



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

**Ultimate Door of Palm Beach, Inc.**  
**2800 North 2<sup>nd</sup> Avenue**  
**Lake Worth, FL 33461**

**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 Alum Clad Outswing Wood French Doors – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **1748 Rev B**, titled series "Aluminum Clad Wood Impact Out-Swing French Doors," Sheets 1 through 17 of 17, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 01/11/16 and last revised on SEP 02, 2025, signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**Limitations:**

1. Max. Single partial raised panel allowed is 26" W X 32"H= 832 in<sup>2</sup> or multi-mid rails with partial raised panel **not** to exceed 832 in<sup>2</sup> total area. Positive DP exceeding +50 PSF require overhang complying w/FBC requirement.
2. Except where cluster anchors are specified, the #8 nail fin perimeter fasteners must not exceed 9" O.C.
3. Min four (4) frame screws at mullion end (Sill) are required, when tributary load width is 33-1/2" or less or when mullion span is 96" or less.
4. Direct Glazed Windows (DWG Ref. # **1749**) by Ultimate Door are under current separate NOA.

**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 **renews NOA # 23-0713.25** and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4, E-5 & E-6, as well as approval document mentioned above.

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



*10/14/25*

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. Evidence submitted in previous files**

**A. DRAWINGS**

1. Manufacturer's parts drawings and sections (submitted under files listed below)
2. Drawing No. **1748 Rev, A**, titled series "Aluminum Clad Wood Impact Out-Swing French Doors," Sheets 1 through 17 of 17, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated JAN 11, 2016, signed and sealed by Warren W. Schaefer, P.E.

**B. TESTS (submitted under files #14-0424.02/#12-0410.11/#11-0310.01)**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of outswing alum clad wood French doors w/ mullions, an alum clad outswing Arch double wood door and alum clad outswing Rectangular double wood doors, prepared by Architectural Testing Lab, Test Report No. **B5667.02-450-18** dated 07/02/12, signed and sealed by Vinu Abraham, P. E.

2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94

along with marked-up drawings and installation diagram of an out-swinging wood clad aluminum French door prepared by Hurricane Test Laboratory, LLC, Test Reports No.'s **HTL-0026-1008-94** and **HTL-0026-0214-97**, dated 11/14/94 and 01/09/97, **HTL-0026-1017-99**, dated 10/22/99, all signed and sealed by Timothy Marshall, P. E. and Test Laboratory, LLC, Test Report No. **HTL-0026-1212-99**, dated 12/08/99, signed and sealed by Vinu J. Abraham, P. E. (submitted under file # **11-0310.01**)

3. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of an out-swinging wood clad aluminum French door, prepared by Hurricane Test Laboratory, LLC, Test Reports No.'s **HTL-0026-1023-95**, **HTL-0026-0508-95** and **HTL-0026-1212-99**, dated 1/23/95, 5/12/95 and 12/08/99, **HTL-0026-0913-96**, dated 06/26/97 and 09/23/96, **HTL-0026-0508-95** and **HTL-0026-0123-95**, dated 01/23/95 and 05/12/95, all signed and sealed by Timothy Marshall, P. E. (under file # **11-0310.01**)

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings of pair of outswing wood and fixed lite (OOX) & XX/O, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0026-0320-97**, dated 03/27/97, **HTL-0026-0405-97**, dated 08/27/97 and **HTL-0026-0214-97 (TAS- 201)**, dated 05/09/97, all signed and sealed by Timothy Marshall, P. E. (transferred from file # **11-0310.02**)

Note: The original tests conducted were per SFBC PA 202, 201 and 203-94, now termed as FBC, TAS 202, 201 and 203-94.



Ishaq I. Chanda, P.E.

Product Control Unit Supervisor

NOA No. 25-0908.04

Expiration Date: April 16, 2031

Approval Date: October 23, 2025



**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2014(5<sup>th</sup> Edition), prepared by W. W. Schaefer Engineering & Consulting, P.A., dated JAN 11, 2016, signed and sealed by Warren W. Schaefer, 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).

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** (Former E.I. DuPont DeNemours & Co., Inc. for the "**Sentry Glass ® (Clear and White) Glass Interlayers**", expiring on 07/04/18.

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2014(5<sup>th</sup> Edition) and letter of no financial interest, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated JAN 11, 2016, signed and sealed by Warren W. Schaefer, P.E.
2. Lab compliance as part of the above referenced test reports.

**G. OTHER**

1. This NOA **revises & renews** NOA # **#14-0424.02**, expiring on April 16, 2021.
2. Reference Series Un-clipped wood mullion NOA # 11-0310.02.
3. Test proposal dated 03-10-11 and e-mail correspondence approval dated 08-02-12 approved by PERA.
4. Previous associated files are NOA(s) #12-0410.11/#11-0310.01, # 05-0824.03, 01-0327.01, 00-0912.03, 99-0317.06 and 97-0912.01.

**2. Evidence submitted in previous files.**

**A. DRAWINGS**

1. None.

**B. Test**

1. None.

**C. CALCULATIONS**

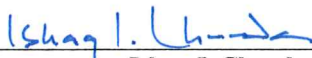
1. None.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None.

  
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Ishaq I. Chanda, P.E.  
Product Control Unit Supervisor  
NOA No. 25-0908.04  
Expiration Date: April 16, 2031  
Approval Date: October 23, 2025

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2014(5<sup>th</sup> Edition) & FBC 2017 (6<sup>th</sup> Edition), prepared by W. W. Schaefer Engineering & Consulting, P.A., dated July 21, 2017, signed and sealed by Warren W. Schaefer, P.E.

**G. OTHER**

1. This NOA revises NOA # 16-0114.08, expiring on 04/16/21.

**3. Evidence submitted under previous approval.**

**A. DRAWINGS**

1. None.

**B. Test**

1. None.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**


1. Notice of Acceptance No. 17-0808.02 issued to Kuraray America, Inc. (Former E.I. DuPont DE Nemours & Co., Inc. for the "Sentry Glass ® (Clear and White) Glass Interlayers", expiring on 07/04/2023.

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2020 (7<sup>th</sup> Edition), prepared by W. W. Schaefer Engineering & Consulting, P.A., dated Jun 05, 2020, signed and sealed by Warren W. Schaefer, P.E.

**G. OTHER**

1. This NOA revises NOA # 17-0803.03, expiring on 04/16/21.

  
Ishaq I. Chanda, P.E.  
Product Control Unit Supervisor  
NOA No. 25-0908.04  
Expiration Date: April 16, 2031  
Approval Date: October 23, 2025



**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**4. Evidence submitted under previous approval.**

**A. DRAWINGS**

1. Drawing No. **1748 Rev, A**, titled series "Aluminum Clad Wood Impact Out-Swing French Doors," Sheets 1 through 17 of 17, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated March 01, 2021, signed and sealed by Warren W. Schaefer, P. E.

**B. Test**

1. None.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **17-0808.02** issued to **Kuraray America, Inc.** (Former E.I. DuPont DE Nemours & Co., Inc. for the "**Sentry Glass ® (Clear and White) Glass Interlayers**", expiring on 07/04/2023.

**F. STATEMENTS**

1. Statement letter from Ultimate Door dated 02/03/21, asking for renewal with no change, signed by Ms. Jessica Covey, office manager.
2. Statement letter of conformance to FBC 2020 (7<sup>th</sup> Edition), prepared by W. W. Schaefer Engineering & Consulting, P.A., dated Jun 05, 2020, signed and sealed by Warren W. Schaefer, P.E. (submitted under file #**20-0623.17**)

**G. OTHER**

1. This NOA **renews** NOA # **20-0623.17**, expiring on 04/16/26.



Ishaq I. Chanda, P.E.  
Product Control Unit Supervisor  
NOA No. 25-0908.04  
Expiration Date: April 16, 2031  
Approval Date: October 23, 2025

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**5. Evidence submitted under previous approval.**

**A. DRAWINGS**

1. Drawing No. **1748 Rev, A**, titled series "Aluminum Clad Wood Impact Out-Swing French Doors," Sheets 1 through 17 of 17, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated March 01, 2021, signed and sealed by Warren W. Schaefer, P. E.

**B. Test**

1. None.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

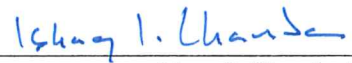
1. Notice of Acceptance No. **22-1116.01** issued to **Kuraray America, Inc.** (Former E.I. DuPont DE Nemours & Co., Inc. for the "**Sentry Glass ® (Clear and White) Glass Interlayers**", expiring on 07/04/2028.

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2023 (**8<sup>th</sup> Edition**), prepared by W. W. Schaefer Engineering & Consulting, P.A., dated July 01, 2023, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of conformance to FBC 2020 (**7<sup>th</sup> Edition**), prepared by W. W. Schaefer Engineering & Consulting, P.A., dated Jun 05, 2020, signed and sealed by Warren W. Schaefer, P.E. (submitted under file #**20-0623.17**)

**G. OTHER**

1. This NOA **revises** NOA # **21-0308.03**, updates to FBC 2023, expiring on 04/16/26.



Ishaq I. Chanda, P.E.  
Product Control Unit Supervisor  
NOA No. 25-0908.04  
Expiration Date: April 16, 2031  
Approval Date: October 23, 2025



NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

6. New Evidence submitted.

A. DRAWINGS

1. Drawing No. **1748 Rev B**, titled series "Aluminum Clad Wood Impact Out-Swing French Doors," Sheets 1 through 17 of 17, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 01/11/16 and last revised on SEP 02, 2025, signed and sealed by Warren W. Schaefer, P.E.

B. Test

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

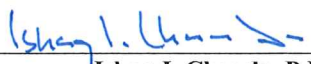
1. Notice of Acceptance No. **22-1116.01** issued to **Kuraray America, Inc.** (Former E.I. DuPont DE Nemours & Co., Inc. for the "**Sentry Glass ® (Clear and White) Glass Interlayers**", expiring on 07/04/2028.
2. Quality Milwork test report # RD2009-02a dated 02-10-09, issued to Ultimate Door for Pine MOE (Modulus of Elasticity) and MOR (Modulus of Rigidity), approved by Tony Hester.

F. STATEMENTS

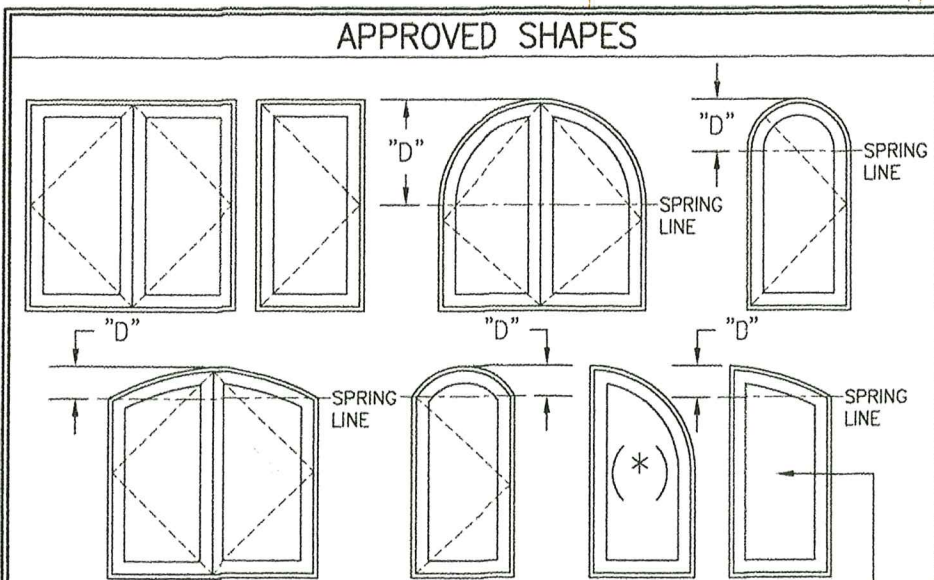
1. Statement letter of conformance to FBC 2023 (**8<sup>th</sup> Edition**), prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 09/02/25, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter dated AUG 28, 2025, issued by Ultimate Doors requesting renewal without any changes, signed by Roger Warwick, president.
3. Statement letter dated 09/02/25 stating no drawing change, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

G. OTHER

1. This NOA **renews** NOA # **231-0713.25**, expiring on 04/16/31.

  
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Ishaq I. Chanda, P.E.  
Product Control Unit Supervisor  
NOA No. 25-0908.04  
Expiration Date: April 16, 2031  
Approval Date: October 23, 2025





NOTES:

1. FIXED PANEL DOOR FRAME WIDTH SHALL NOT BE GOVERNED BY SHAPE OF DOOR.
2. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION AS DESCRIBED IN THIS DRAWING.
3. THE SHAPES LABELED (\*) ARE ONLY APPLICABLE TO FIXED PANEL DOORS (NOT APPLICABLE TO OPERABLE DOORS).

THIS SHAPE MAY BE USED AS AN OPERABLE DOOR ONLY IF SPRING LINE HEIGHT ABOVE SILL IS 80" OR MORE

HINGE REQUIREMENTS  
(HALF-ROUND TOP DOUBLE DOORS)

PANEL HEIGHT	QUANTITY PER PANEL
OVER 96"	4
96" OR LESS	3

NOTES:

1. HINGE CENTERLINES SHALL BE LOCATED APPROXIMATELY 3 1/2" BELOW FRAME SPRING-LINE, 9 1/4" ABOVE BOTTOM OF SILL AND EQUALLY SPACED BETWEEN.

HINGE REQUIREMENTS  
(RECTANGULAR & EYEBROW TOP DOUBLE DOORS & ALL SINGLE DOORS)

PANEL HEIGHT	QUANTITY PER PANEL
OVER 96"	5
96" OR LESS	4

NOTES:

1. HINGE CENTERLINES SHALL BE LOCATED APPROXIMATELY 7 1/2" BELOW TOP OF DOOR FRAME OR BELOW FRAME SPRING-LINE, 9 1/4" ABOVE BOTTOM OF SILL AND EQUALLY SPACED BETWEEN.

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/HINGE/ FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME & HINGE SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 16 GA. 60 KSI METAL STUD	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
(2) MIN. C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2"

(2) NAILING FIN FASTENERS

MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 1/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).

(2) CMU IS NOT APPLICABLE AT THE HEAD AND SILL.

ALLOWABLE DESIGN PRESSURE  
(ALL SINGLE & DOUBLE RECTANGULAR OPERABLE DOORS & ALL SINGLE FIXED PANEL DOORS)

(2) MAX. FRAME HEIGHT (IN.)	(2) MAX. FRAME WIDTH (IN.)	ALLOWABLE PRESSURE (1) (PSF)	
		POS.	NEG.
SINGLE DOORS			
120	43 1/2	50.0	50.0
	40 1/2	53.7	53.7
	37 1/2	58.0	58.0
	34 1/2	63.0	63.0
	32 1/2	65.0	65.0
108	43 1/2	55.6	55.6
	40 1/2	59.7	59.7
	37 1/2	64.4	64.4
	36 1/2	65.0	65.0
	43 1/2	58.8	58.8
102	40 1/2	63.2	63.2
	38 1/2	65.0	65.0
	43 1/2	62.5	62.5
96	41 1/2	65.0	65.0
92	43 1/2	65.0	65.0
DOUBLE DOORS			
120	84	50.0	50.0
	78	53.8	53.8
	72	58.3	58.3
	66	63.6	63.6
	64	65.0	65.0
108	84	55.6	55.6
	78	59.8	59.8
	72	64.8	64.8
	71	65.0	65.0
	84	58.8	58.8
102	78	63.3	63.3
	76	65.0	65.0
	84	62.5	62.5
96	80	65.0	65.0
92	84	65.0	65.0

ALLOWABLE DESIGN PRESSURE  
(SINGLE & DOUBLE SHAPED TOP OPERABLE DOORS)

MAX. FRAME HEIGHT (IN.)	MAX. FRAME WIDTH (IN.)	ALLOWABLE PRESSURE (1) (PSF)	
		POS.	NEG.
SINGLE DOORS			
120	37 1/2	50.0	50.0
	34 1/2	54.3	54.3
	31 1/2	59.3	59.5
	28 1/2	65.0	65.0
108	37 1/2	55.6	55.6
	34 1/2	60.4	60.4
	31 1/2	65.0	65.0
102	37 1/2	58.8	58.8
	34 1/2	63.9	63.9
	33 1/2	65.0	65.0
96	37 1/2	62.5	62.5
	35 1/2	65.0	65.0
92	37 1/2	65.0	65.0
DOUBLE DOORS			
120	72	50.0	50.0
	66	54.5	54.5
	60	60.0	60.0
	55	65.0	65.0
108	72	55.6	55.6
	66	60.6	60.6
	61	65.0	65.0
102	72	58.8	58.8
	66	64.2	64.2
	65	65.0	65.0
96	72	62.5	62.5
	69	65.0	65.0
92	72	65.0	65.0

(1) POSITIVE PRESSURE SHALL BE LIMITED TO +50 PSF WHEN DOORS ARE TO BE WATER INFILTRATION RATED.

(2) SEE LOCK OPTIONS TABLE FOOTNOTE 2 FOR FRAME SIZE RESTRICTION WHEN LOCK COMBINATION 35 & 36 ARE USED WITH ACTIVE PANEL OF DOORS.

(1) (2)	LOCK OPTIONS
DOUBLE DOOR ACTIVE PANEL	USE LOCK PART #31, 33 OR COMBINATION OF 35 & 36
SINGLE RECTANGULAR DOOR PANEL	USE LOCK PART #31, 33, 38 OR COMBINATION OF 35 & 36
DOUBLE DOOR INACTIVE PANEL	USE LOCK PART #32, 34 OR 36
SHAPE TOP SINGLE DOOR PANEL	USE LOCK PART #38

(1) LOCK PART #36 SHALL EXIST AT TOP & BOTTOM OF DOOR PANEL.

(2) WHEN LOCK COMBINATION OF PART #35 & 36 IS USED WITH ACTIVE DOOR PANELS, FRAME SIZE OF DOOR MAY NOT EXCEED 72" WIDE X 96" TALL WITH DOUBLE DOORS NOR 37 1/2" WIDE X 96" TALL WITH SINGLE DOORS.

