

# DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 Miami, Florida 33175-2474

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

**MIAMI-DADE COUNTY** 

www.miamidade.gov/economy

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 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., bearing the Miami–Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami–Dade County Product Control Section.

# MISSILE IMPACT RATING: 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 revises NOA # 21-0308.03 and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 & E-5, as well as approval document mentioned above.

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



Ishaq 1. Chands

NOA No. 23-0713.25 Expiration Date: April 16, 2026 Approval Date: August 10, 2023

Page 1

#### **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.

#### **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/ ASTME-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.

Ishaq I. Chands

#### Ultimate Door of Palm Beach, Inc.

#### 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. Chands

#### Ultimate Door of Palm Beach, Inc.

#### 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. Chands

#### Ultimate Door of Palm Beach, Inc.

#### NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### 5. New Evidence submitted.

#### 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.

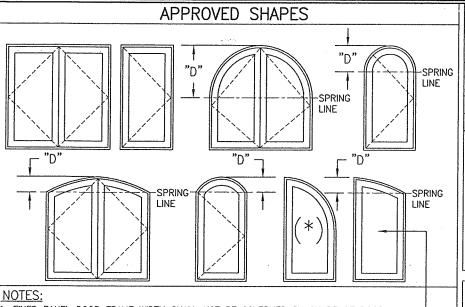
#### F. STATEMENTS

- 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. Chands



. FIXED PANEL DOOR FRAME WIDTH SHALL NOT BE GOVERNED BY SHAPE OF DOOR. . 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

**PRODUCT REVISED** as complying with the Florida **Building Code** NOA-No. 23-0713.25

Expiration Date 04/16/2026

Ishag 1. Chands **Miami-Dade Product Control**  **PRODUCT RENEWED** as complying with the Florida 21-0308.03 NOA-No.

Expiration Date 04/16/2026

Ishag 1. Chands

Miami-Dade Product Control

#### HINGE REQUIREMENTS (HALF-ROUND TOP DOUBLE DOORS)

PANEL	QUANTIT
HEIGHT	PER PAN
OVER 96"	4
96" OR LESS	3
NOTES:	
1. HINGE CENTI	
SHALL BE LOCA	ATED
<b>APPROXIMATELY</b>	3 1/2"
BELOW FRAME	
SPRING-LINE, 9	
ABOVE BOTTOM	
AND EQUALLY S	SPACED
BETWEEN.	

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

QUANTITY

PER PANEL

OVER 96	5
96" OR LESS	4
NOTES:	
1. HINGE CENT	ERLINES
SHALL BE LOCA	ATED
<b>APPROXIMATELY</b>	7 1/2"
BELOW TOP OF	DOOR
FRAME OR BEL	OW FRAME
SPRING-LINE, 9	9 1/4"
ABOVE BOTTOM	OF SILL

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

AND EQUALLY SPACED

BETWEEN.

**PANEL** 

**HEIGHT** 

OVED OC"

65.0 | 65.0 | 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) LOC	K 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.

ALLOWABLE DESIGN **PRESSURE** 

(SINGLE & DOUBLE SHAPED TOP OPERABLE DOORS)

