPDATE | | | |
| REVISION | | | |
| FORSHAW | | | |
| ALUMINUM IS & DS FRENCH DOOR (IN-SWING) | | | |
| JAMB ANCHORS & EXAMPLES | | | |
| FORSHAW | | | |
| 17 OF 36 | | | |
| FDS - FPA | | | |

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LICENSE
No. 56705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER P.E.
P.E.# 56705




OUTSWING SINGLE DOOR




OUTSWING DOUBLE DOOR

INSTALLATION NOTES:

1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS TO ALLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 1, SHEET 1 FOR DOORS AND TABLE 21, SHEET 1 FOR BOLLETES. ANY INSTALLATION OPTION SHOWN MAY BE USED. ALL ANCHOR HEAD TYPES ARE ALLOWED.

2) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED AS INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL, UNIT MAY BE INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS WHEN USED SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE MANUFACTURER ARCHITECT OF RECORD.

| | |
|---|---|
| PROJECT NO. | FD9988A - FPA |
| DRAWN BY | C. WEMPE |
| CHECKED BY | |
| DATE | 12/20/21 |
| ALUMINUM IG & OS FRENCH DOOR (1-3/4) | |
| OS HORIZ. X-SECTION DETAILS | |
| FD9988A | 16 OF 26 |

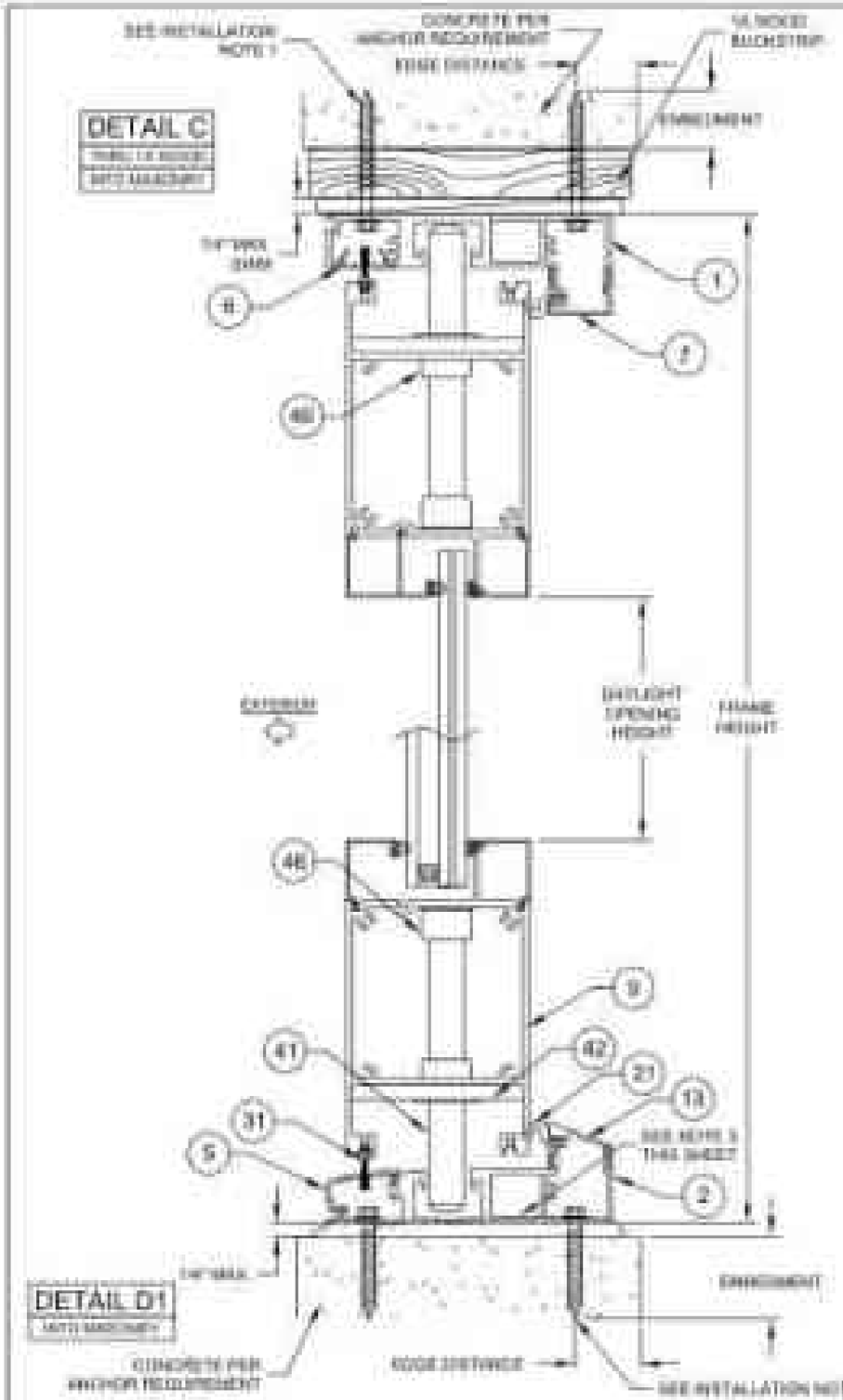
NO DIMENSIONS THIS SHEET

UPDATE

REVISIONS BY APPROVAL
1 ADDITIONAL DOOR SIZES
2 ADDITIONAL DOOR SIZES
3 ADDITIONAL DOOR SIZES
4 ADDITIONAL DOOR SIZES
5 ADDITIONAL DOOR SIZES
6 ADDITIONAL DOOR SIZES
7 ADDITIONAL DOOR SIZES
8 ADDITIONAL DOOR SIZES

TRIPLE DIAMOND
18 WEST FLAGLER
MIAMI, FL 33130
(305) 858-6100

ANTHONY LYNN MILLER
License
No. 56726
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 56726