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

GENERAL NOTES:

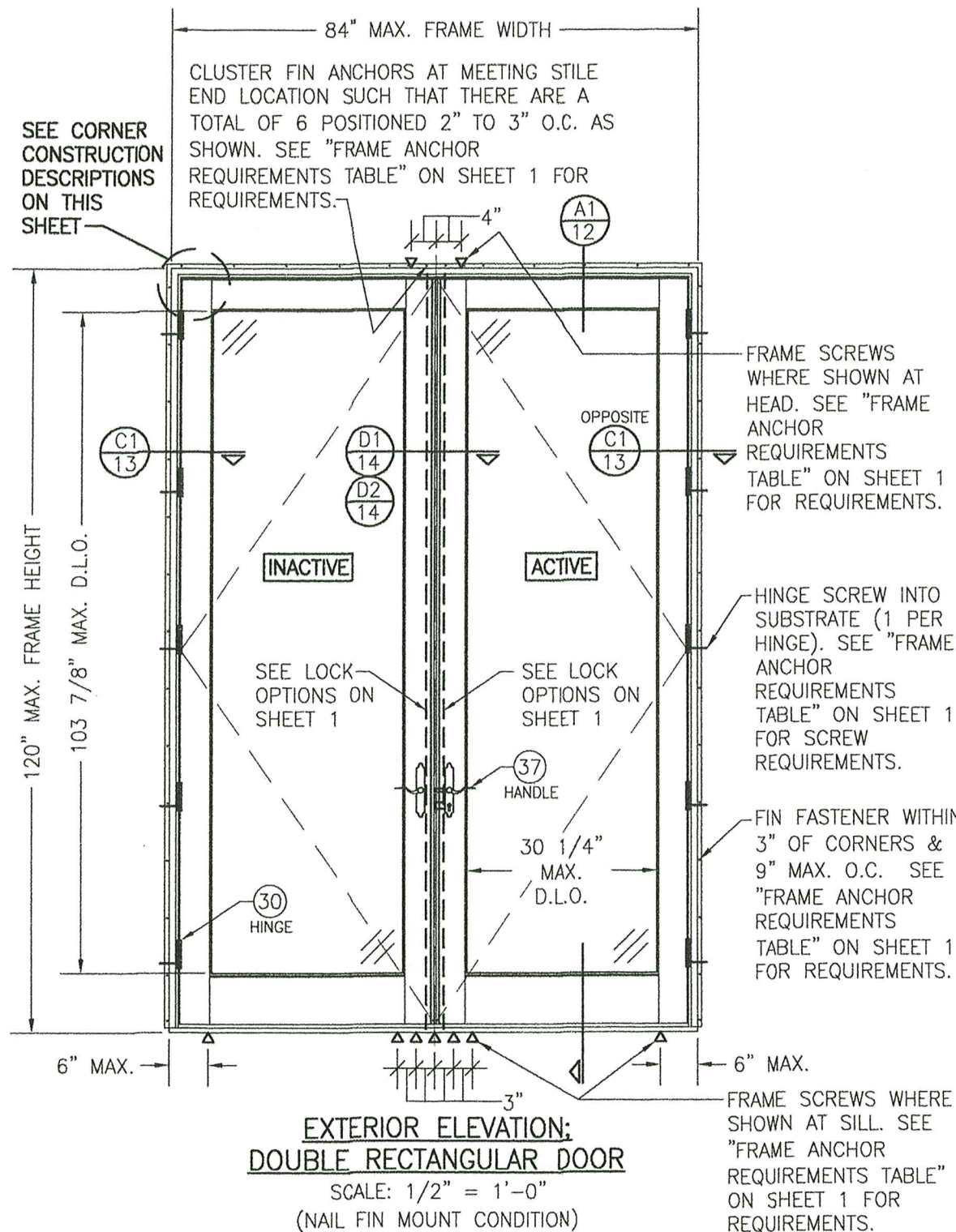
1. THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT PRODUCTS.
5. THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
7. ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF Kd = 0.85 MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.
11. ALL WOOD MEMBERS OF THIS PRODUCT THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC REQUIREMENTS.

NOTE: WHEN THE JOB REQUIRED POSITIVE DESIGN PRESSURE EXCEEDS +50 PSF, THE DOOR UNITS ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR UNLESS THE UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION OR THE UNITS ARE INSTALLED AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG WHERE-BY THE OVERHANG(OH) RATIO IS EQUAL TO OR MORE THAN 1.0 PER FBC.

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. 25-0908-04  
Expiration Date 4/16/2031  
By Ishag I. Shams  
Miami Dade Product Control

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLT: 1=24	DATE: 07/09/12
DATE 01/11/16	BY W.W.S.
REVISION 1=24	DESCRIPTION UPDATE TO CURRENT STANDARDS
NO. A1	REVISION B1
DRAWING TITLE ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR	
MANUFACTURER ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424	
DATE SEP 02 2025	
DRAWING NO. 1748	
REV. B	
SHEET NO. 1 OF 17	





#### CORNER CONSTRUCTION:

**JAMB TO HEAD JAMB WOOD FRAME:** MEMBERS ARE COPED, BUTTED AND JOINED WITH (1)ONE NO. 10 X 3 1/2" GALVANIZED WOOD SCREW THROUGH THE HORIZONTAL FRAME MEMBER INTO THE VERTICAL MEMBERS & (2)TWO NO. 8 X 2 1/2" GALVANIZED WOOD SCREWS THROUGH THE VERTICAL MEMBER INTO THE HORIZONTAL MEMBER. CORNERS ARE SEALED WITH DOW 795.

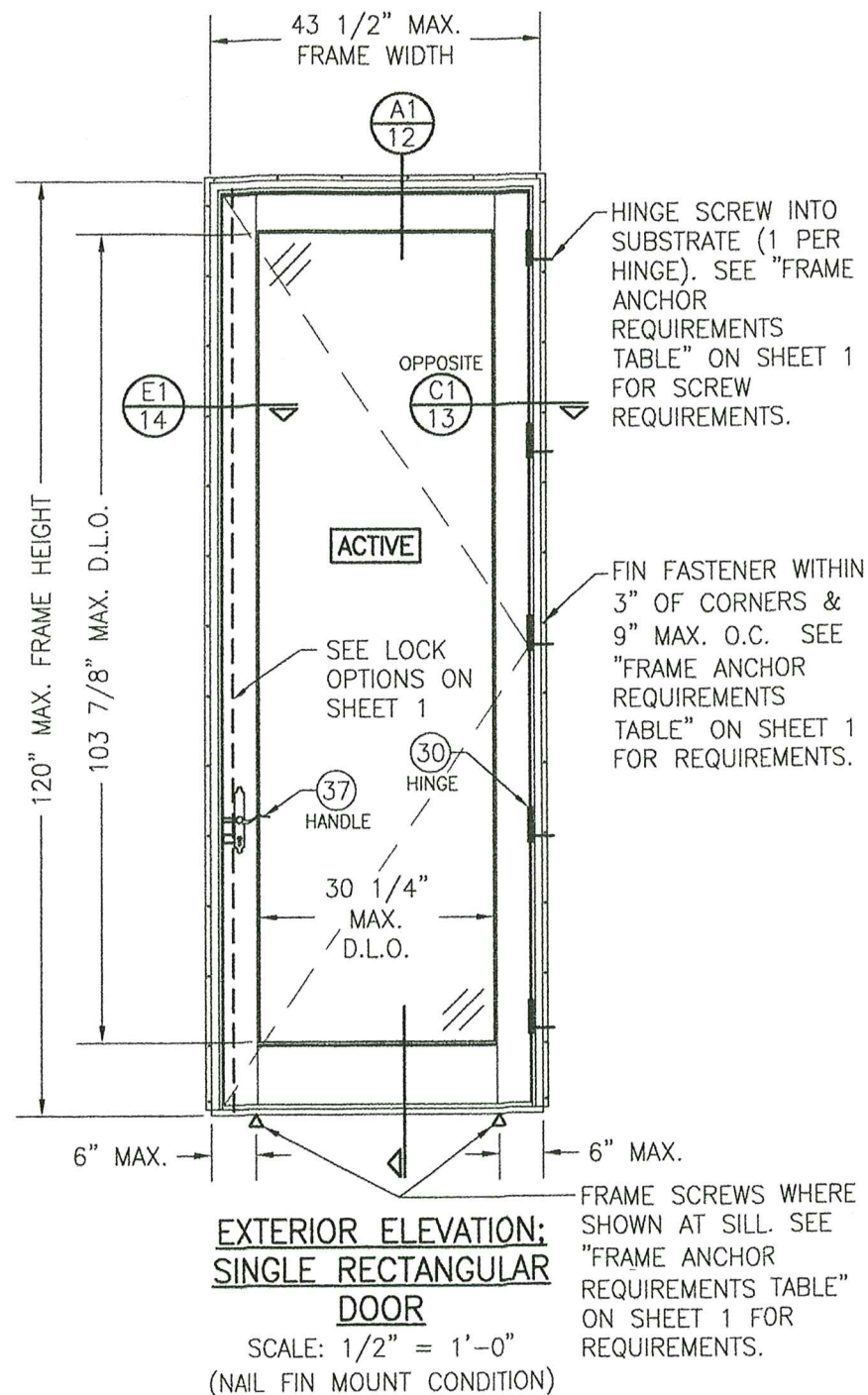
**JAMB TO SILL WOOD FRAME:** MEMBERS ARE COPED, BUTTED AND JOINED WITH (2)TWO NO. 8 X 2 1/2" GALVANIZED WOOD SCREW THROUGH THE HORIZONTAL FRAME MEMBER INTO THE VERTICAL MEMBERS & (2)TWO NO. 10 X 3 1/2" GALVANIZED WOOD SCREWS THROUGH THE VERTICAL MEMBER INTO THE HORIZONTAL MEMBERS. CORNERS ARE SEALED WITH DOW 795.

**TOP RAIL & MID-RAIL TO STILE:** MEMBERS ARE COPED, BUTTED AND JOINED WITH A (1)ONE 3/4" X 2" TENON DOWEL. CORNERS ARE GLUED & SEALED WITH MULTIBOND 2000 WOOD GLUED.

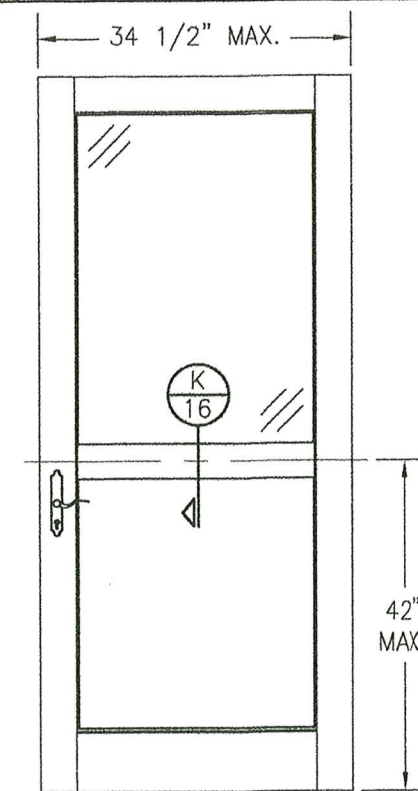
**BOTTOM RAIL TO STILE:** MEMBERS ARE COPED, BUTTED AND JOINED WITH A (2)TWO 3/4" X 2" TENON DOWEL. CORNERS ARE GLUED & SEALED WITH MULTIBOND 2000 WOOD GLUED.

**FRAME CLAD:** MEMBERS ARE MITERED AND JOINED WITH (2)TWO NO. 6 X 2" SMS SCREWS INTO THE SCREW SPLINE. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.

**PANEL CLAD:** MEMBERS ARE COPED, BUTTED & SECURED TO THE SASH. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.



SEE ALLOWABLE DESIGN PRESSURE TABLES ON SHEET 1 FOR ALLOWABLE DESIGN PRESSURES ON SINGLE & DOUBLE DOORS.



#### EXTERIOR ELEVATION: PARTIAL RAISED PANEL

SCALE: 1/2" = 1'-0"

(SEE DOOR ELEVATIONS FOR DOOR DETAIL AND INSTALLATION NOT SHOWN)

#### PANEL NOTES:

1. SINGLE RAISED PANEL CONDITION SHOWN, MORE THAN ONE RAISED PANEL MAY EXIST IN A SINGLE DOOR PANEL WHEN MULTIPLE MID-RAILS ARE USED.
2. PANEL ONLY IS SHOWN. FOR INSTALLATION INTO FRAME, SEE OTHER ELEVATIONS.
3. THESE PANEL CONDITIONS APPLY WITH BOTH OPERABLE & FIXED PANEL DOORS
4. RECTANGULAR CONDITION SHOWN, SHAPED CONDITIONS ALSO APPLY.

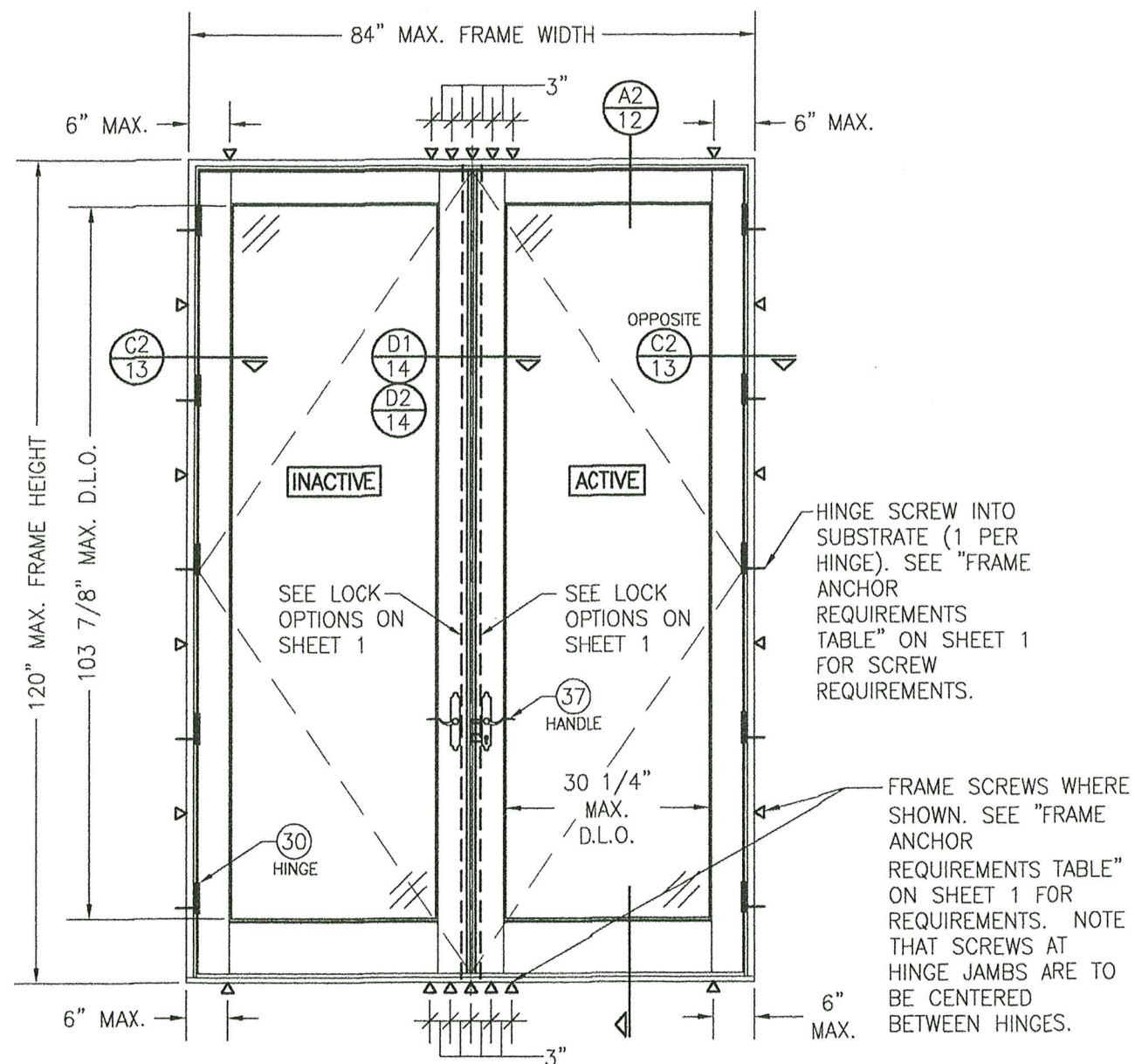
PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 25-0908.04 Expiration Date 4/16/2031

By: *Cheng I. Llanza*  
Miami Dade Product Control



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 07/09/12
NO.	REVISION DESCRIPTION
DATE	BY
DESCRIPTION	NO.
DRAWING TITLE: ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR MANUFACTURER: ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828 CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424 P.E. NO. 44135 SEP 02 2025 DRAWING NO. 1748 SHEET NO. 2 OF 17	

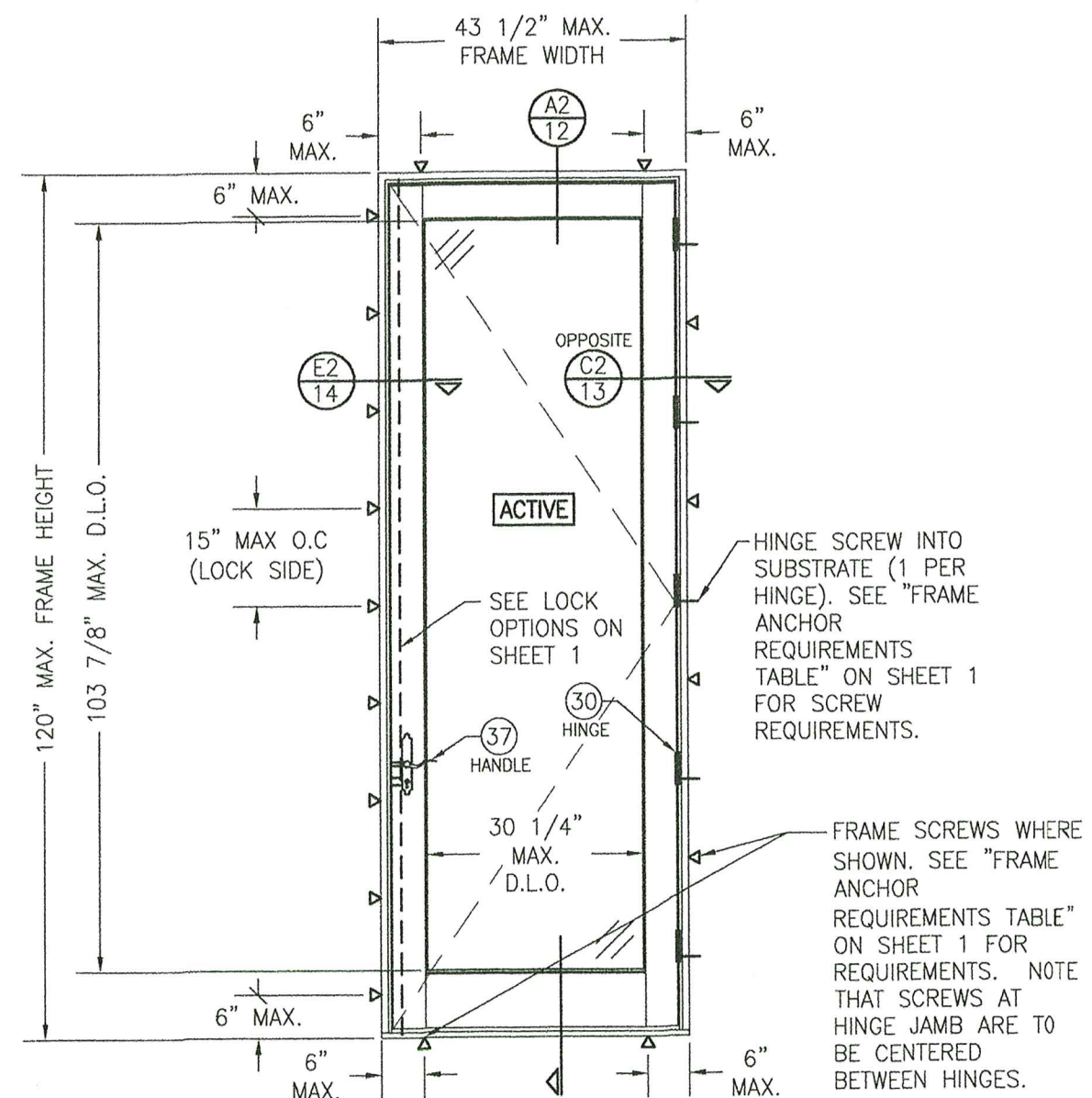




EXTERIOR ELEVATION:  
DOUBLE RECTANGULAR DOOR

SCALE:  $1/2" = 1'-0"$   
(FRAME SCREW MOUNT CONDITION)

SEE ALLOWABLE DESIGN PRESSURE  
TABLES ON SHEET 1 FOR  
ALLOWABLE DESIGN PRESSURES ON  
SINGLE & DOUBLE DOORS.