1.1201111002	2 11 C U .D		J,10 00	11	EIGHT DO	0,10,		CENTER TO LEG.
ALL SINGL	LL SINGLE FIXED PANEL DOORS)							1. THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE
(2) MAX.	(2) MAX.		WABLE	MAX.	MAX.	TALLO	WABLE	"ALLOWABLE DESIGN PRESSURE TABLE(S)".
FRAME	FRAME		SSURE	FRAME	FRAME	PRES	SSURE	2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO
HEIGHT	WIDTH	(1) (P	'SF)	HEIGHT	WIDTH	(1) (P	'SF)	THE STRUCTURE.
(IN.)	(IN.)	POS.	NEG.	(IN.)	(IN.)	POS.	NEG.	3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY
SINGLE DOORS			SINGLE DOORS		- <del> </del>	MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO		
	43 1/2	50.0	50.0		37 1/2	50.0	50.0	BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.  4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT
	. 40 1/2	53.7	53.7		34 1/2	54.3	54.3	THE PRODUCTS TESTED & PROPOSED FOR CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203
120	37 1/2	58.0	58.0	120	31 1/2	59.3	59.5	FOR LARGE MISSILE IMPACT PRODUCTS.
	34 1/2	63.0	63.0		28 1/2	65.0	65.0	5. THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE
	32 1/2	65.0	65.0		37 1/2	55.6	55.6	(FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
	43 1/2	55.6	55.6	108	34 1/2	60.4	60.4	6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT. 7. ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE
100	40 1/2	59.7	59.7	1	31 1/2	65.0	65.0	TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF
108	37 1/2	64.4	64.4		37 1/2	58.8	58.8	RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
	36 1/2	65.0	65.0	102	34 1/2	63.9	63.9	8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE
	43 1/2	58.8	58.8	1	33 1/2	65.0	65.0	GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND
102	40 1/2	63.2	63.2	1	37 1/2	62.5	62.5	LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF Kd = 0.85 MAY BE APPLIED
	38 1/2	65.0	65.0	96	35 1/2	65.0	65.0	PER THE ASCE-7 STANDARD.
	43 1/2	62.5	62.5	92	37 1/2	65.0	65.0	9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR
96	41 1/2	65.0	65.0		DOUBLE DOO	ORS		Cd = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.  10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS,
92	43 1/2	65.0	65.0		72	50.0	50.0	THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS
	DOUBLE DO	ORS		11	66	54.5	54.5	SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.  11. AII WOOD MEMBERS OF THIS PRODUCT THAT MAY POSSIBLY
	84	50.0	50.0	120	60	60.0	60.0	COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES,
	78	53.8	53.8	11	55	65.0	65.0	ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR
120	72	58.3	58.3		72	55.6	55.6	BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC REQUIREMENTS.
	66	63.6	63.6	108	66	60.6	60.6	TRESERVATIVE FER TOO REGOINEMENTS.
	64	65.0	65.0	1	61	65.0	65.0	NOTE WHEN THE IOD DECLIDED DOCITIVE
	84	55.6	55.6		72	58.8	58.8	NOTE: WHEN THE JOB REQUIRED POSITIVE DESIGN PRESSURE EXCEEDS +50 PSF, THE
100	78	59.8	59.8	102	66	64.2	64.2	DOOR UNITS ARE NOT APPROVED FOR USE
108	72	64.8	64.8	]  [	65	65.0	65.0	WHERE WATER INFILTRATION RESISTANCE IS
	71	65.0	65.0	06	72	62.5	62.5	REQUIRED BY THE DOOR UNLESS THE UNITS
	84	58.8	58.8	96	69	65.0	65.0	ARE INSTALLED IN NON-HABITABLE AREAS
102	78	63.3	63.3	92	72	65.0	65.0	WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION OR THE UNITS
	76	65.0	65.0	(.)				ARE INSTALLED AT LOCATIONS PROTECTED BY A
00	84	62.5	62.5	(1) POSITIVE				CANOPY OR OVERHANG WHERE-BY THE
UK	80	65.0	65.0	LIMITED TO +50 PSF WHEN DOORS ARE TO BE WATER INFILTRATION				OVERHANG(OH) RATIO IS EQUAL TO OR MORE
92	84	65.0	65.0	DATED DE	TTO I LET II II I L	LINAIIO	14	THAN 1.0 PER FBC.

ALLOWABLE DESIGN

**PRESSURE** 

(ALL SINGLE & DOUBLE

RECTANGULAR OPERABLE DOORS &

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 MANUFACTURES STATED ON THESE DRAWINGS.

IESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT

**GENERAL NOTES:** 



S S ULTIMATE DOOR OF PALM BEACH, 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828 DOOR FRENCH OUT-SWING IMPACT W. SCHAEFER ENGINEERING
CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, R. 53418
PHONE: 561-744-3424 WOOD CLAD ALUMINUM ALUMINUM ું ≶ જ