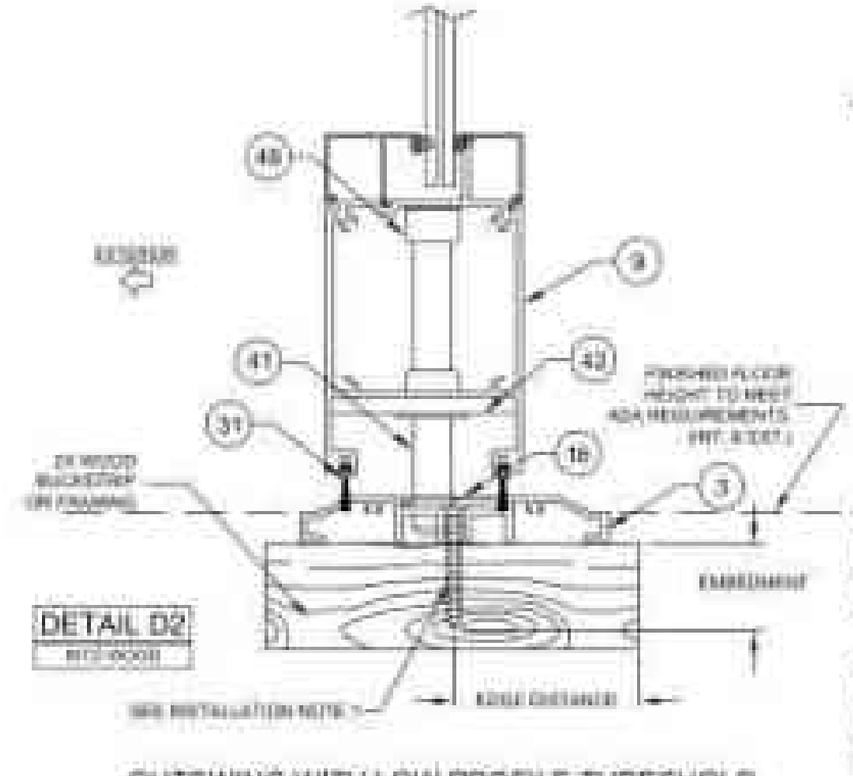

OUTSWING WITH STANDARD THRESHOLD

INSTALLATION NOTES:

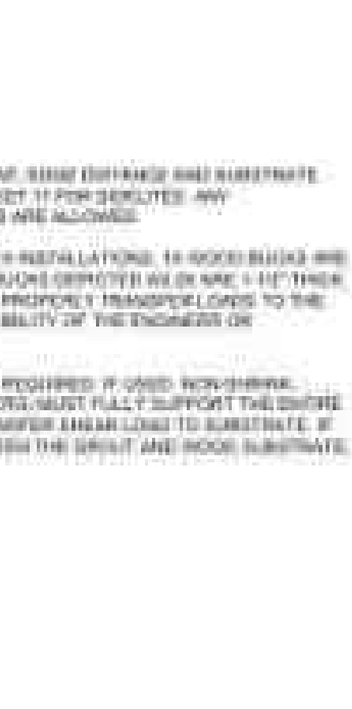
1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 1, SHEET 1 FOR DOORS AND TABLE 21, SHEET 17 FOR SIDELITES. ANY INSTALLATION OPTION SHOWN MAY BE USED. ALL ANCHOR HEAD TYPES ARE ALLOWED.

2) ALL WOOD BUCKS LESS THAN 1 1/2" THICK ARE TO BE CONSIDERED 1/4 INSTALLATIONS. 1/4 WOOD BUCKS ARE OPTIONAL, BUT MAY BE INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED WILL BE NAIL 1 1/2" THICK OR GREATER. 1/4 AND 2/4 BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

3) SP WILL BE TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, MIN. 1/4" THICK & 2400 PSI MIN., DONE BY OTHERS MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER ENTIRE 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.




OUTSWING WITH LOW PROFILE THRESHOLD




DOOR WATER INFILTRATION NOTES:

1) IF WATER INFILTRATION RESISTANCE IS REQUIRED, THE STANDARD THRESHOLD WITH AN OUTSWING CONFIGURATION MUST BE USED.

2) IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIGURE 1, THE LOW DESIGN PRESSURES SHOWN IN THE TABLES MAY BE USED AND BOTH THRESHOLDS ARE ACCEPTABLE.

| NO | CHANGES THIS SHEET | DATE |
|---|---|---|
| 1 | | |

ANTHONY LYNN MILLER
LICENSED
No. 56705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER P.E.
P.E.# 56705

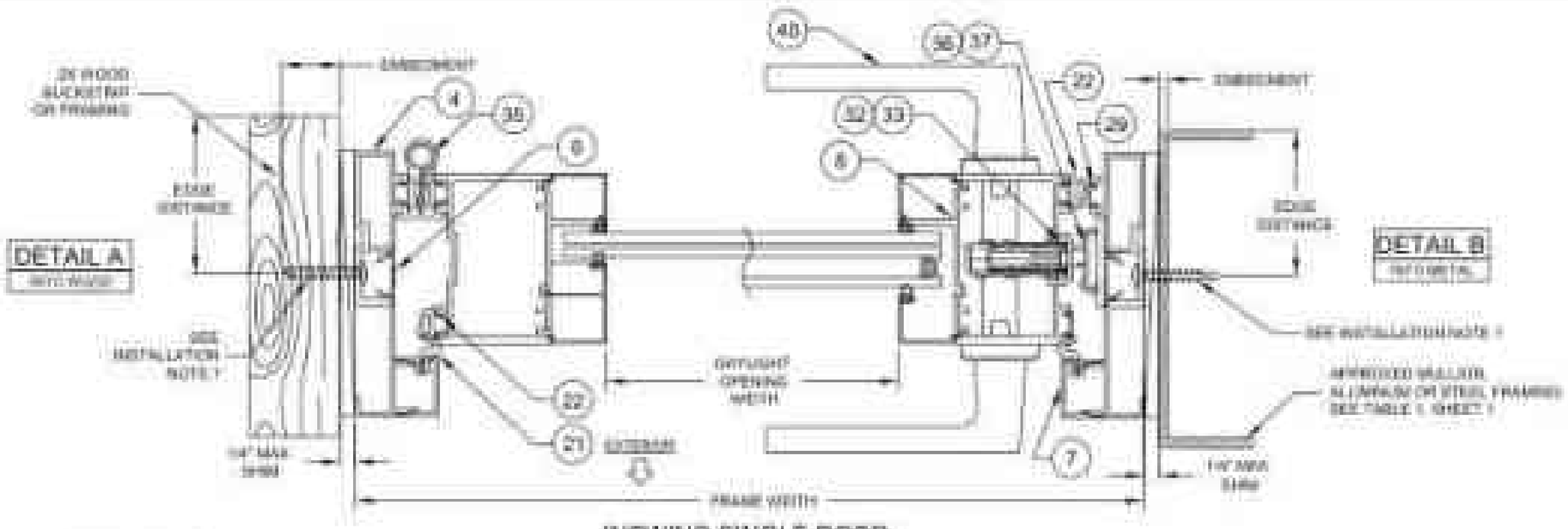
PRODUCED BY A LICENSED ARCHITECT OR ENGINEER
(SEE FLORIDA STATUTES 481.211 AND 471.003(2)(h))
N. WINDOW AND DOOR
MANUFACTURERS ASSOCIATION
1400 E. TOUHY AVE., SUITE 470
DES PLAINES, IL 60018
(847) 299-5200
WWW.NWDA.ORG