EXTERIOR ELEVATION:  
SINGLE RECTANGULAR  
DOOR

SCALE:  $1/2" = 1'-0"$   
(FRAME SCREW MOUNT CONDITION)

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
Acceptance No 25-0908.04  
Expiration Date 4/16/2031  
By Ishag! Chandra  
Miami Dade Product Control

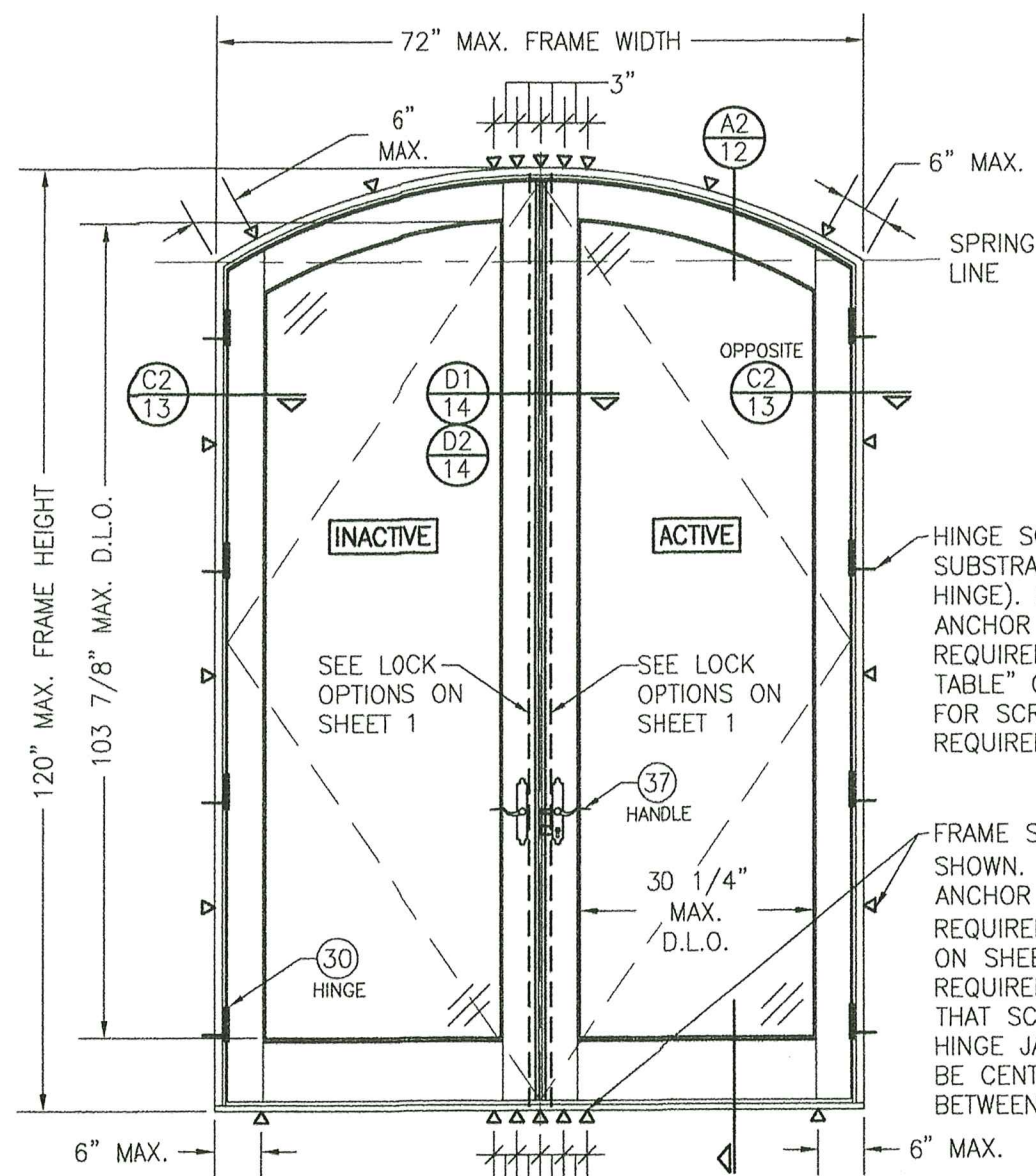


DRAWING NO. 1748	REV. B	SHEET NO. 3 OF 17	CERTIFICATION  SEP 02 2025  WARREN W. SCHAEFER, P.E.	DRAWING TITLE ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR	CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424	MANUFACTURER ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	NO.	REVISION DESCRIPTION	BY	DATE	PLOT: 1=24	DRAWN BY: W.R.M.	CHECKED BY: W.W.S.	DATE: 07/09/12







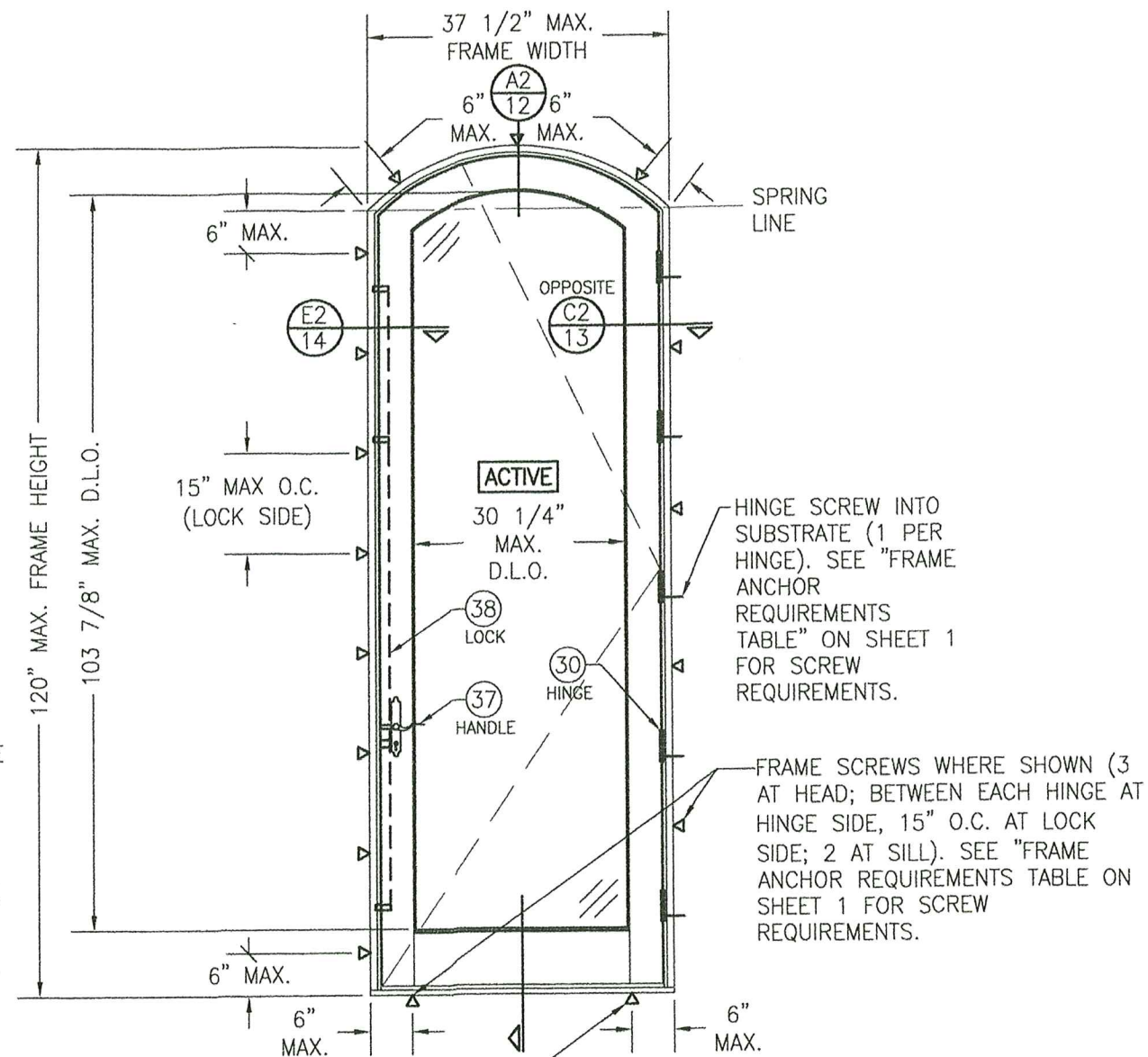


EXTERIOR ELEVATION;  
DOUBLE EYE-BROW TOP DOOR

SCALE: 1/2" = 1'-0"

(FRAME SCREW MOUNT CONDITION SHOWN. FOR NAIL  
FIN MOUNT, SEE RECTANGULAR DOOR NAIL FIN MOUNT  
ELEVATION)

SEE ALLOWABLE DESIGN PRESSURE  
TABLES ON SHEET 1 FOR  
ALLOWABLE DESIGN PRESSURES ON  
SINGLE & DOUBLE DOORS.



EXTERIOR ELEVATION;  
SINGLE EYE-BROW TOP  
DOOR

SCALE: 1/2" = 1'-0"

(FRAME SCREW MOUNT CONDITION  
SHOWN. FOR NAIL FIN MOUNT,  
SEE RECTANGULAR DOOR NAIL FIN  
MOUNT ELEVATION)

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. 25-0908.04  
Expiration Date 9/16/2031  
By *Shag I. L...*  
Miami Dade Product Control



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 07/09/12
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424	MANUFACTURER ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828
CERTIFICATION SEP 02 2025	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1748	REV. B
SHEET NO. 5	OF 17



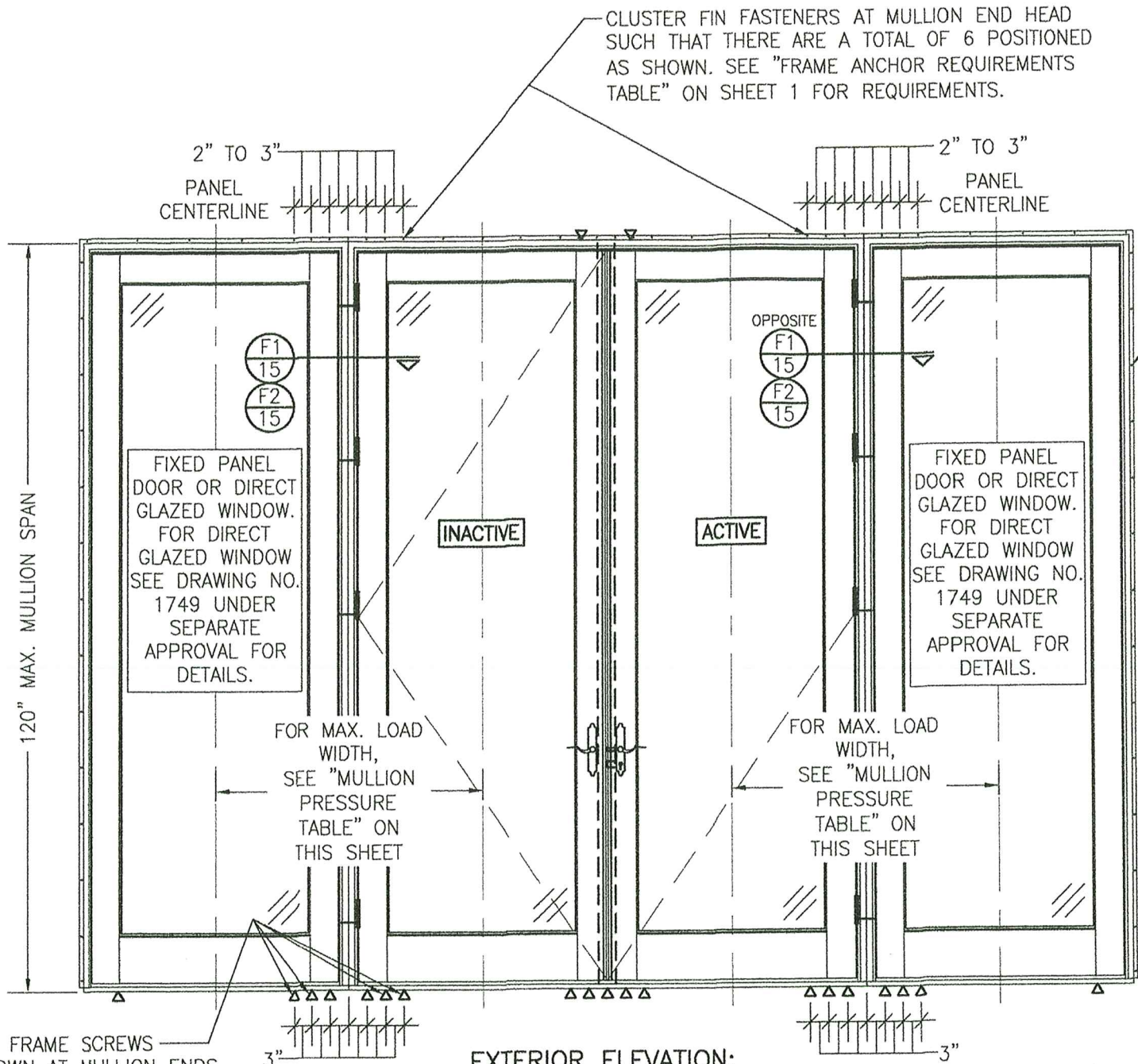
MULLION ALLOWABLE DESIGN PRESSURE (SIDE BY SIDE DOORS)			
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)	
		POS.	NEG.
120	51	41.2	41.2
	45	46.7	46.7
	42	50.0	50.0
	39	53.8	53.8
	36	58.3	58.3
	33	63.6	63.6
	31	65.0	65.0
108	54	43.2	43.2
	51	45.8	45.8
	45	51.9	51.9
	42	55.6	55.6
	39	59.8	59.8
	36	64.8	64.8
102	35	65.0	65.0
	56	44.1	44.1
	51	48.4	48.4
	45	54.9	54.9
	42	58.8	58.8
	39	63.3	63.3
96	38	65.0	65.0
	57	46.1	46.1
	51	51.5	51.5
	45	58.3	58.3
	42	62.5	62.5
90	40	65.0	65.0
	57	49.1	49.1
	51	54.9	54.9
	48	58.3	58.3
	45	62.2	62.2
84	43	65.0	65.0
	57	52.6	52.6
	51	58.8	58.8
	49	61.2	61.2
80	46	65.0	65.0
	57	55.3	55.3
	54	58.3	58.3
	51	61.8	61.8
	49	64.3	64.3
	48	65.0	65.0

NOTES:  
 1. SEE ELEVATIONS FOR DIMENSIONING OF LOAD WIDTH.  
 2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURE SHOWN IN THIS TABLE & THAT SPECIFIED FOR THE INDIVIDUAL DOOR.

ADDITIONAL FRAME SCREWS WHERE SHOWN AT MULLION ENDS. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.  
 NOTE: OUTER-MOST SCREW ON EACH SIDE OF THE MULLION IS NOT REQUIRED AT THE SILL WHEN LOAD WIDTH IS 33 1/2" OR LESS OR WHEN FRAME HEIGHT IS 96" OR LESS

**MULTIPLE UNIT NOTES:**

1. FOR ALL DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.
2. THERE IS NO LIMIT ON THE NUMBER OF DOORS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE DOORS & THEIR MULLIONS.
3. OXXO UNIT IS SHOWN. ALL OTHER FIXED/OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITIONS SHOWN.
4. INDIVIDUAL DOOR SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE UNIT ELEVATION.