1748

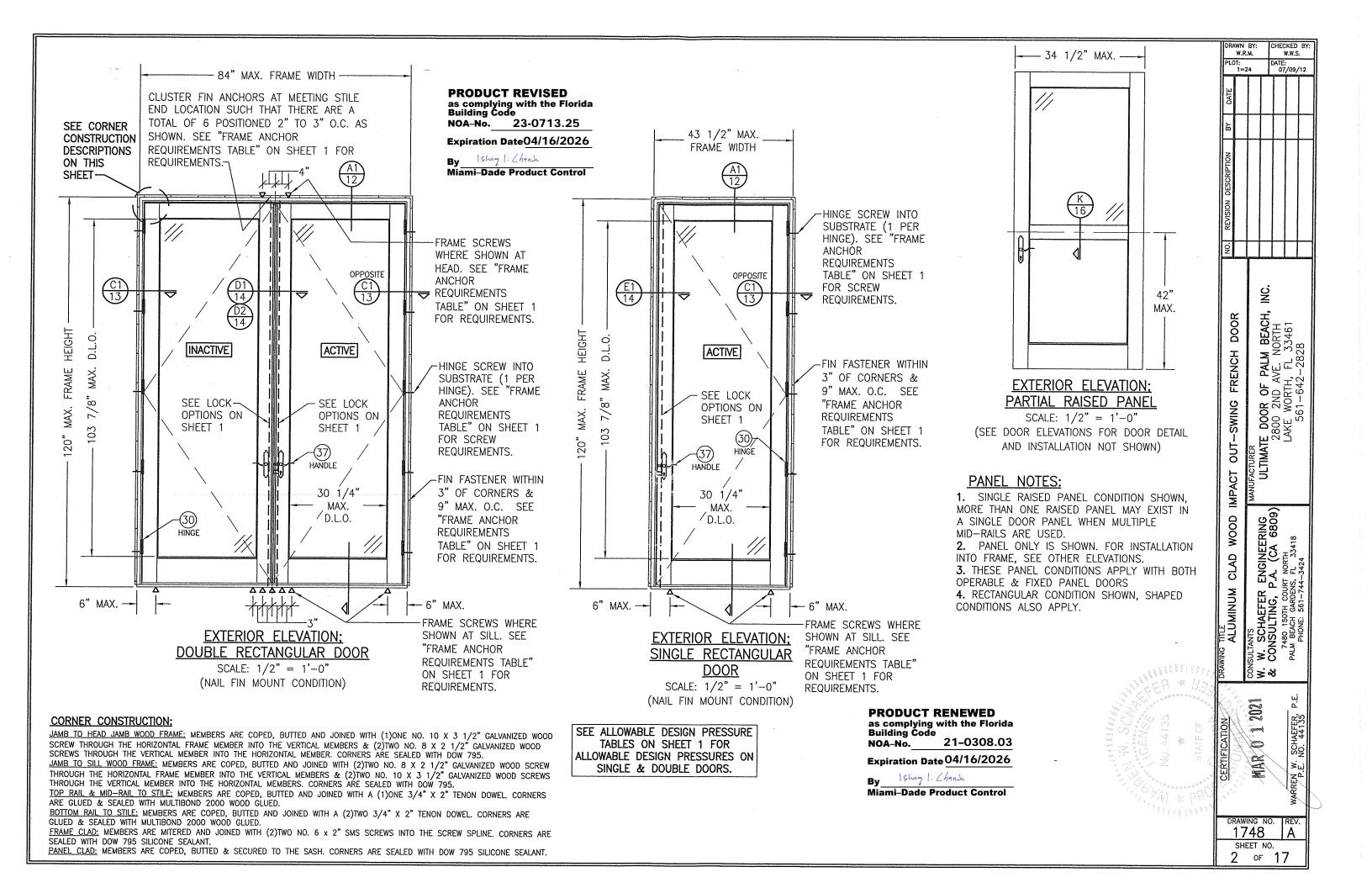
SHEET NO.