ALUMINUM (S & D) FRENCH DOOR (LM)

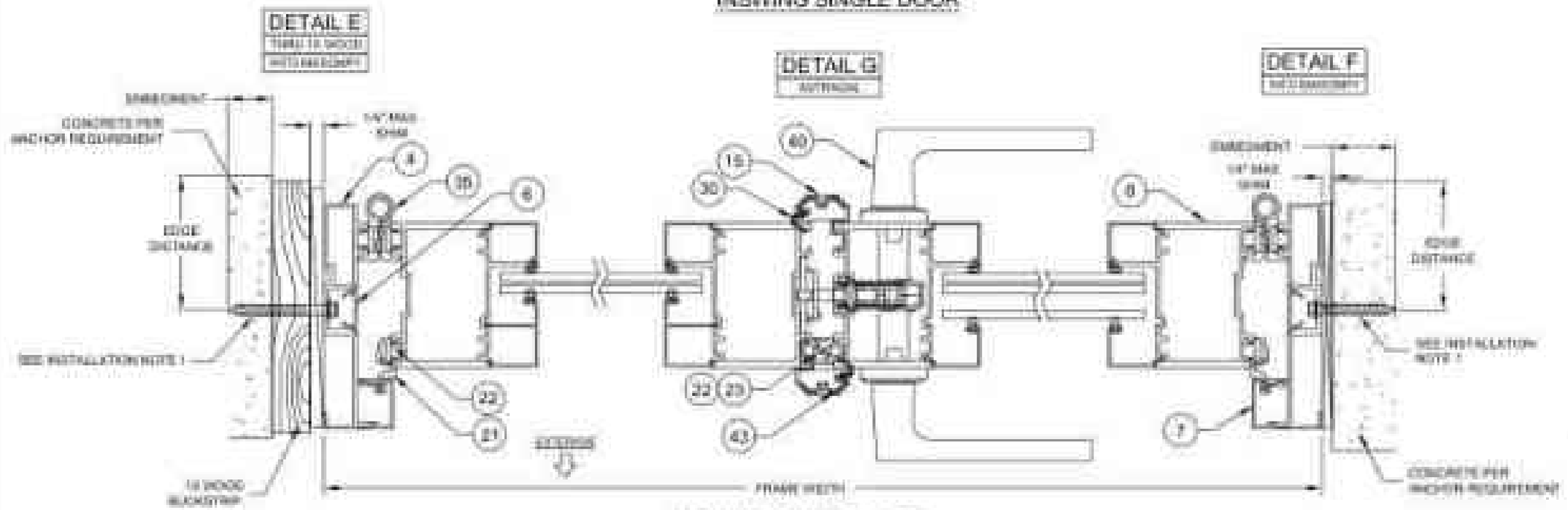
C. WERNER

DS VERT. X-SECTION DETAILS

FD09002A | 19 OF 36 | FD09002A




INSWING SINGLE DOOR




INSWING DOUBLE DOOR

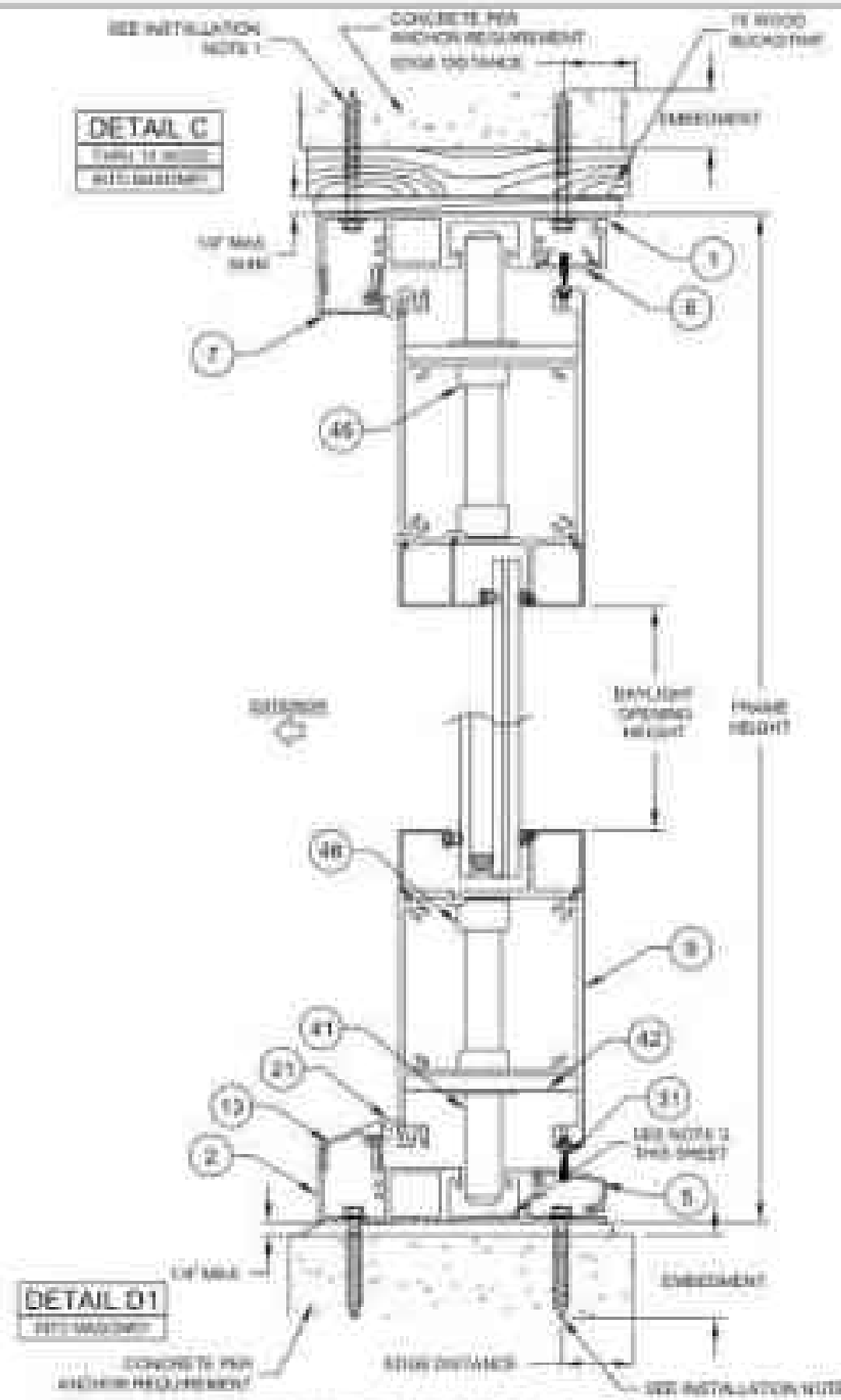
INSTALLATION NOTES:

1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS, FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 1, SHEET 1 FOR SHOWN AND TABLE 21, SHEET 11 FOR DETAILED. ANY INSTALLATION OPTION SHOWN MAY BE USED. ALL ANCHOR HEAD TYPES ARE ALLOWED.

2) ALL WOOD BUCKS LESS THAN 1 1/2" THICK ARE TO BE CONSIDERED AS INSTALLATIONS. AS WOOD BUCKS ARE OPTIONAL, UNIT MAY BE INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS OR ARE 1 1/2" THICK OR GREATER. AS AND EA BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE MANUFACTURER OR ARCHITECT OF RECORD.

| | | | |
|---|---|---|---|
| ADD DIMENSIONS THIS SHEET | | | |
| FDS60M - FPA - WINDOW | | | |
| ALUMINUM IS & OS FRENCH DOOR (1-MULLION) | | | |
| IS HORIZ. X-SECTION DETAILS | | | |
| FDS60MA | 20 OF 26 | | |

ANTHONY LYNN MILLER
LICENSE
NO. 56705
STATE OF
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E. # 56705



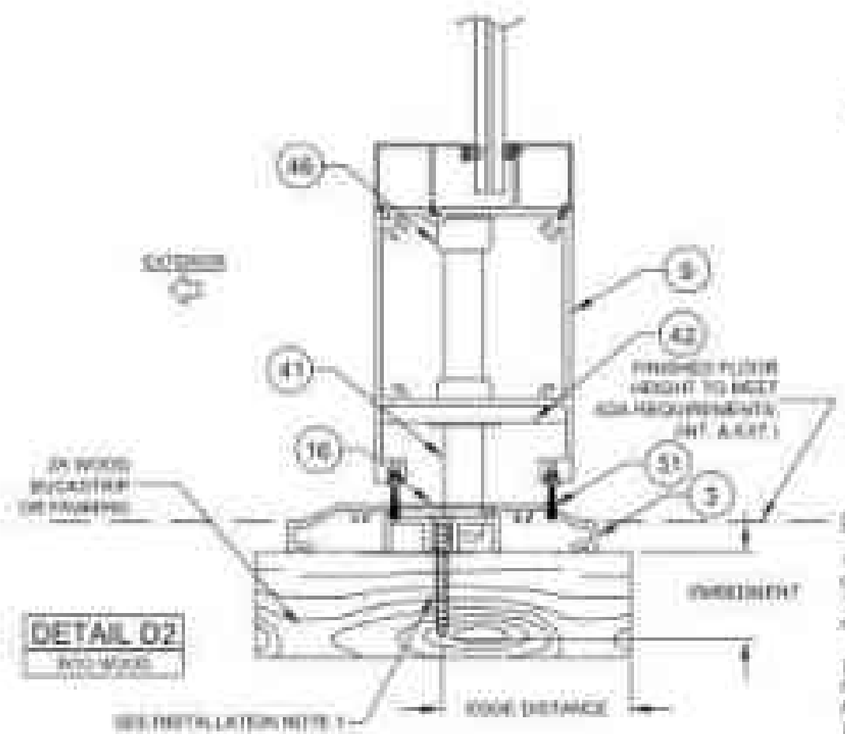

INSWING WITH STANDARD THRESHOLD

INSTALLATION NOTES:

1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS (YIELDS EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 1, SHEET 1 FOR DOORS AND TABLE 21, SHEET 31 FOR SIDELITES). ANY INSTALLATION OPTION SHOWN MAY BE USED. ALL ANCHOR HEAD TYPES ARE ALLOWED.

2) ALL WOOD BUCKS LESS THAN 1 1/2" THICK ARE TO BE CONSIDERED TO INSTALLATIONS TO WOOD BUCKS ARE OPTIONAL, UNIT MAY BE INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS (SPECIFIED WILDER APE 1 1/2" THICK OR GREATER, 1X AND 2X BUCKS, WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

3) SHILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, MAX. 1/4" THICK & 2400 PSI MIN. >DONE BY OTHERS< MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER WIND 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.




INSWING WITH LOW PROFILE THRESHOLD

FIGURE 1




DOOR WATER INFILTRATION NOTES:

1) IF WATER INFILTRATION RESISTANCE IS REQUIRED, THE STANDARD THRESHOLD WITH AN OUTSWING CONFIGURATION MUST BE USED.

2) IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIGURE 1, THE (+) DESIGN PRESSURES SHOWN IN THE TABLES MAY BE USED AND BOTH THRESHOLDS ARE ACCEPTABLE.

| NO | CHANGES THIS SHEET | DATE |
|---|---|---|
| 1 | | |

| | |
|---|---|
| PRODUCED BY: | |
| 6711 TOWNHALL ROAD | |
| N. VENICE, FL 34275 | |
| PHONE: | |
| WEBSITE: | |
| PROJECT: | |
| ADDRESS: | |
| CITY, STATE, ZIP: | |
| ARCHITECT: | |
| ADDRESS: | |
| CITY, STATE, ZIP: | |
| PHONE: | |
| ENGINEER: | |
| ADDRESS: | |
| CITY, STATE, ZIP: | |
| PHONE: | |

ALUMINUM IG & IG FRENCH DOOR (LM)