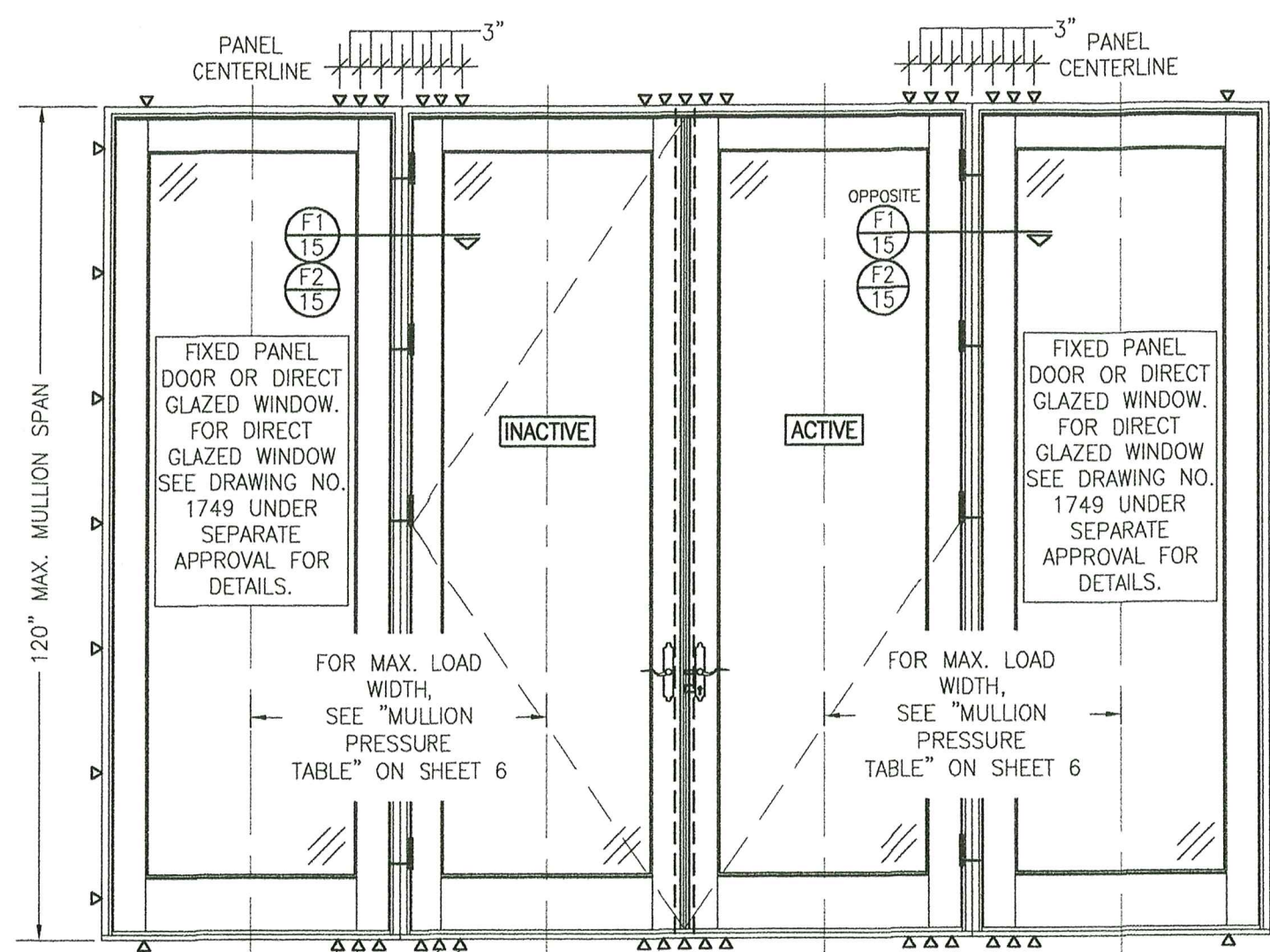
**EXTERIOR ELEVATION:  
 DOUBLE DOORS WITH SIDE LIGHTS**  
 SCALE: 1/2" = 1'-0"  
 (NAIL FIN MOUNT CONDITION)  
 (RECTANGULAR DOORS SHOWN, SHAPED DOORS ALSO APPLY. SEE "APPROVED SHAPES" TABLE ON SHEET 1)

PRODUCT RENEWED  
 By complying with the Florida  
 Building Code  
 Acceptance No. 25-0908.01  
 Expiration Date 4/16/2031  
 By *Ichang L. Chen*  
 Miami Data Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 07/09/12	
DATE	BY	REVISION	DESCRIPTION
DRAWING TITLE: ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR			
MANUFACTURER: ULTIMATE DOOR OF PALM BEACH, INC.		2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424	
CERTIFICATION: SEP 02 2025		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO.	REV.		
1748	B		
SHEET NO.			
6 OF 17			





SEE SINGLE UNIT ELEVATIONS FOR FRAME ANCHOR REQUIREMENTS & POSITIONS AROUND EACH UNIT

ADDITIONAL FRAME SCREWS WHERE SHOWN AT MULLION ENDS. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS (TYP. HEAD & SILL).  
NOTE: OUTER-MOST SCREW ON EACH SIDE OF THE MULLION IS NOT REQUIRED WHEN LOAD WIDTH IS 33 1/2" OR LESS OR WHEN FRAME HEIGHT IS 96" OR LESS

**EXTERIOR ELEVATION:  
DOUBLE DOORS WITH SIDE LIGHTS**

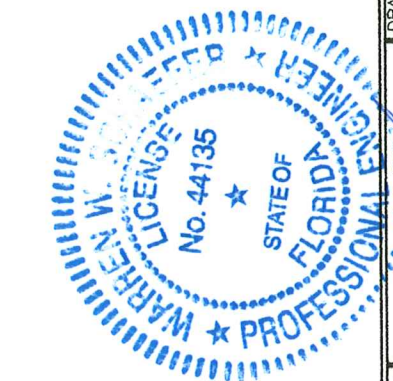
SCALE: 1/2" = 1'-0"  
(FRAME SCREW MOUNT CONDITION)  
(RECTANGULAR DOORS SHOWN, SHAPED DOORS ALSO APPLY. SEE "APPROVED SHAPES" TABLE ON SHEET 1)

SEE "MULLION ALLOWABLE DESIGN PRESSURE" TABLE ON SHEET 6 FOR ALLOWABLE DESIGN PRESSURES ON MULLED UNIT

**MULTIPLE UNIT NOTES:**

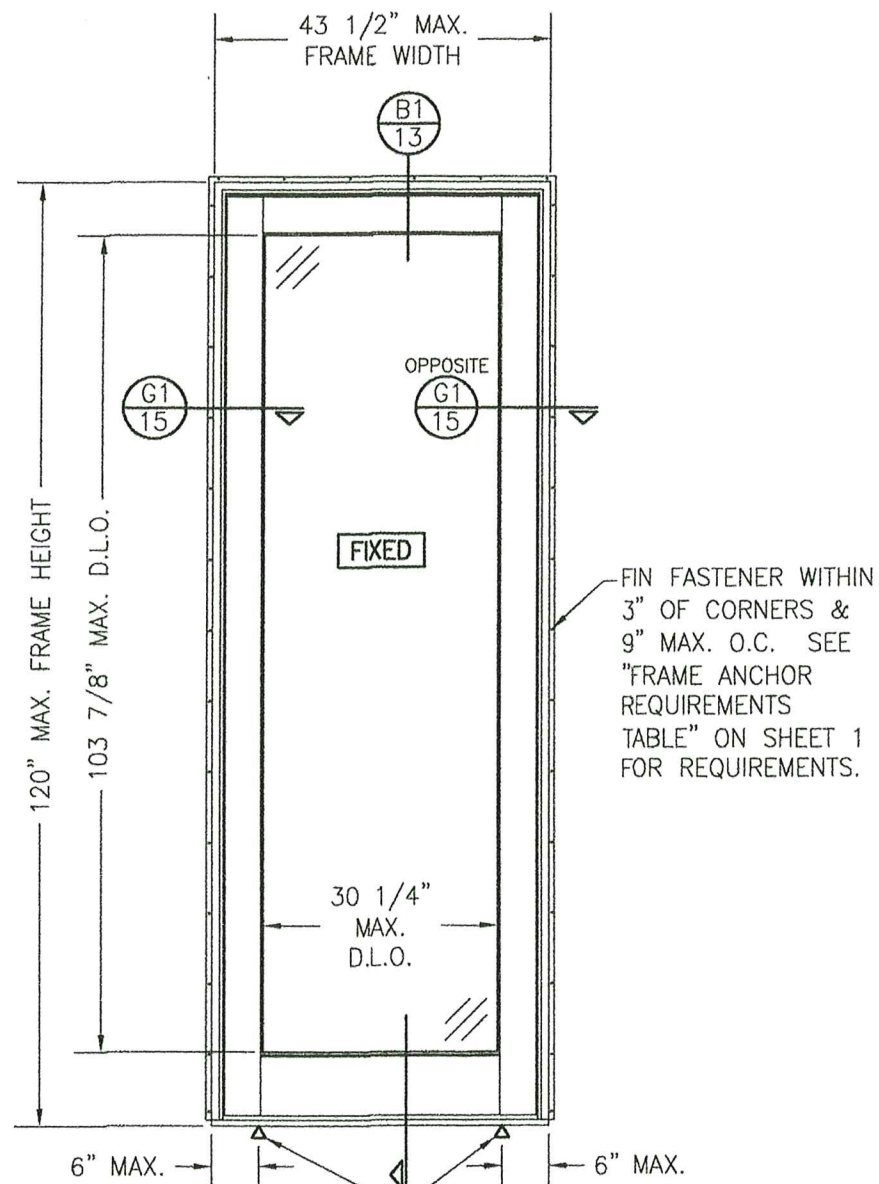
1. FOR ALL DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.
2. THERE IS NO LIMIT ON THE NUMBER OF DOORS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE DOORS & THEIR MULLIONS.
3. OXXO UNIT IS SHOWN. ALL OTHER FIXED/OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITIONS SHOWN.
4. INDIVIDUAL DOOR SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE UNIT ELEVATION.

**PRODUCT RENEWED**  
as complying with the Florida Building Code  
Acceptance No. 25-0908.04  
Expiration Date 4/16/2031  
By *Warren W. Schaefer*  
Miami Dade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 07/09/12	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424		MANUFACTURER: ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	
CERTIFICATION: SEP 02 2025		By <i>Warren W. Schaefer</i> P.E. NO. 44135	
DRAWING NO. 1748		REV. B	
SHEET NO. 7 OF 17			



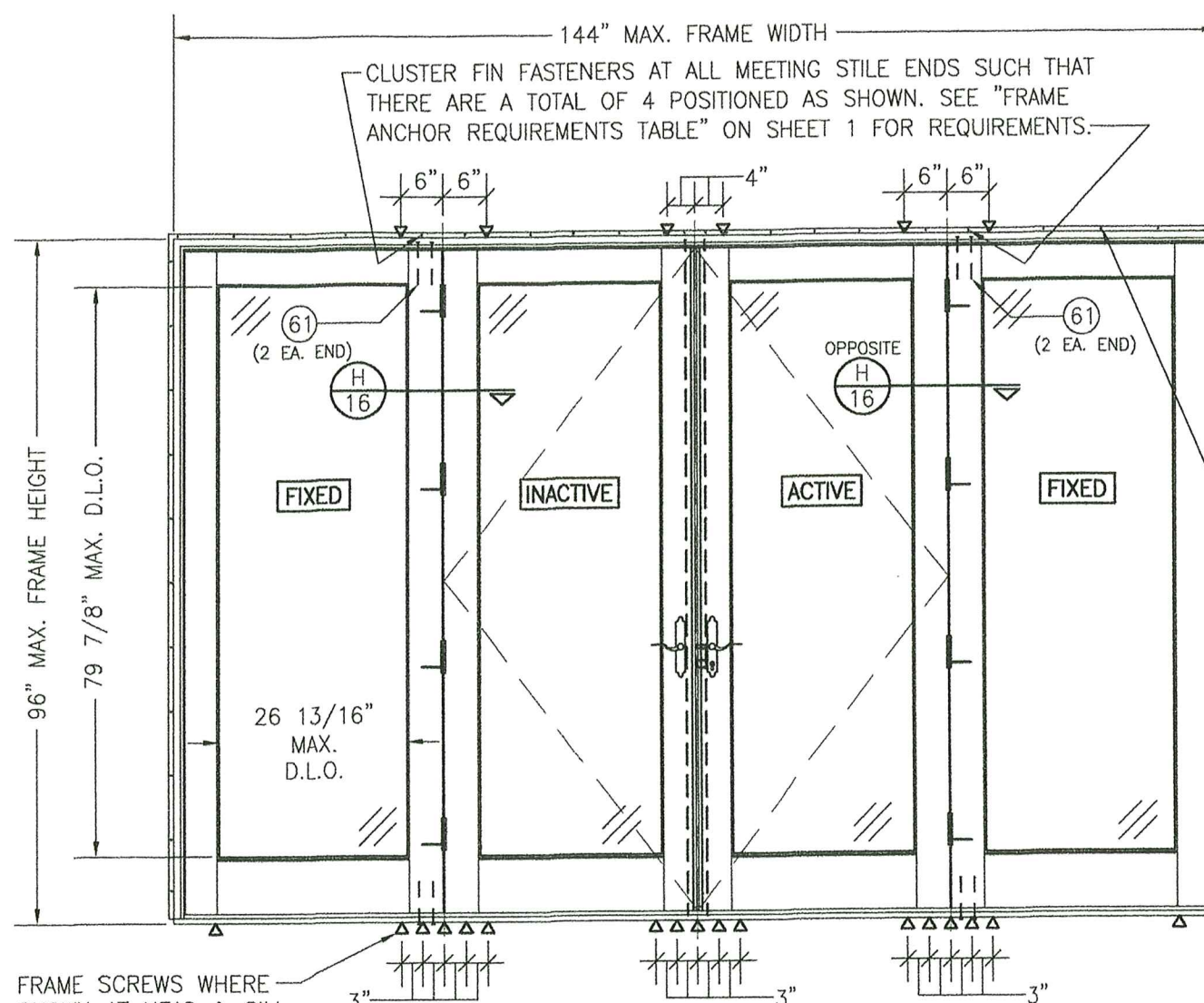


**EXTERIOR ELEVATION:  
SINGLE FIXED PANEL DOOR**

SCALE: 1/2" = 1'-0"  
(NAIL FIN MOUNT CONDITION)

RECTANGULAR FIXED PANEL SHOWN. SHAPE TOP CONDITION ALSO APPLIES WITH ANCHORING ALONG THE FRAME CIRCUMFERENCE BEING THE SAME AS SPECIFIED FOR A STRAIGHT FRAME.

SEE ALLOWABLE DESIGN PRESSURE TABLES ON SHEET 1 FOR ALLOWABLE DESIGN PRESSURES ON FIXED PANEL DOORS.



FRAME SCREWS WHERE SHOWN AT HEAD & SILL. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.

**EXTERIOR ELEVATION:  
QUAD PANEL DOOR WITH FIXED ASTRAGALS  
IN ONE FRAME**

SCALE: 1/2" = 1'-0"  
(NAIL FIN MOUNT CONDITION)

**ALLOWABLE DESIGN PRESSURE  
(DOORS WITH FIXED ASTRAGALS)**

+48/-59 PSF

**FIXED ASTRIGAL UNIT NOTES:**

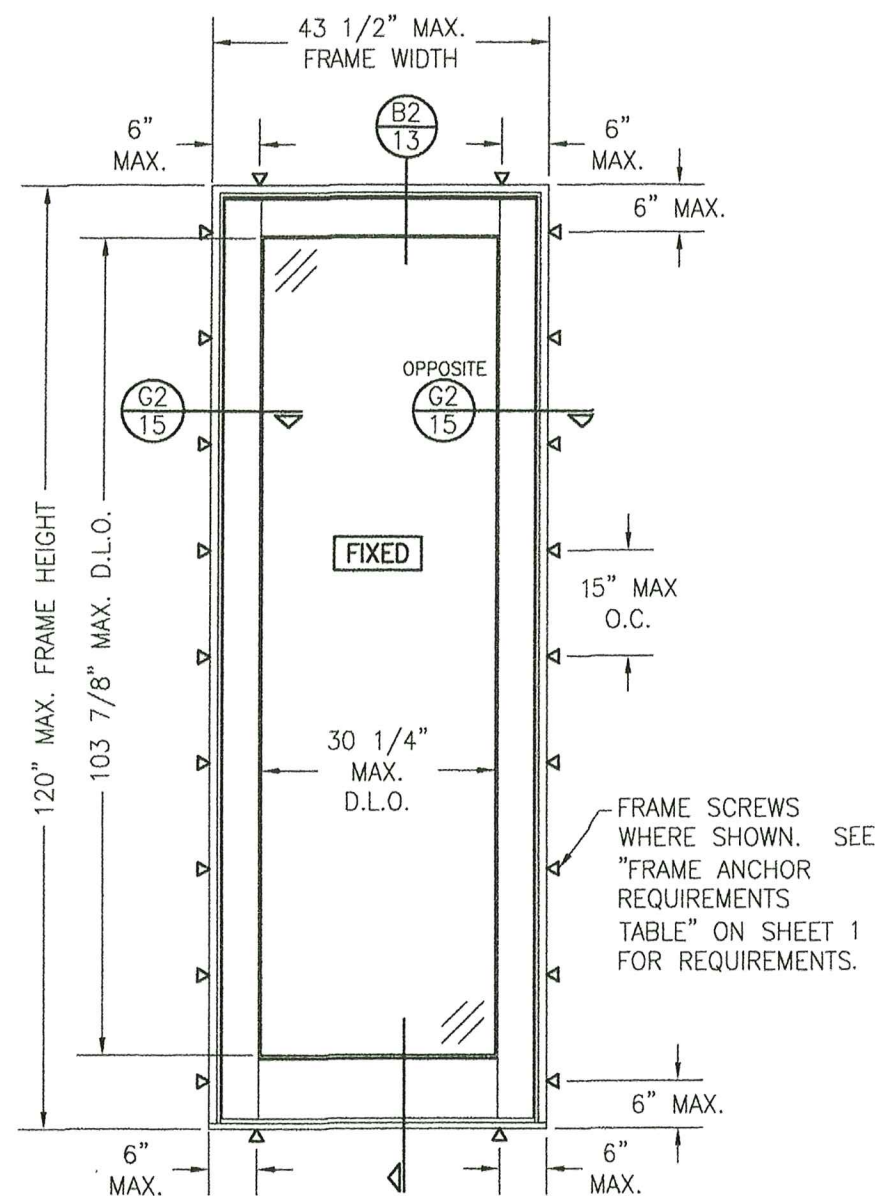
1. OXXO UNIT IS SHOWN. OX, XO, OXO, XXO & OXX UNITS ALSO APPLY.
2. FOR DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.