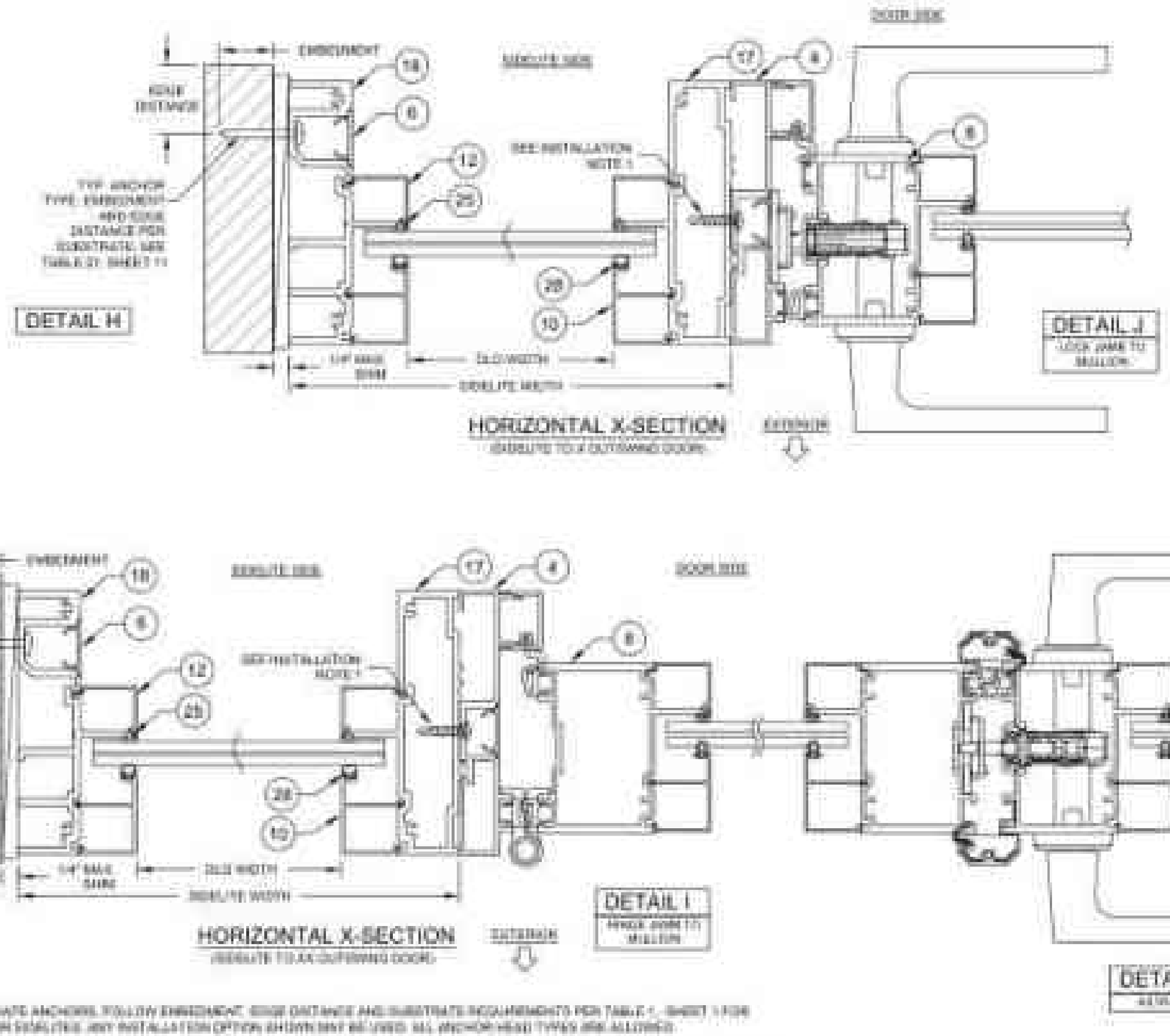
IG VERT. X-SECTION DETAILS

FD5960A

31 OF 36

FD5960A - FPA

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




INSTALLATION NOTES:

1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS, FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 1 - SHEET 1 FOR SHOWN AND TABLE 21 SHEET 11 FOR DETAILS. ANY INSTALLATION OPTION SHOWN MAY BE USED. ALL ANCHOR HEAD TYPES ARE ALLOWED.

2) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED AS INSTALLATIONS. 1X WOOD SHIMS ARE OPTIONAL. UNIT MAY BE INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 2X AND 2X BUCKS WHEN USED SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

| | | | |
|---|---|---|---|
| 1 | 1/22/21 | ADD DRAWING SHEET | MS |
| | | | |

ALUMINUM IS 69 FRENCH DOOR (LH)

SILL HORZ. X-SECTION DETAILS

FD6900A | 22 OF 22 | FD6900A

PROJECT NO.

DRAWN BY: MS

CHECKED BY: MS

DATE: 1/22/21

SCALE: 3" = 1'-0"

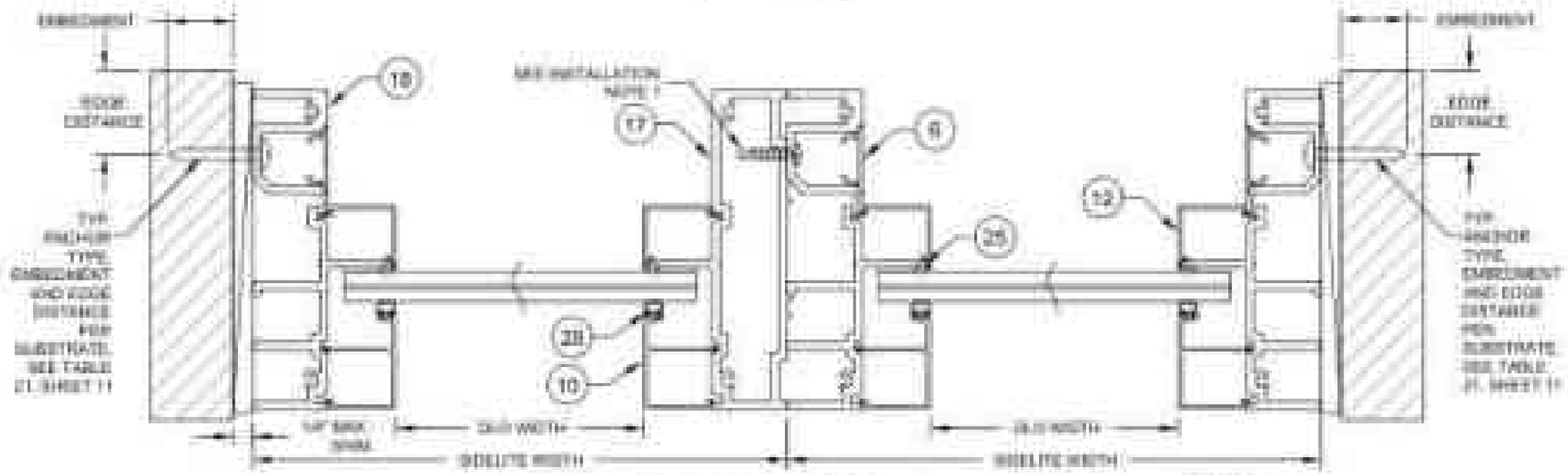

MEGHAN LYNN MILLER
LICENSE
No. 56705
STATE OF
OREGON
PROFESSIONAL ENGINEER
MEGHAN LYNN MILLER, P.E.
P.E.# 56705

WINDOW SIZE FORMULAS:
NARROW STYLE SIZE = FRAME WIDTH OR HEIGHT – 4 1/2"
WIDE STYLE WINDOW SIZE = WIDTH OR HEIGHT – 13 1/8"