PRODUCT RENEWED  
on complying with the Florida  
Building Code  
Acceptance No. 25-0908.04  
Expiration Date 9/16/2031  
By *Kenny L. L...*  
Miami Dade Product...



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 07/09/12
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE: ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR MANUFACTURER: ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828 CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424 WAPREN W. SCHAEFER, P.E. No. 44135	
DRAWING NO. 1748	REV. B
SHEET NO. 8	OF 17



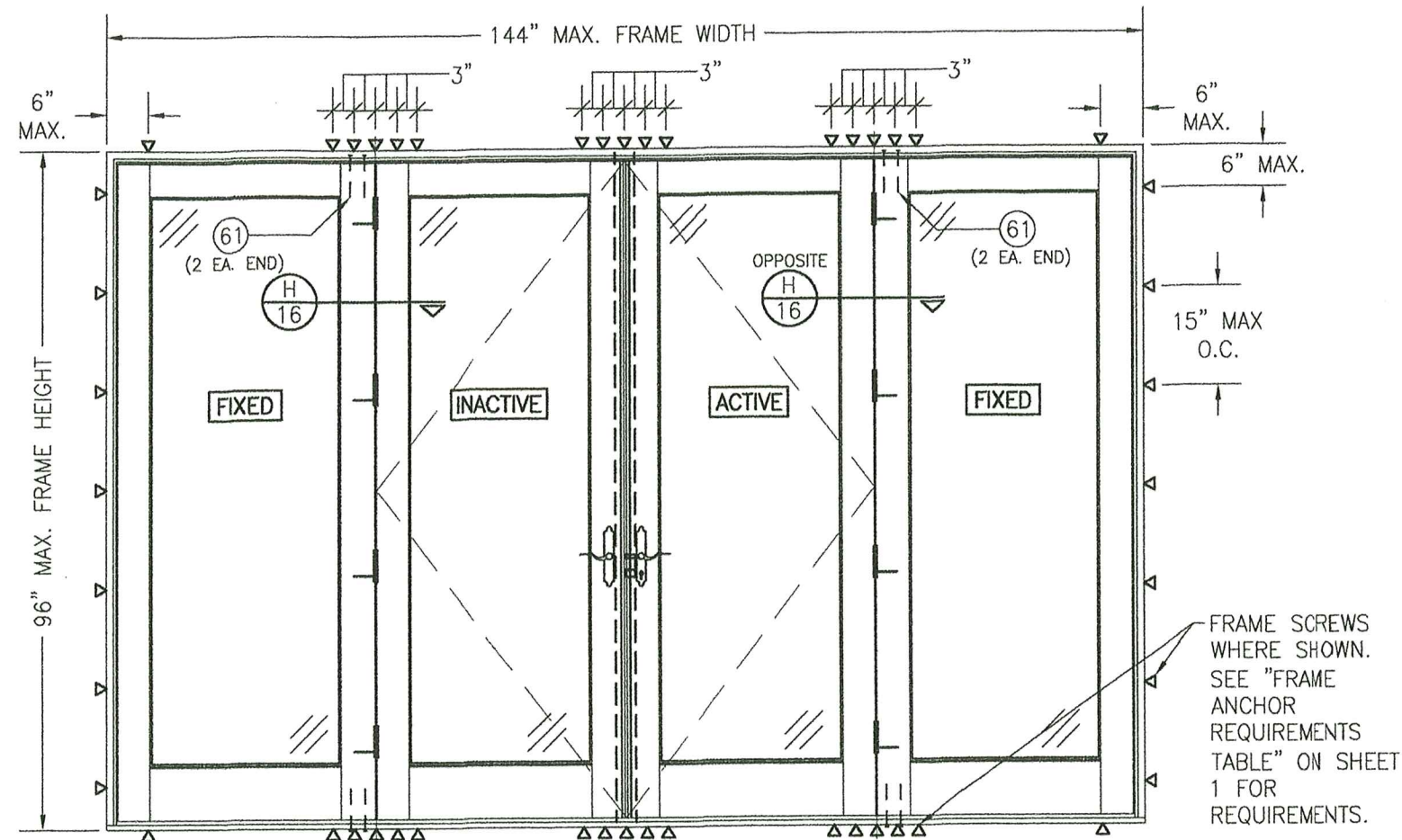


**EXTERIOR ELEVATION:  
SINGLE FIXED PANEL DOOR**

SCALE: 1/2" = 1'-0"  
(FRAME SCREW MOUNT CONDITION)

RECTANGULAR FIXED PANEL SHOWN. SHAPE TOP CONDITION ALSO APPLIES WITH ANCHORING ALONG THE FRAME CIRCUMFERENCE BEING THE SAME AS SPECIFIED FOR A STRAIGHT FRAME.

SEE ALLOWABLE DESIGN PRESSURE TABLES ON SHEET 1 FOR ALLOWABLE DESIGN PRESSURES ON FIXED PANEL DOORS.



**EXTERIOR ELEVATION:  
QUAD PANEL DOOR WITH FIXED ASTRAGALS  
IN ONE FRAME**

SCALE: 1/2" = 1'-0"  
(FRAME SCREW MOUNT CONDITION)

**ALLOWABLE DESIGN PRESSURE  
(DOORS WITH FIXED ASTRAGALS)**

+48/-59 PSF

**FIXED ASTRIGAL UNIT NOTES:**

- OXXO UNIT IS SHOWN. OX, XO, OXO, XXO & OXX UNITS ALSO APPLY.
- FOR DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
Acceptance No. 25-0908.04  
Expiration Date 4/16/2031  
By: [Signature]  
Miami Door Product Controls



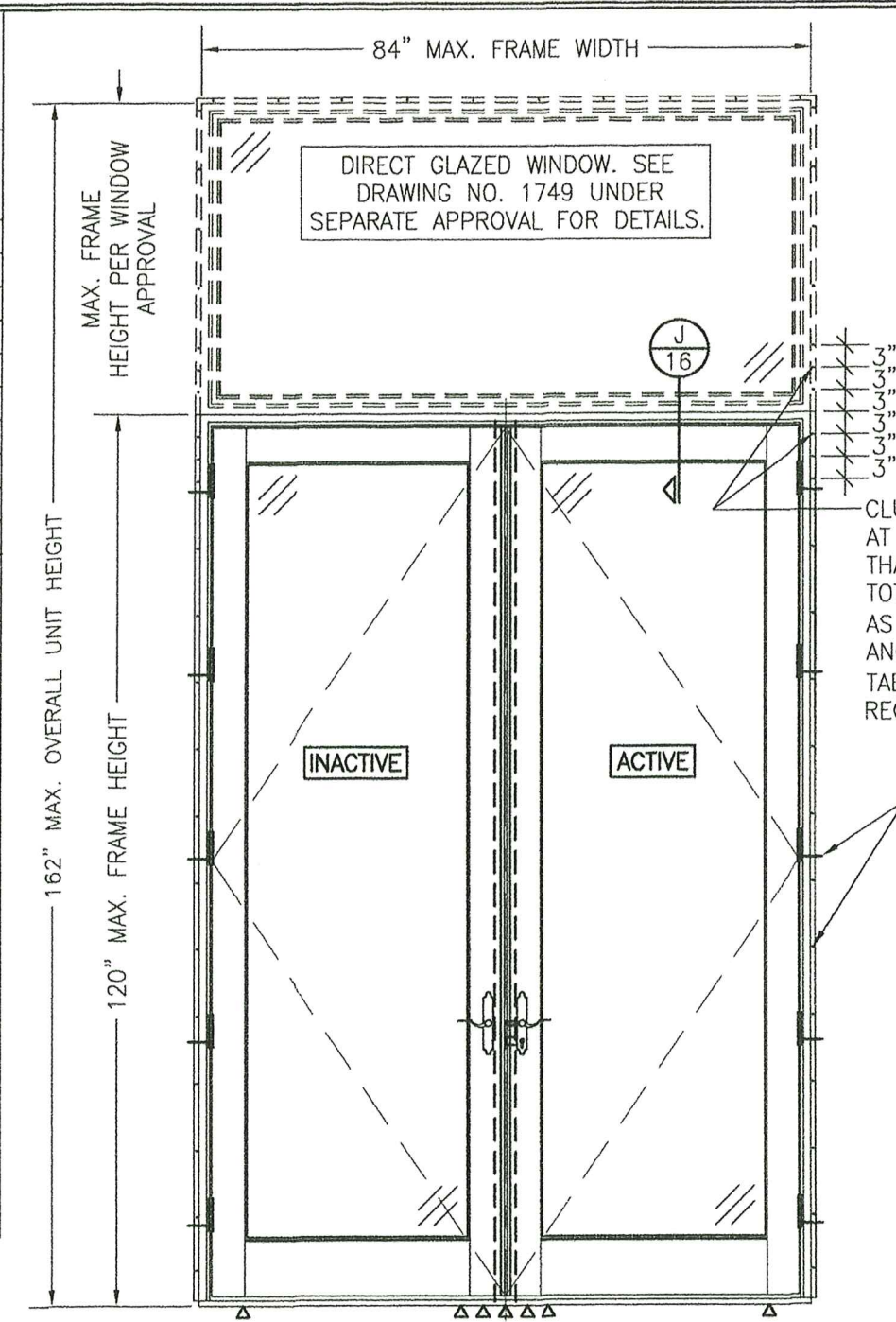
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 07/09/12
DATE	BY
REVISION DESCRIPTION	NO.
<p>ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR</p> <p>MANUFACTURER ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828</p> <p>CONSULTANTS W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424</p>	
CERTIFICATION	<p>SEP 02 2025</p> <p>WARREN W. SCHAEFER, P.E. P.E. NO. 44135</p>
DRAWING NO. 1748	REV. B
SHEET NO. 9	OF 17



# MULLION ALLOWABLE DESIGN PRESSURE (DOUBLE DOORS WITH TRANSOM)

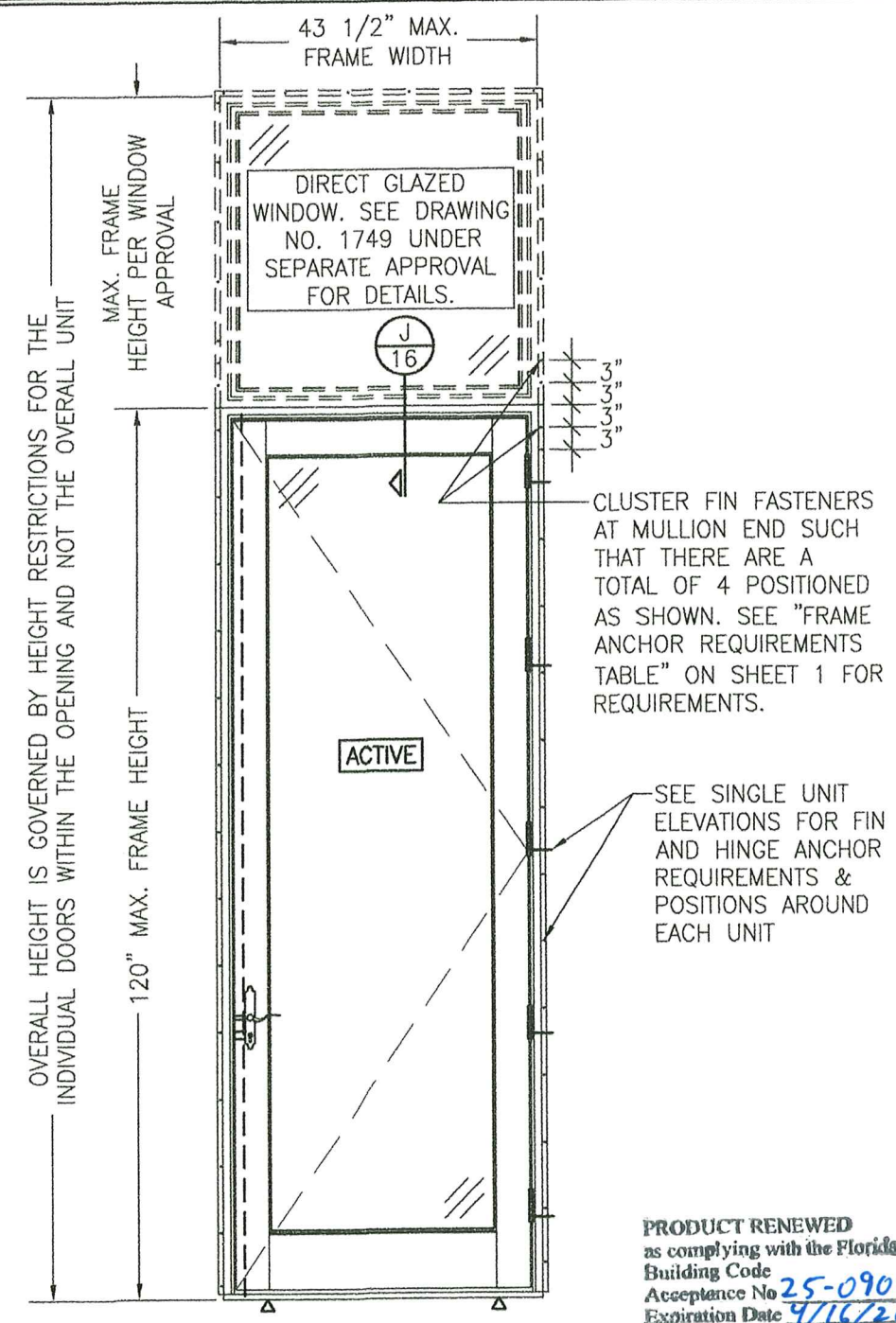
MAXIMUM FRAME WIDTH (IN.)	MAXIMUM OVERALL HEIGHT (IN.)	ALLOWABLE PRESSURE (PSF)	
		POS.	NEG.
84	162	50.0	50.0
	150	54.0	54.0
	144	56.3	56.3
	138	58.7	58.7
	132	61.4	61.4
	126	64.3	64.3
	124	65.0	65.0
78	162	53.8	53.8
	150	58.2	58.2
	144	60.6	60.6
	138	63.2	63.2
75	134	65.0	65.0
	162	56.0	56.0
	156	58.2	58.2
	150	60.5	60.5
72	144	63.0	63.0
	139	65.0	65.0
	162	58.3	58.3
	156	60.6	60.6
66	150	63.0	63.0
	145	65.0	65.0
	162	63.6	63.6
60	158	65.0	65.0
	162	65.0	65.0

NOTES:  
1. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURE SHOWN IN THIS TABLE & THAT SPECIFIED FOR THE INDIVIDUAL WINDOW OR DOOR.



EXTERIOR ELEVATION:  
DOUBLE DOORS WITH TRANSOM

SCALE: 1/2" = 1'-0"  
(NAIL FIN MOUNT CONDITION)  
(FOR DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS)



EXTERIOR ELEVATION:  
SINGLE DOOR WITH TRANSOM

SCALE: 1/2" = 1'-0"  
(NAIL FIN MOUNT CONDITION)  
(FOR DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS)

## MULLION ALLOWABLE DESIGN PRESSURE (SINGLE DOORS WITH TRANSOM)

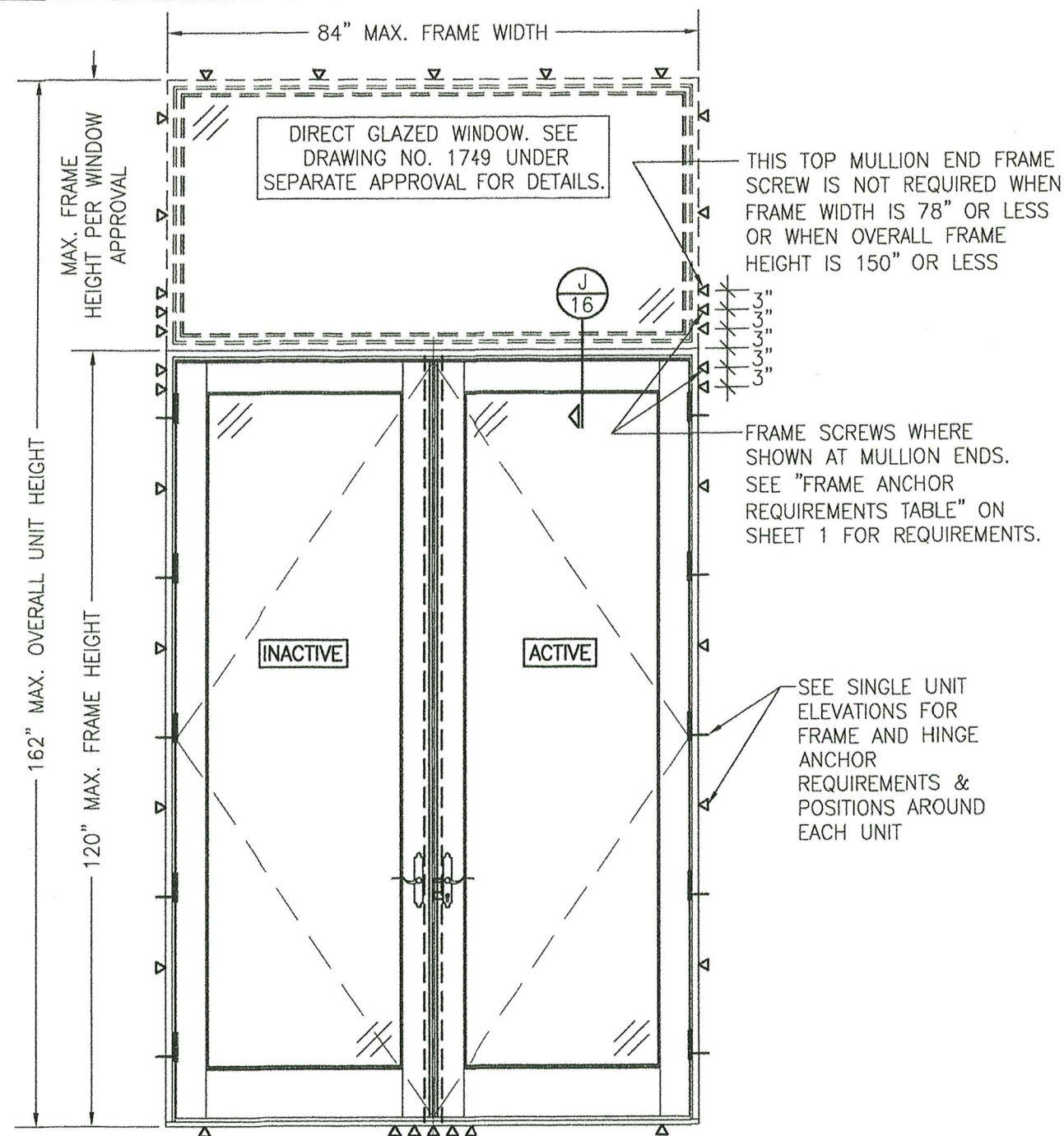
ALLOWABLE PRESSURE SHALL BE GOVERNED BY THE ALLOWABLE PRESSURE ON THE SINGLE DOOR. SEE SHEET 1 FOR ALLOWABLE PRESSURE ON SINGLE DOORS.

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. 25-0908.04  
Expiration Date 9/16/2031  
By: [Signature]  
Miami Dade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 07/09/12	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE: ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR			
MANUFACTURER: ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424			
DRAWING NO. 1748 SHEET NO. 10 OF 17			

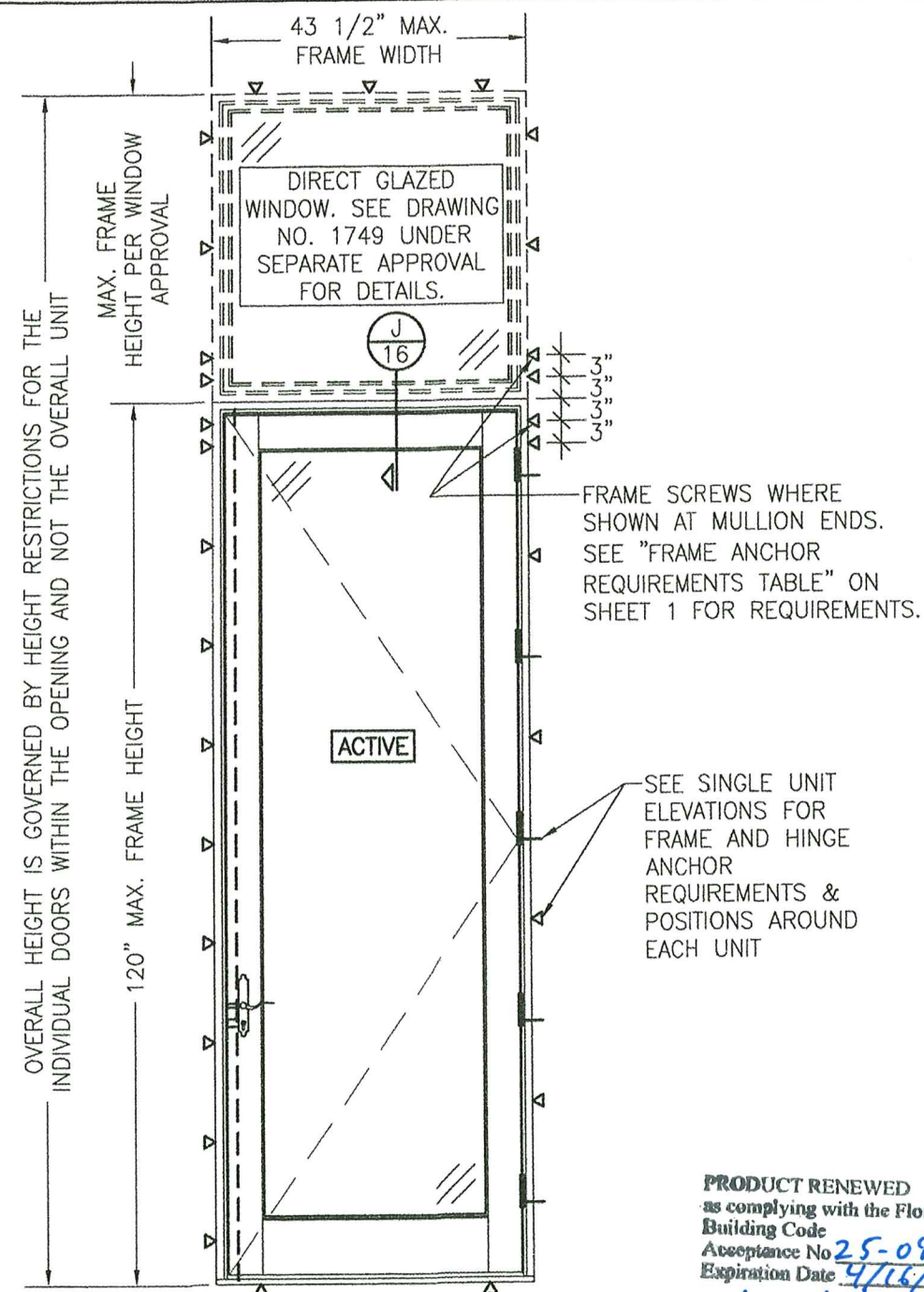




**EXTERIOR ELEVATION:  
DOUBLE DOORS WITH TRANSOM**

SCALE: 1/2" = 1'-0"  
(FRAME SCREW MOUNT CONDITION)  
(FOR DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS)

SEE "MULLION ALLOWABLE DESIGN  
PRESSURE" TABLE ON SHEET 10  
FOR ALLOWABLE DESIGN  
PRESSURES ON TRANSOM UNIT



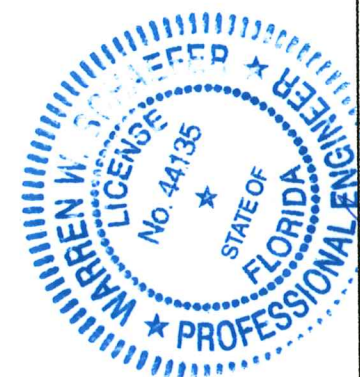
**EXTERIOR ELEVATION:  
SINGLE DOOR WITH TRANSOM**

SCALE: 1/2" = 1'-0"  
(FRAME SCREW MOUNT CONDITION)  
(FOR DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS)

**MULLION ALLOWABLE  
DESIGN PRESSURE  
(SINGLE DOORS WITH TRANSOM)**

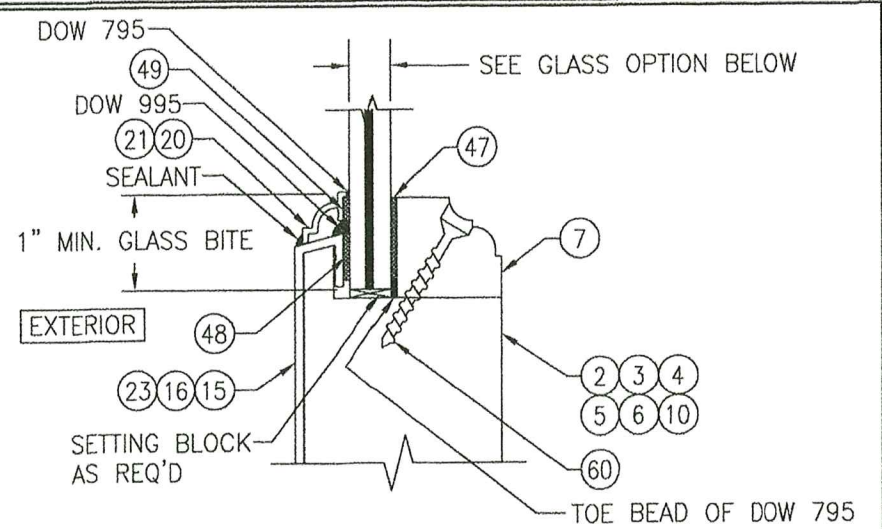
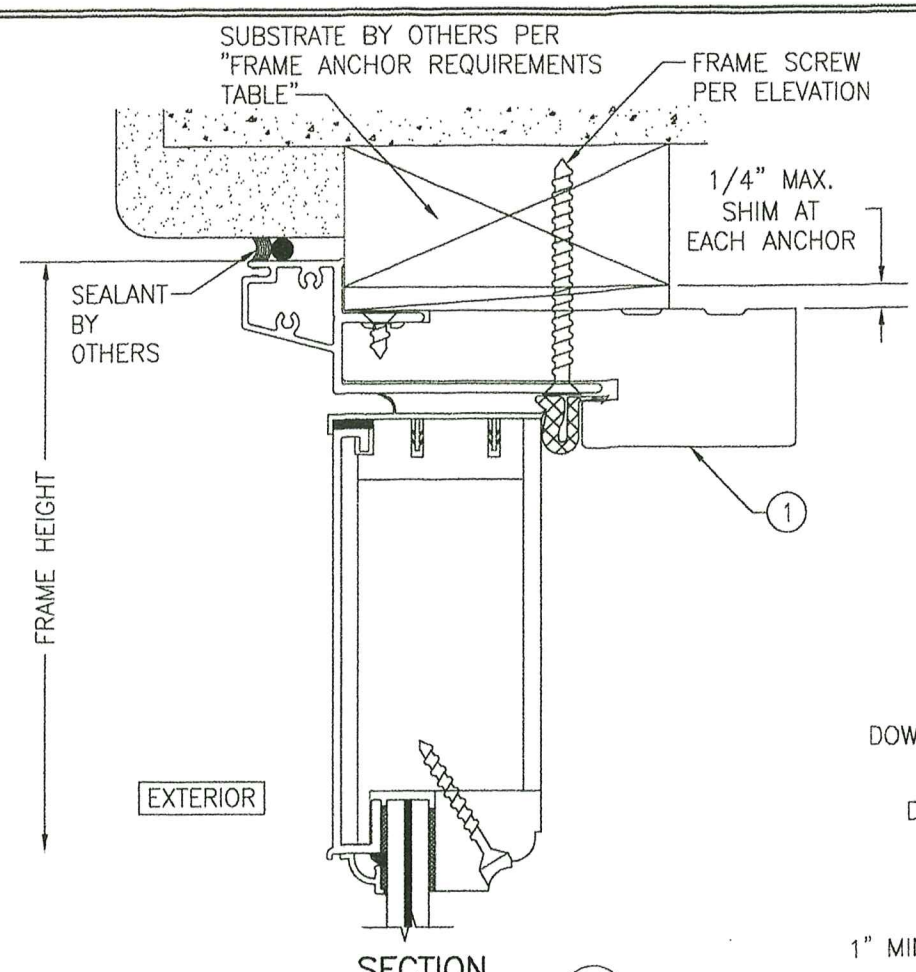
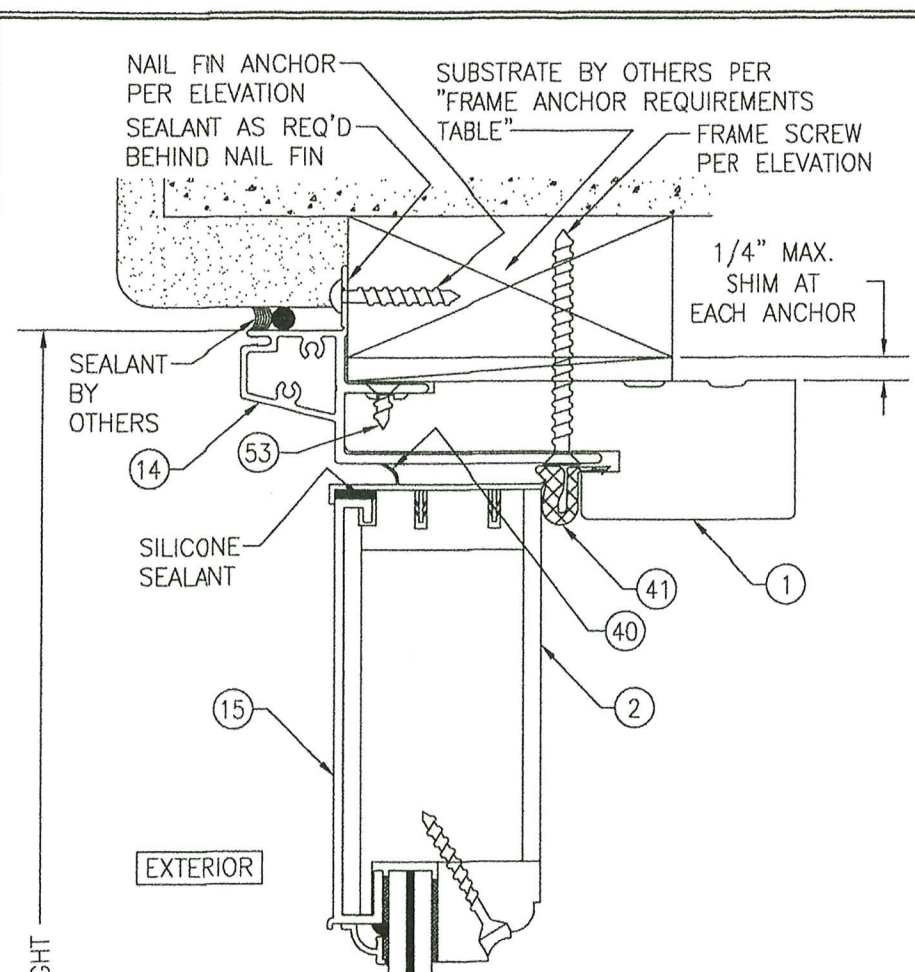
ALLOWABLE PRESSURE SHALL BE  
GOVERNED BY THE ALLOWABLE  
PRESSURE ON THE SINGLE DOOR.  
SEE SHEET 1 FOR ALLOWABLE  
PRESSURE ON SINGLE DOORS.

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
Acceptance No. **25-0908.04**  
Expiration Date **4/16/2031**  
By **Ishay I. Chank**  
Miami Dade Product Control



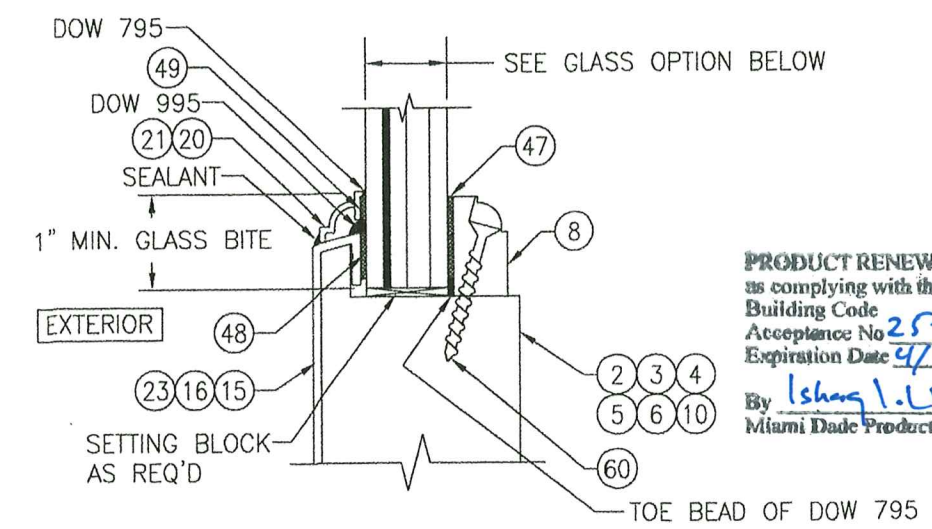
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 07/09/12	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424		MANUFACTURER ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	
CERTIFICATION SEP 02 2025		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1748	REV. B	SHEET NO. 11 OF 17	





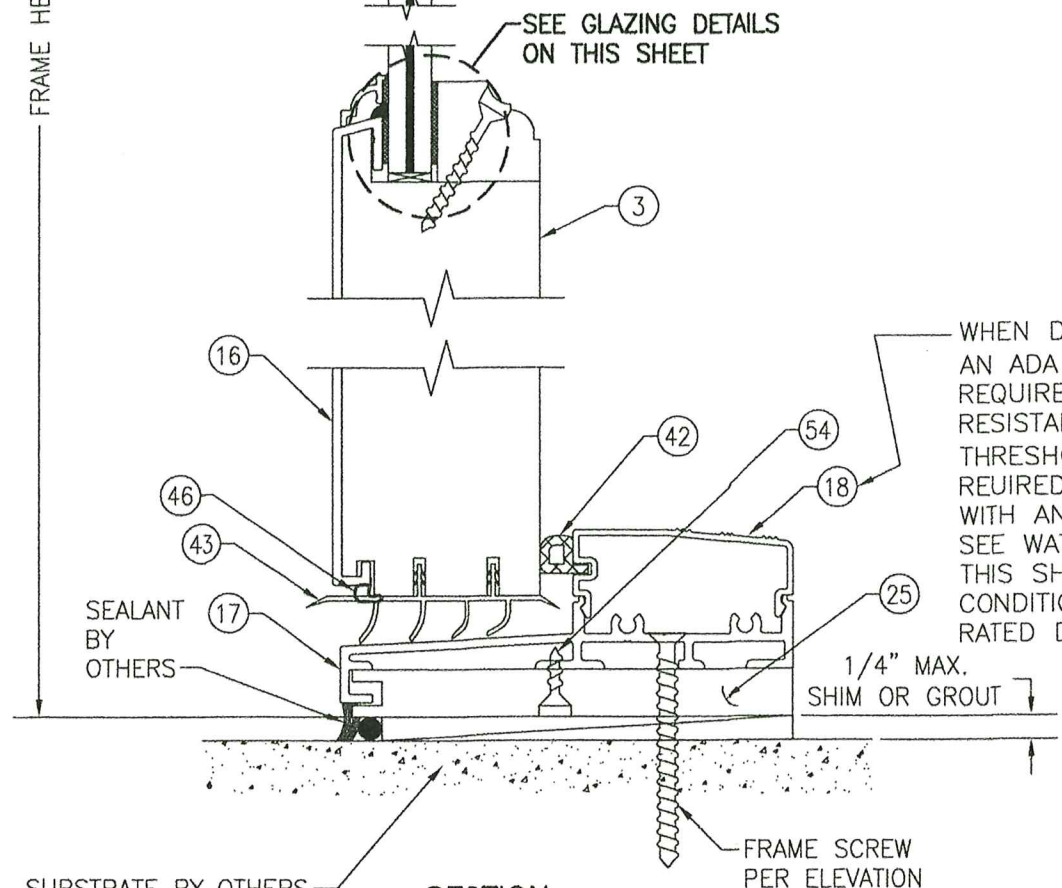
**TYPICAL MONOLITHIC GLASS GLAZING DETAIL**

OPTION 1: 7/16" LAMINATED GLASS (3/16" AN./0.090 KURARAY (PREVIOUSLY DUPONT) SG/3/16" AN.)