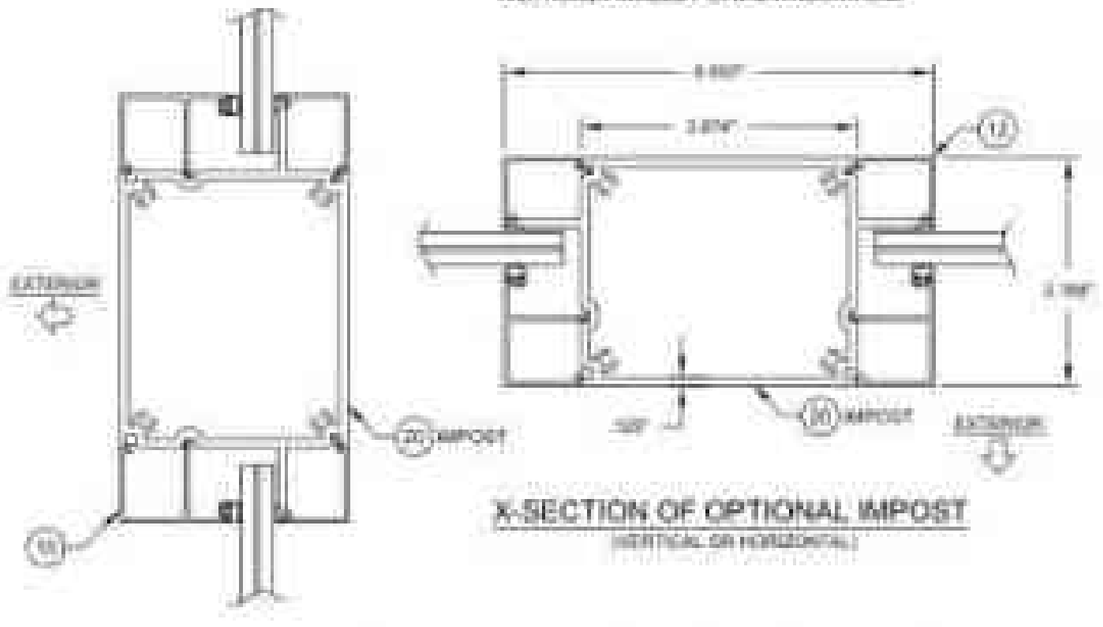
DETAIL H

DETAIL K
SIDELITE JAMB
TO MULLION

DETAIL L




HORIZONTAL X-SECTION
(VERTICALLY MULLED PICTURE WINDOW DIO)




X-SECTION OF OPTIONAL IMPOST
(VERTICAL OR HORIZONTAL)

IMPOST NOTES

1) IMPOSTS MAY BE VERTICAL OR HORIZONTAL, SINGLE OR IN MULTIPLE QUANTITIES.

2) IMPOSTS MAY BE USED IN ANY DOOR OR WINDOW CONFIGURATION.

3) IMPOST MAY NOT CROSS ANOTHER IMPOST, I.E. NO "T" OR "CROSS" PATTERNS.

4) A MIXTURE OF GLAZING TYPES WITHIN THE SAME UNIT IS ALLOWED.

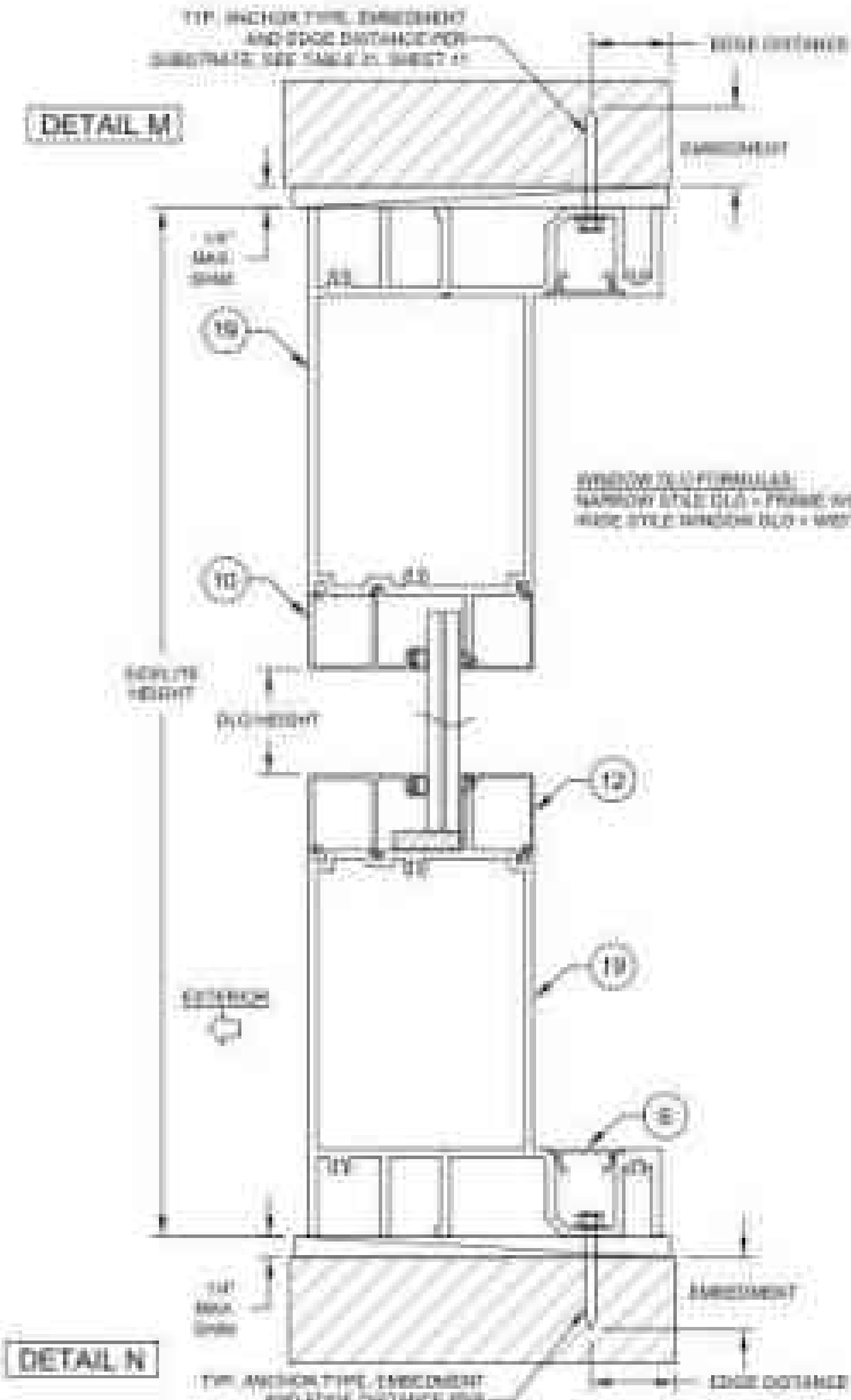
INSTALLATION NOTES:

1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS, FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 1, SHEET 1 FOR DOORS AND TABLE 21, SHEET 11 FOR SIDELITES. ANY INSTALLATION OPTION SHOWN MAY BE USED. ALL ANCHOR HEAD TYPES ARE ALLOWED.

2) ALL WOOD BUCKS LESS THAN 1 1/2" THICK ARE TO BE CONSIDERED 1% INSTALLATIONS. 1% WOOD BUCKS ARE OPTIONAL, UNIT MAY BE INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1 1/2" THICK OR GREATER. 1X AND 2X BACKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

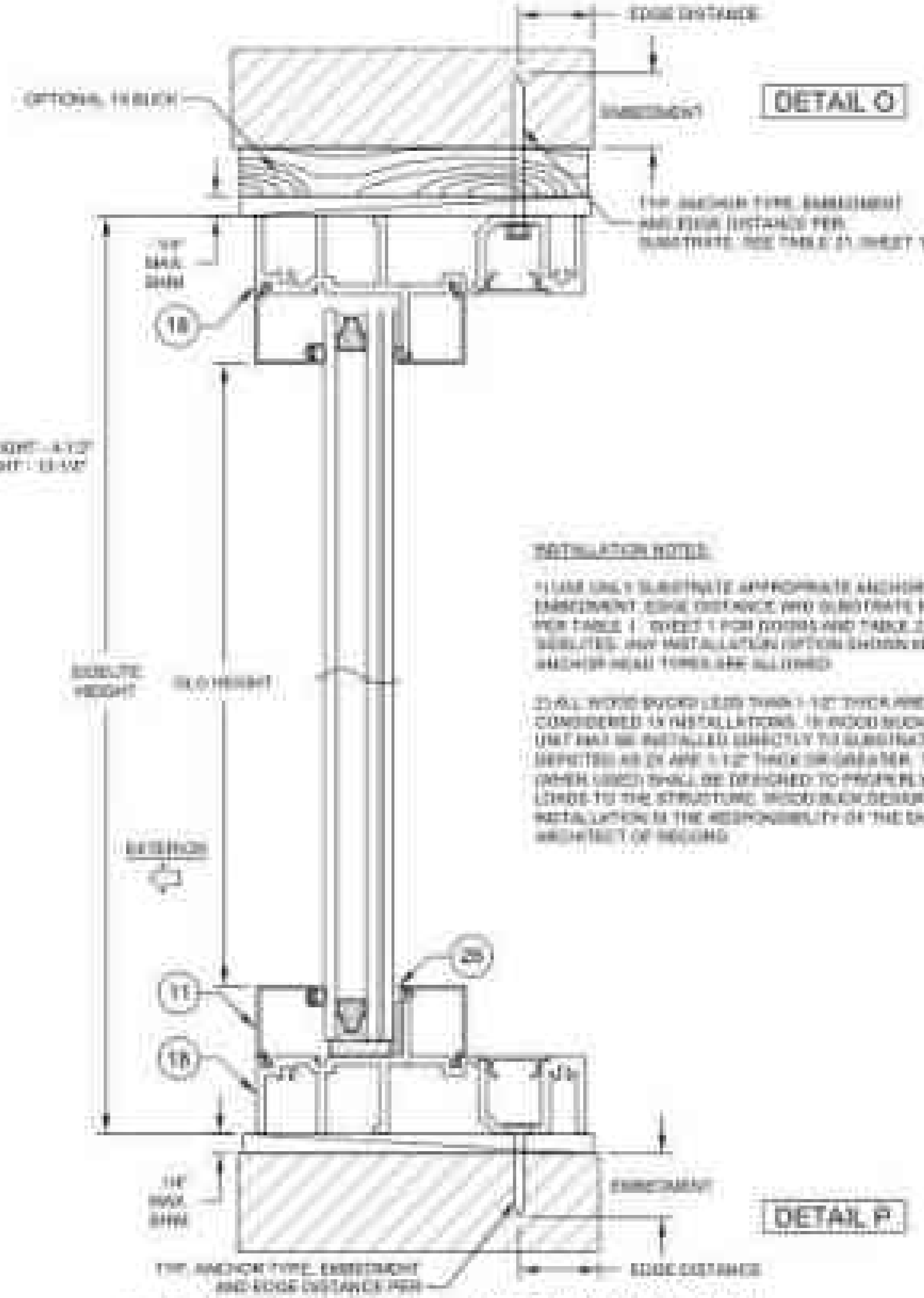
| | |
|---|---|
| REVISION | ADDED OPT. IMPOST - 1X |
| ALUMINUM 10 & 20S FRENCH DOOR & WINDOW | |
| SILHORIZ. X-SECTION DETAILS | |
| DRAWING NO. | 23 OF 36 |
| DRAWN BY | FDA |
| CHECKED BY | |
| DATE | |

ANTHONY LYNN MILLER
LICENSED
No. 56706
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 56706




**VERTICAL X-SECTION**
(WIDE RAIL SIDELITE)

WINDOW DLO FORMULAS:
NARROW STILE DLO = FRAME WIDTH OR HEIGHT - 4-1/2"
WIDE STILE WINDOW DLO = WIDTH OR HEIGHT - 13-1/2"




**VERTICAL X-SECTION**
(NARROW RAIL SIDELITE)

INSTALLATION NOTES:

1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS. FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 1, SHEET 1 FOR DOORS AND TABLE 21, SHEET 11 FOR SIDELITES. ANY INSTALLATION OPTION SHOWN MAY BE USED. ALL ANCHOR HEAD TYPES ARE ALLOWED.