**TYPICAL I.G. GLAZING DETAIL**

OPTION 1: 7/8" I.G. LAMINATED GLASS (3/16" AN./0.090 KURARAY (PREVIOUSLY DUPONT) SG/3/16" AN. EXTERIOR/1/4" AIR SPACE/3/16" TEMP. INTERIOR)



WHEN DOOR IS TO BE USED AS AN ADA DOOR AND/OR IT IS NOT REQUIRED TO HAVE A WATER RESISTANCE RATING, THE THRESHOLD CAP #18 IS NOT REQUIRED AND MAY BE REPLACED WITH ANY TYPE OF LOWER CAP. SEE WATER RESISTANCE NOTE ON THIS SHEET FOR APPLICABLE CONDITIONS FOR NON-WATER RATED DOORS.

**WATER RESISTANCE NOTE:** THESE DOORS ARE APPROVED FOR WATER INFILTRATION RESISTANCE ONLY WHEN THRESHOLD CAP PART #18 IS USED. WHEN PART #18 IS NOT USED, THESE DOORS SHALL NOT BE INSTALLED WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. WHEN NOT RATED FOR WATER INFILTRATION RESISTANCE, UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG WHERE-BY THE OVERHANG(OH) RATIO IS EQUAL TO OR MORE THAN 1.0 PER FBC.

**PRODUCT RENEWED**  
as complying with the Florida Building Code  
Acceptance No. 25-0908.04  
Expiration Date 4/15/2031  
By Ishag I. Lhach  
Miami Dade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 07/09/12	
NO.	REVISION	DESCRIPTION	DATE
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**DRAWING TITLE:** ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR

**CONSULTANTS:** W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.  
25601 AYSEN DRIVE  
PUNTA GORDA, FL 33983  
PHONE: 561-744-3424

**MANUFACTURER:** ULTIMATE DOOR OF PALM BEACH, INC.  
2800 2ND AVE. NORTH  
LAKE WORTH, FL 33461  
561-642-2828

**DRAWING NO.:** 1748  
**SHEET NO.:** 12 OF 17  
**REV.:** B

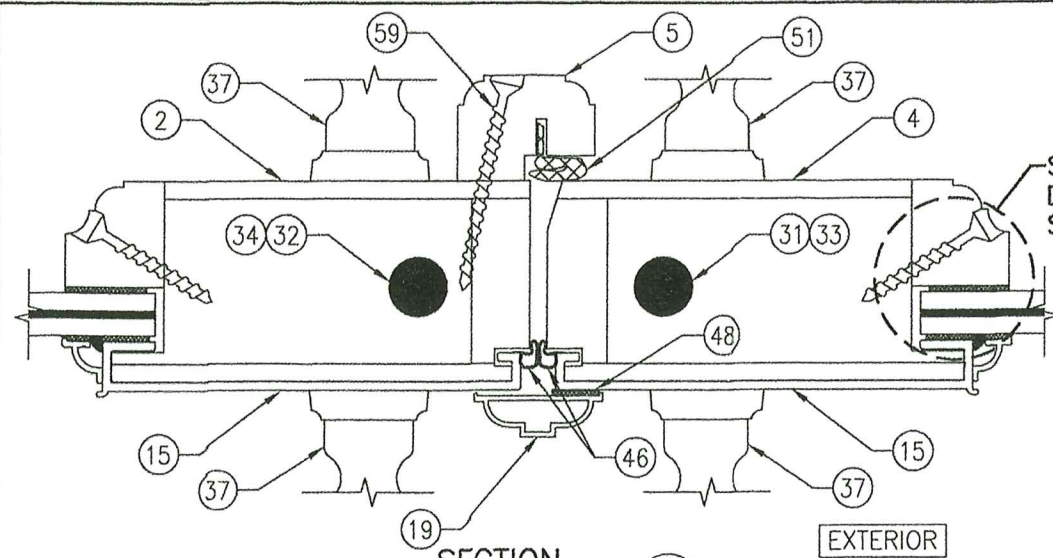
**DATE:** SEP 02 2025

**WARREN W. SCHAEFER, P.E.**  
P.E. NO. 44135

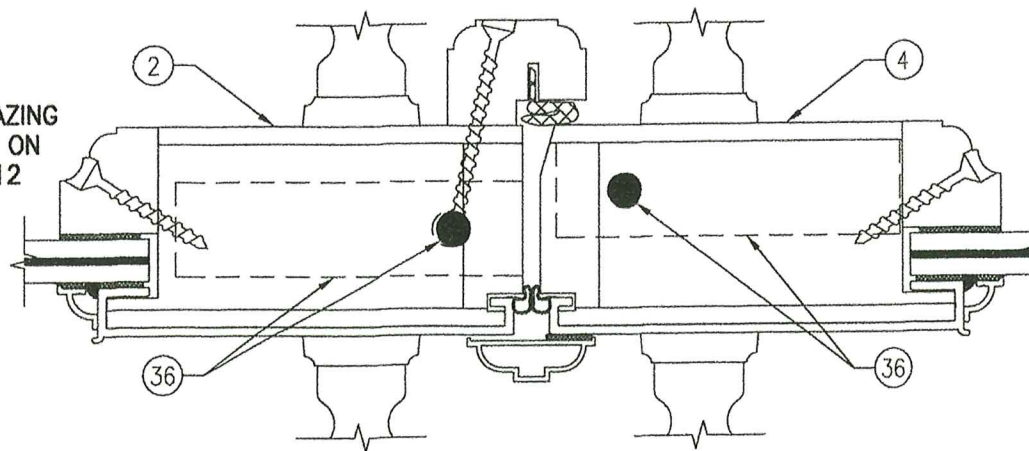




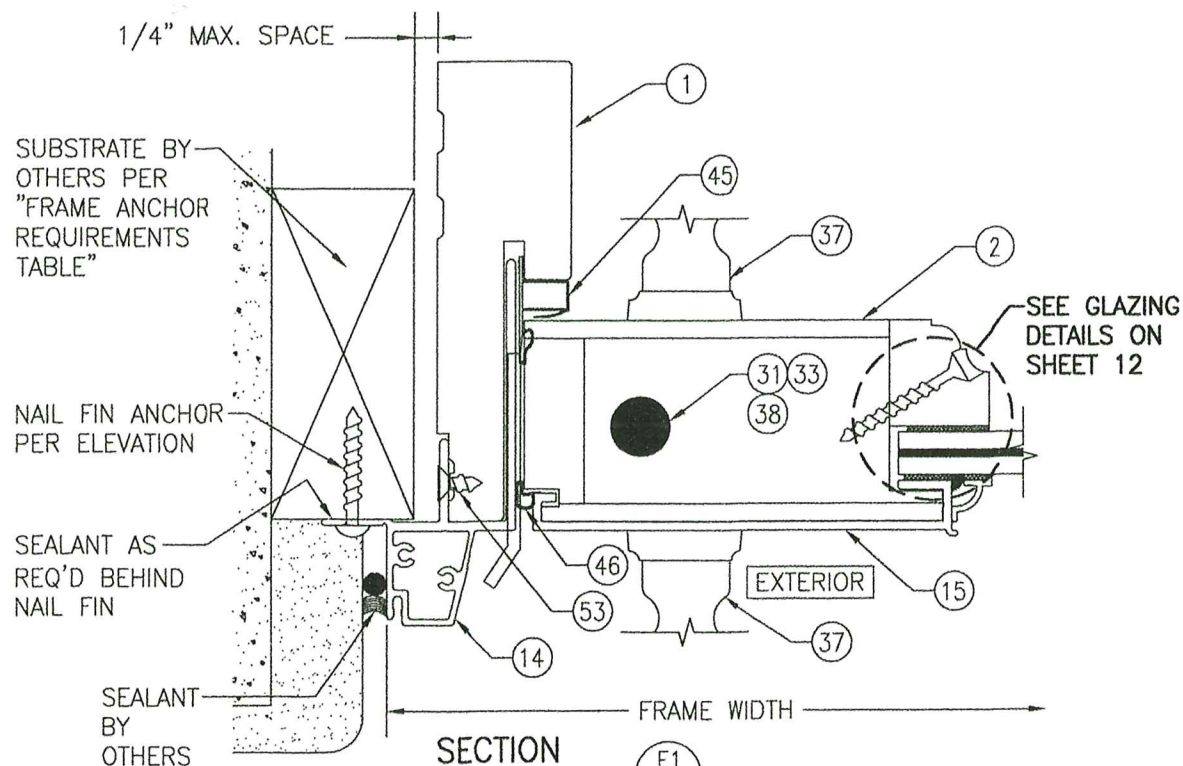




SECTION D1  
SCALE: 1/2 FULL 14

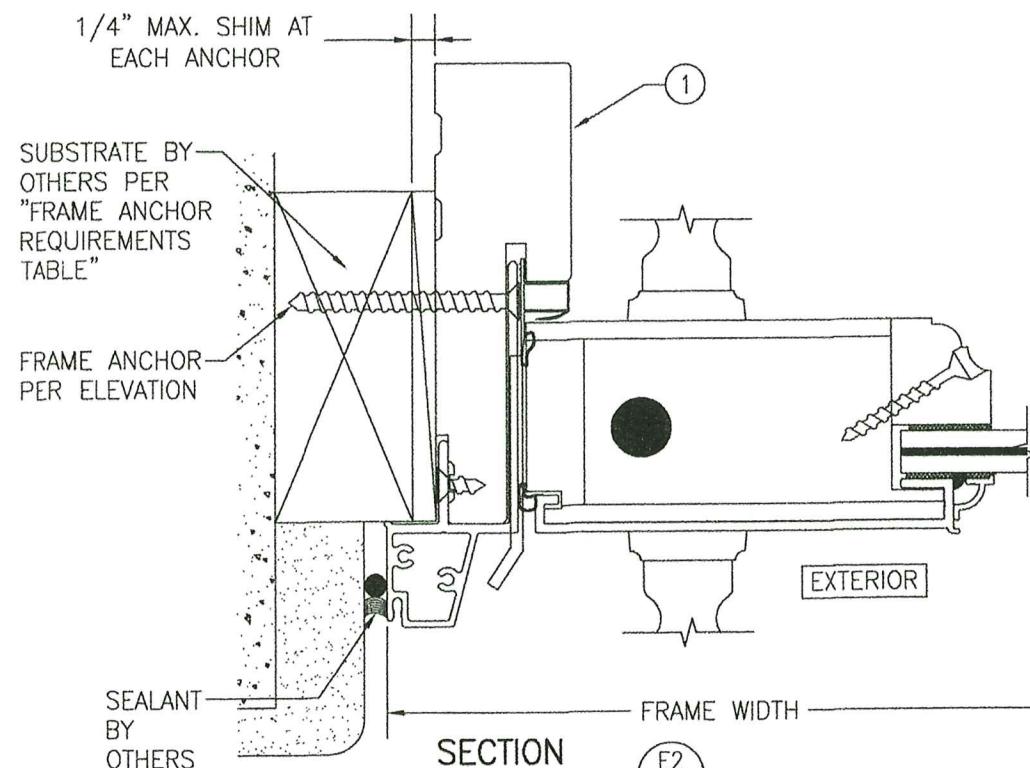


SECTION D2  
SCALE: 1/2 FULL 14  
(FOR DETAIL NOT SHOWN, SEE SECTION D1/14)



SECTION E1  
SCALE: 1/2 FULL 14  
(NAIL FIN MOUNT)

MULTI-POINT LOCK SYSTEM SHOWN.  
FLUSH BOLTS PART #36 WITH DEAD BOLT  
PART #35 ALSO APPLIES FOR USE WITH  
SINGLE RECTANGULAR DOORS.



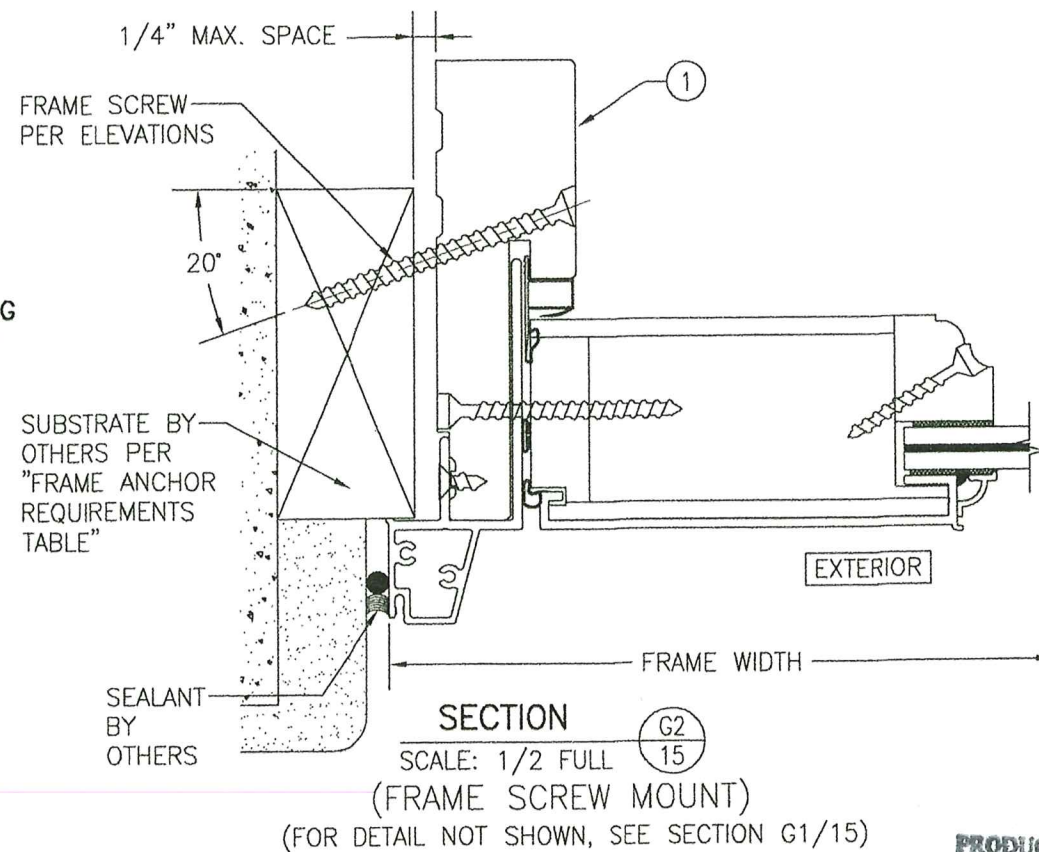
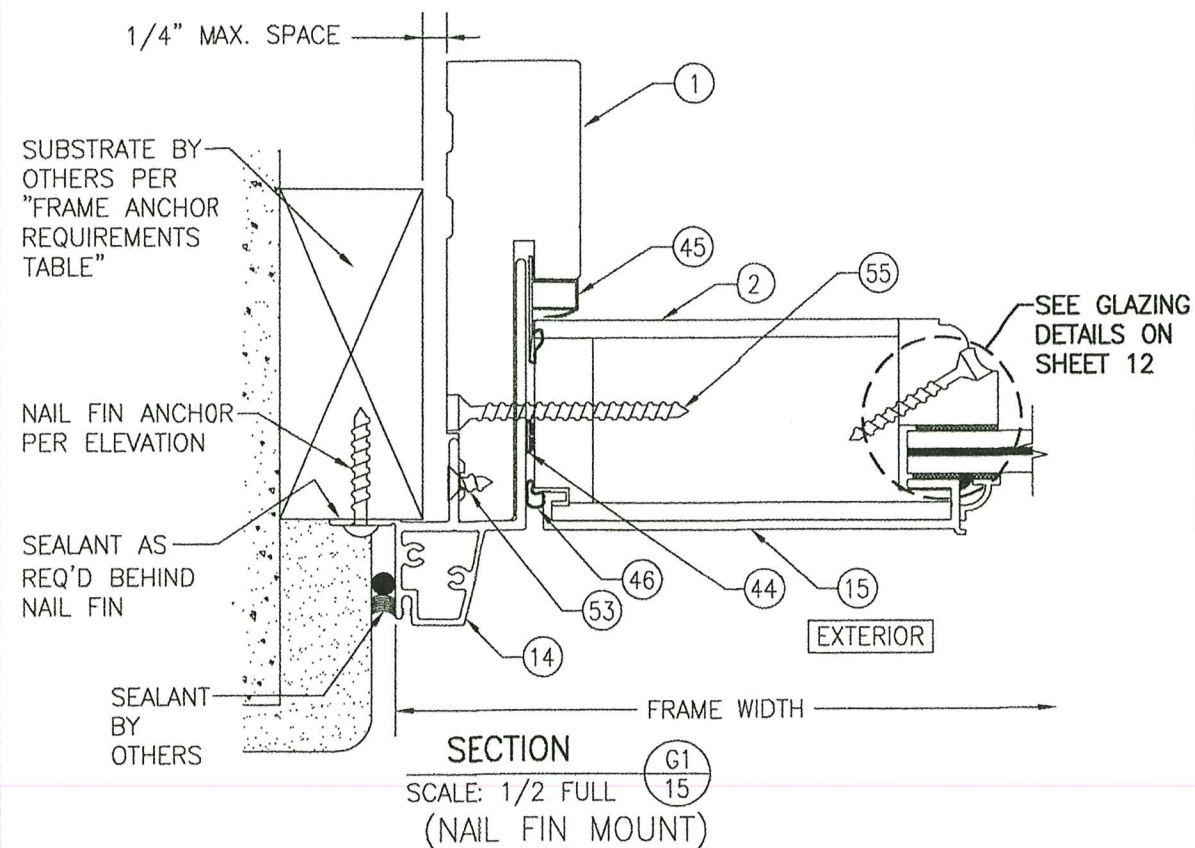
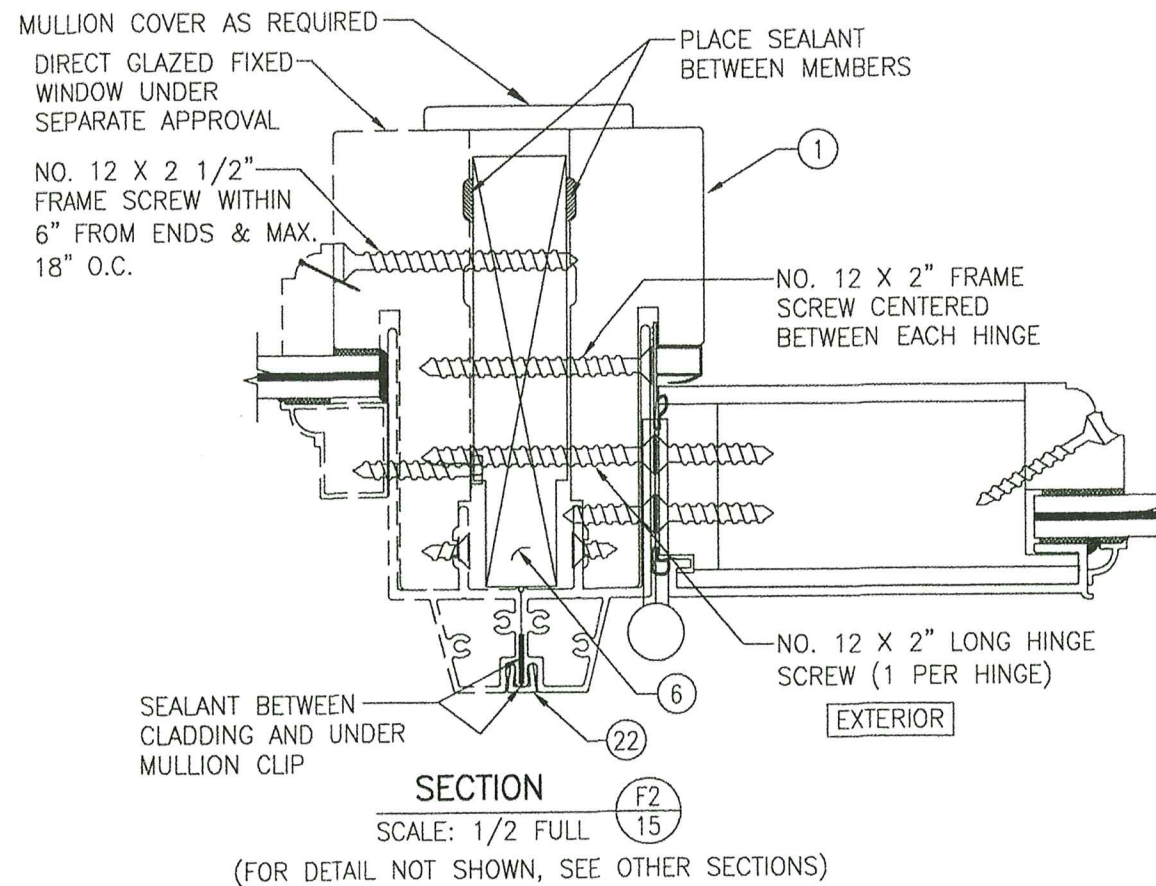
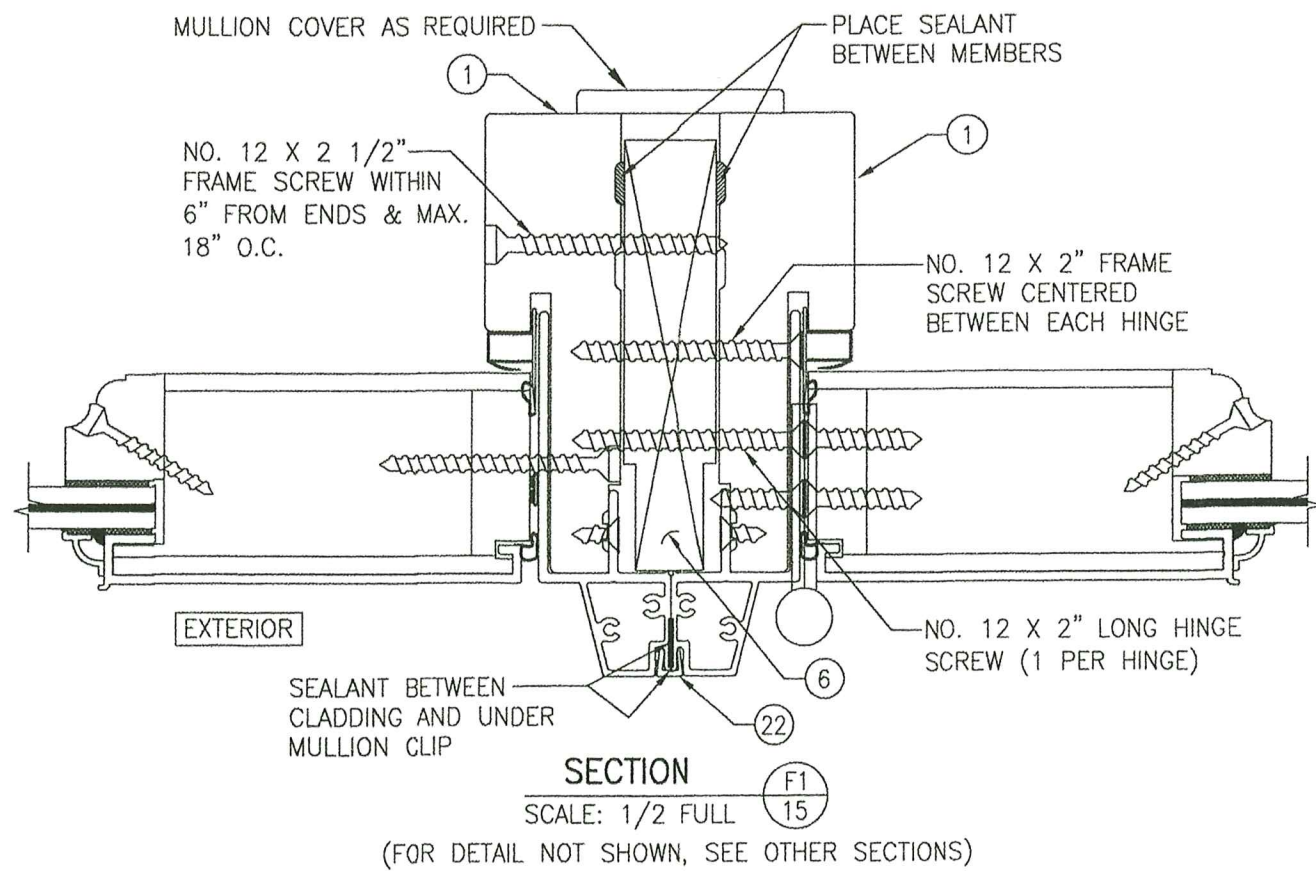
SECTION E2  
SCALE: 1/2 FULL 14  
(FRAME SCREW MOUNT)  
(FOR DETAIL NOT SHOWN, SEE SECTION E1/14)

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. 25-0906.04  
Expiration Date 9/16/2031  
By Warren W. Schaefer  
Miami Dade Product Center



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 07/09/12
NO.	DATE
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR	
MANUFACTURER ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424	
CERTIFICATION SEP 02 2025 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1748	REV. B
SHEET NO. 14 OF 17	



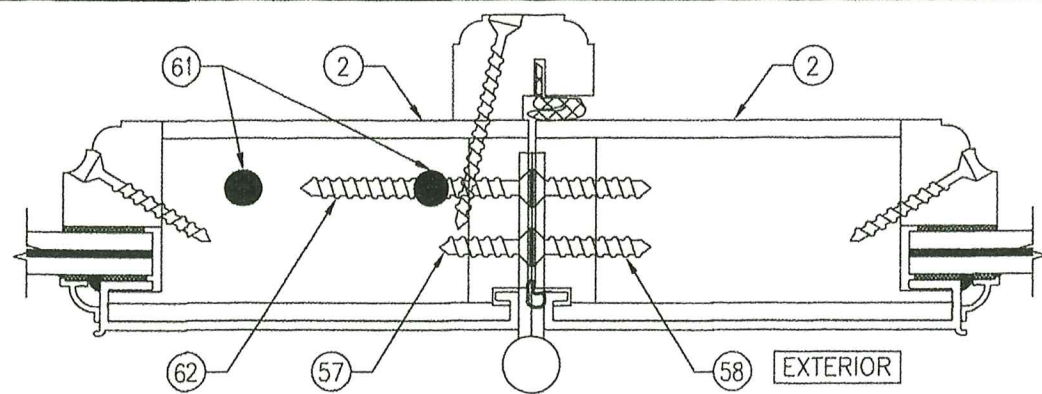


PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. 25-0908.04  
Expiration Date 9/16/2011  
By Ismael L. Hernandez  
Miami Dade Product Control



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 07/09/12
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE	ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR
MANUFACTURER	ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828
CONSULTANTS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424
CERTIFICATE NO.	SEP 02 2025
ENGINEER	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO.	1748
REV.	B
SHEET NO.	15 OF 17

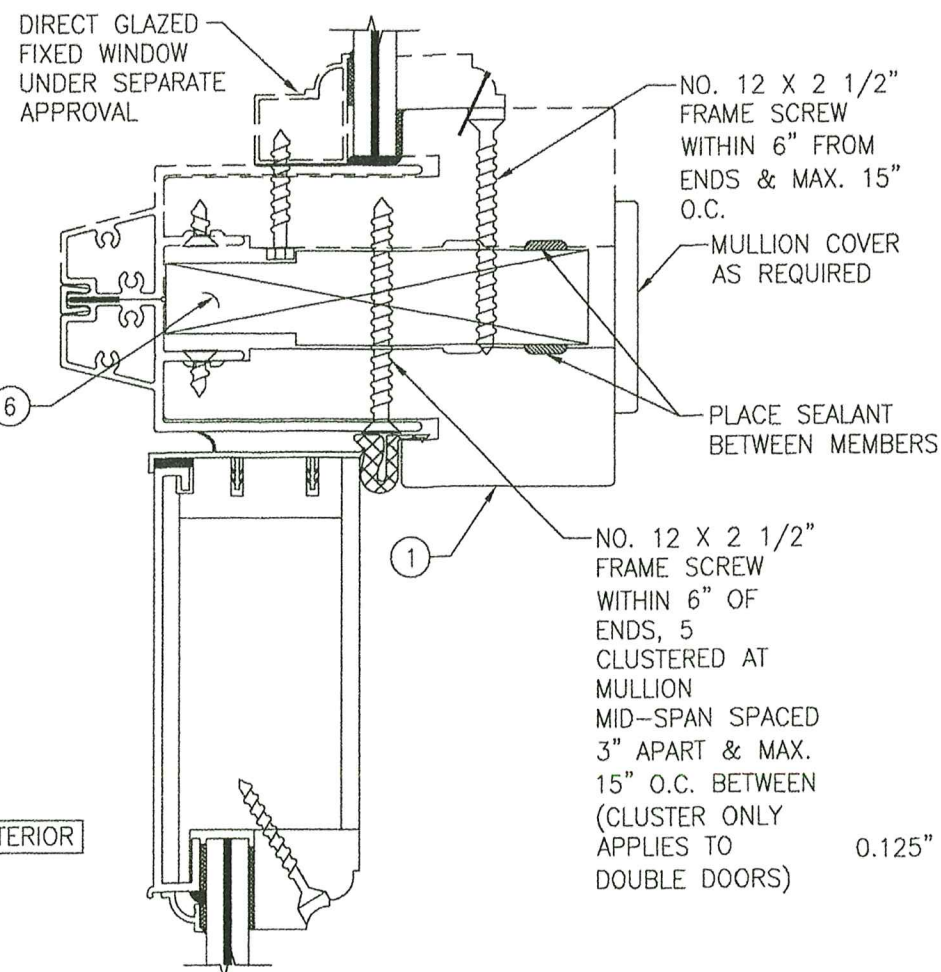




SECTION H

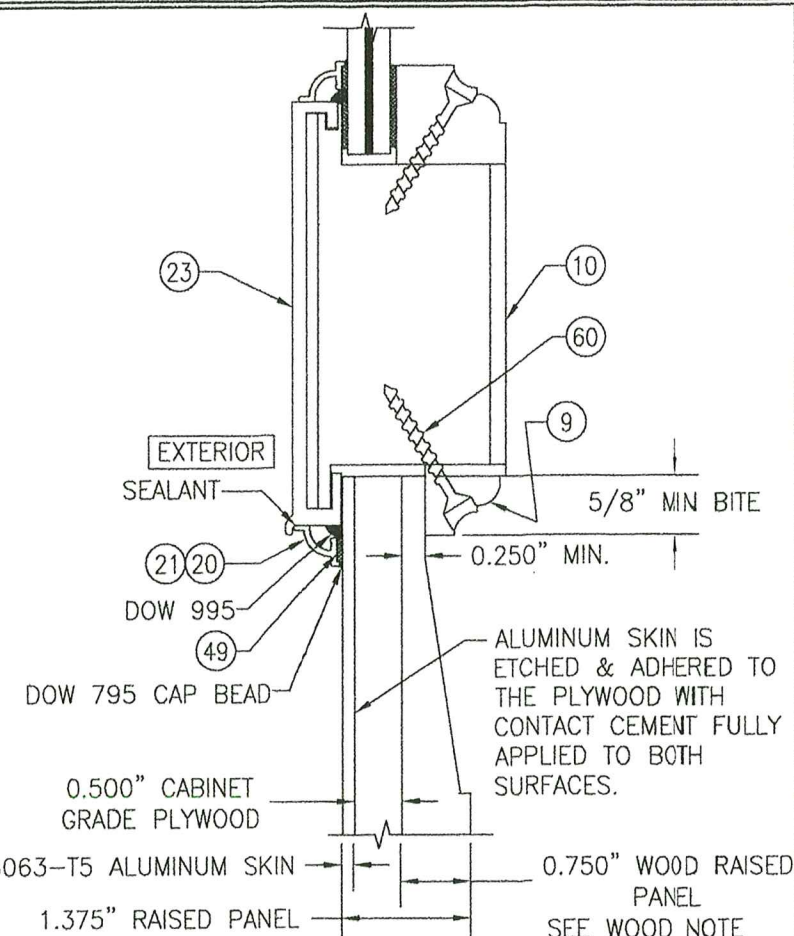
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(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



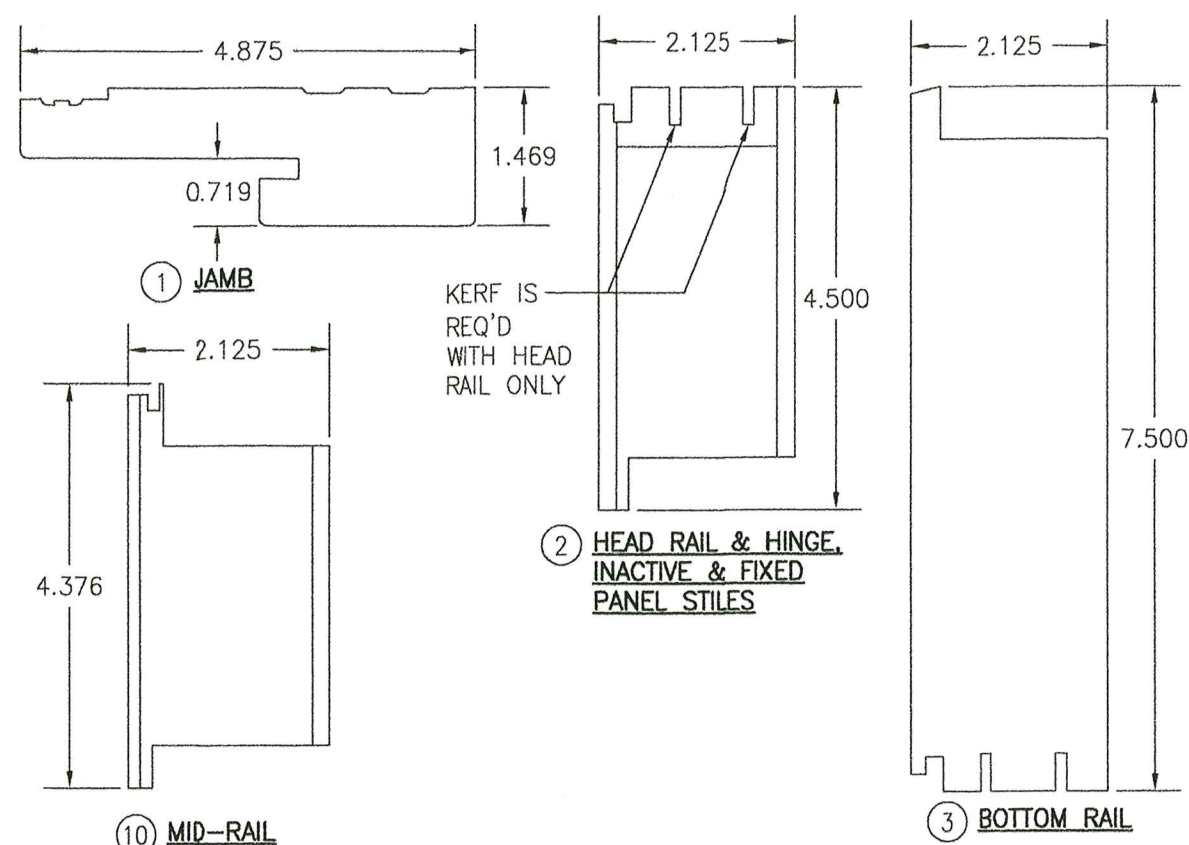
SECTION J

SCALE: 1/2 FULL



SECTION K

SCALE: 1/2 FULL



PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. 25-0908.04  
Expiration Date 4/16/2031  
By Ishag I. Umm  
Miami Dade Product Control



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 07/09/12
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR	
MANUFACTURER ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424
CERTIFICATION SEP 02 2025	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1748	REV. B
SHEET NO. 16	OF 17