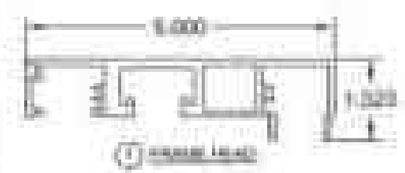
2) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL. UNIT MAY BE INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

NO CHANGES THIS SHEET

ALUMINUM IS & OS FRENCH DOOR (LM)
SL VERT. X-SECTION DETAILS
C. KEMP
FD0950A
FD0950LM - FPA
24 OF 26

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

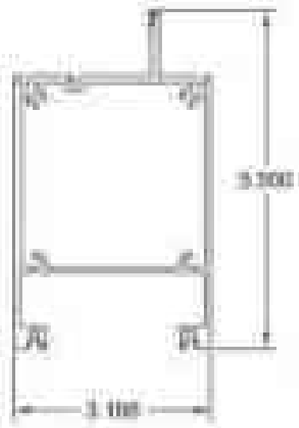
| # | Part # | Description | Material |
|---|---|---|---|
| 1 | 21000 | Frame Head | 6063-T6 |
| 2 | 21001 | Frame Sill | 6063-T6 |
| 3 | 21002 | Low Profile Sill | 6063-T6 |
| 4 | 21003 | Frame Jamb | 6063-T6 |
| 5 | 21004 | Weatherstrip Cover | 6063-T6 |
| 6 | 21005 | Glazing Chan | 6063-T6 |
| 7 | 21006 | Frame Adapter | 6063-T6 |
| 8 | 21010 | Panel Stile | 6063-T6 |
| 9 | 21009 | Top Rail/Bottom Rail | 6063-T6 |
| 10 | 21014 | Lever Bevel | 6061-T6 |
| 11 | 21042 | D Bevel | 6063-T6 |
| 12 | 21015 | Master Bevel | 6063-T6 |
| 13 | 21000 | Sill Riser | 6063-T6 |
| 14 | 21070 | Stile Extruder | 6063-T6 |
| 15 | 21011 | Astragal | 6063-T6 |
| 16 | 21004 | Low Profile Sill Cover | 6063-T6 |
| 17 | 22046 | Panel Retainer | 6063-T6 |
| 18 | 22049 | Narrow Glazing Rail | 6063-T6 |
| 19 | 21007 | Inside Top/Bottom Middle Rail | 6063-T6 |
| 20 | 1183 | Insert | 6063-T6 |
| 21 | 21047 | Frame Gasket | PVC |
| 22 | 21040 | Stile Gasket | PVC |
| 23 | 21105 | Sill Gasket | PVC |
| 24 | 121026 | Glazing Vinyl Large | PVC |
| 25 | 21046 | Glazing Vinyl Kit | PVC |
| 26 | 21043 | Large Glazing Leg Weatherstrip | PVC |
| 27 | 41822 | Glazing Bulb | PVC |
| 28 | 21051 | Sweeping 6 Jb Weatherstrip | PVC |
| 29 | 2202081 | Pile Groove Cover | PVC |
| 30 | 21160 | Drum Plug | ELDA |
| 31 | 21042 | Nail Gasket | Wool/poly |
| 32 | 22016 | Lock | SS |
| 33 | 22051 | Lock Escutcheon | SS |
| 34 | 21006 | Heavy Duty Hinge | Aluminum |
| 35 | 22014 | Striker | SS |
| 36 | 22015 | Keeper | SS |
| 37 | 21106 | Keeper Stem | PET |
| 38 | 21107 | Strike Shim | PET |
| 39 | 22001 | Handle | Zinc Coat |
| 40 | 21020 | Thumb Bolt | SS |
| 41 | 21008 | Thumb Bolt Plate | 6063-T6 |
| 42 | 21003 | Astragal Cap | PET |
| 43 | 21007 | Threshold Rail | SS |
| 44 | 21002 | Manual Screw | Zinc Coat |
| 45 | 21009 | Bolt Guide | PET |
| 46 | 21023 | Hinge Fastener | Zinc Coat SS |
| 47 | 22015 | Hammerhead Fastener #32 TPI | steel |
| 48 | screw | Screws Super Modular | steel |
| 49 | screw | Screw (2 Sizes) | steel |
| 50 | | Fin Weld Only (Size 101, 161 or 162) 77 Duro | Silicone |
| 51 | | Glazing Stop, 0.25" | EPDM |









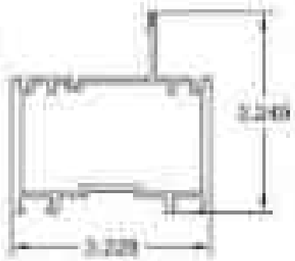




















































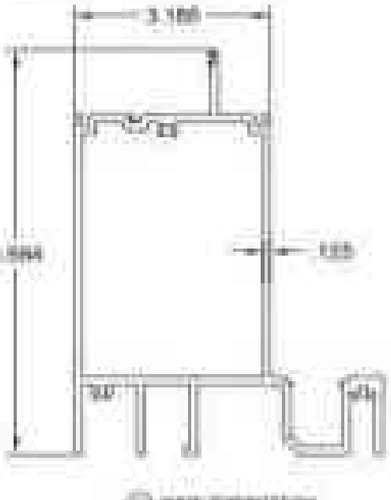











| REVISIONS - FPA | | | |
|---|---|---|---|
| FDS99CNA | 1 | 12/20/24 | ADDED OPT. IMPOST - DK |
| FDS99CNA | 2 | 12/20/24 | UPDATE |

| | | | |
|---|---|---|---|
| PROJECT NO. 2024-0000 | DRAWN BY: TRISTAN JONES | ALUMINUM IS & OS FRENCH DOOR FLAT GLASS | FDS99CNA |
| | | EXTRUSIONS & BOM | SHEET 2 OF 2 |

ANTHONY LYNN MILLER
LICENSE
NO. 56705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E. # 56705