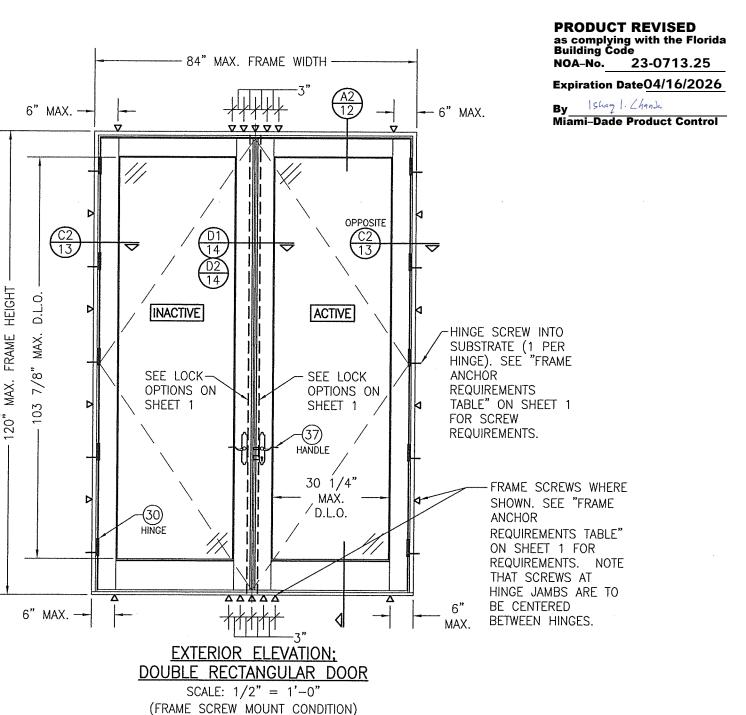
1 of 17

HECKED BY

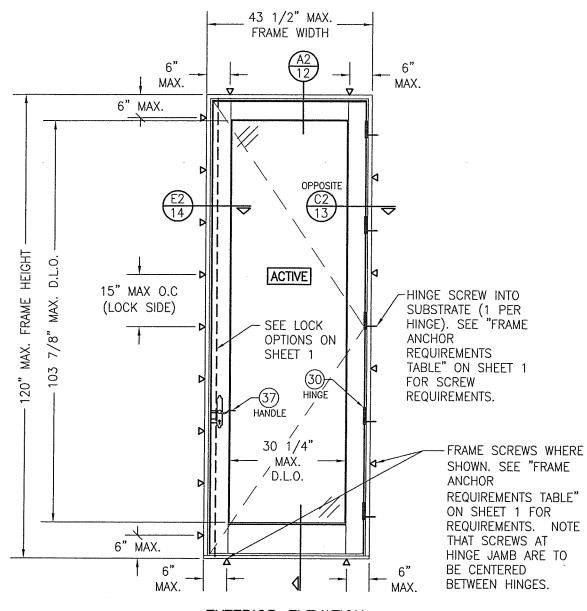
AIE: 07/09/12

1=24





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** 

NOA-No.

as complying with the Florida Building Code

Expiration Date 04/16/2026

By Shang I. Chank
Miami-Dade Product Control

21-0308.03

SCREW MOUNT CONDITION)

CERTIFICATION

ORAWING TITLE

ALUMINUM

ALUMINUM

CONSULTANTS

W. W. SCHAEFER F

& CONSULTING, P.

7480 150TH COURT

PAIN, BEACH GARDENS,

PHONE: 641, 744

3 of 17

CHECKED BY W.W.S. DATE: 07/09/12

S S

DOOR

FRENCH

OUT-SWING

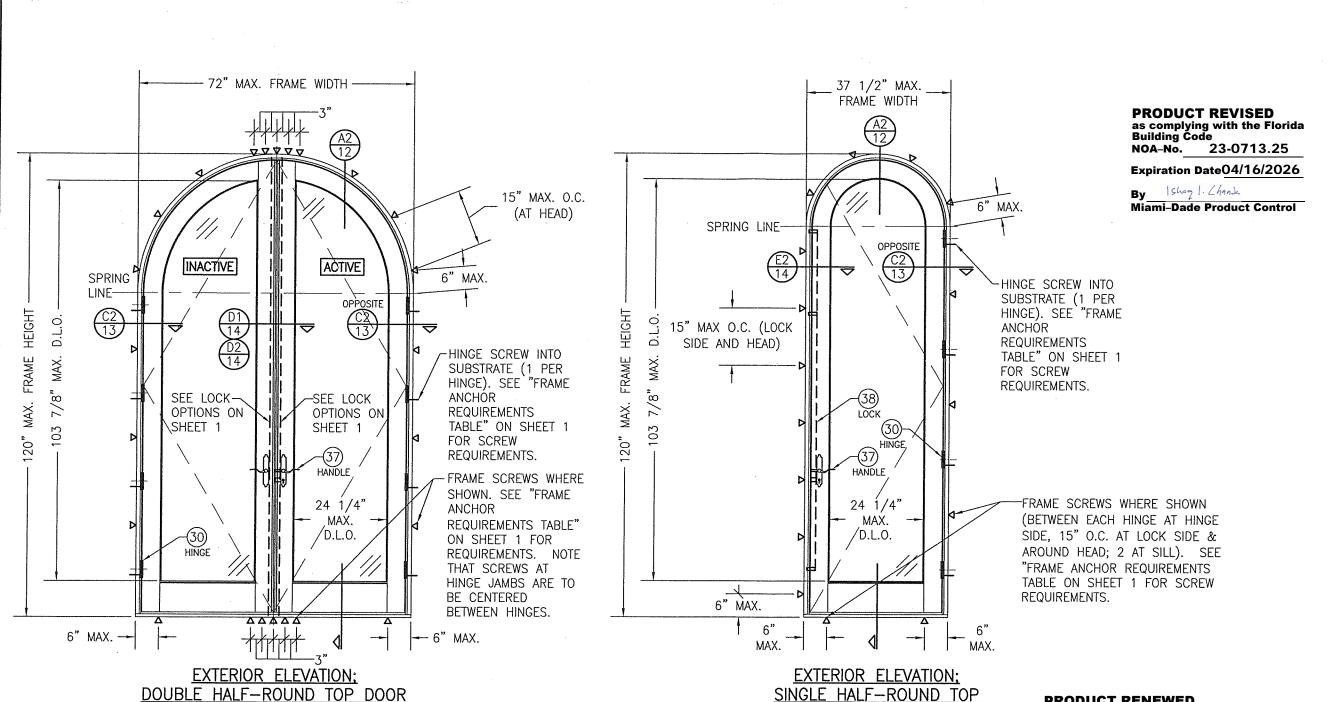
IMPACT

WOOD

CLAD

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

R. ENGINEERING P.A. (CA 6809) DUT INGTH ENS, 1. 33418



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.

# 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 21-0308.03 NOA-No.

Expiration Date 04/16/2026

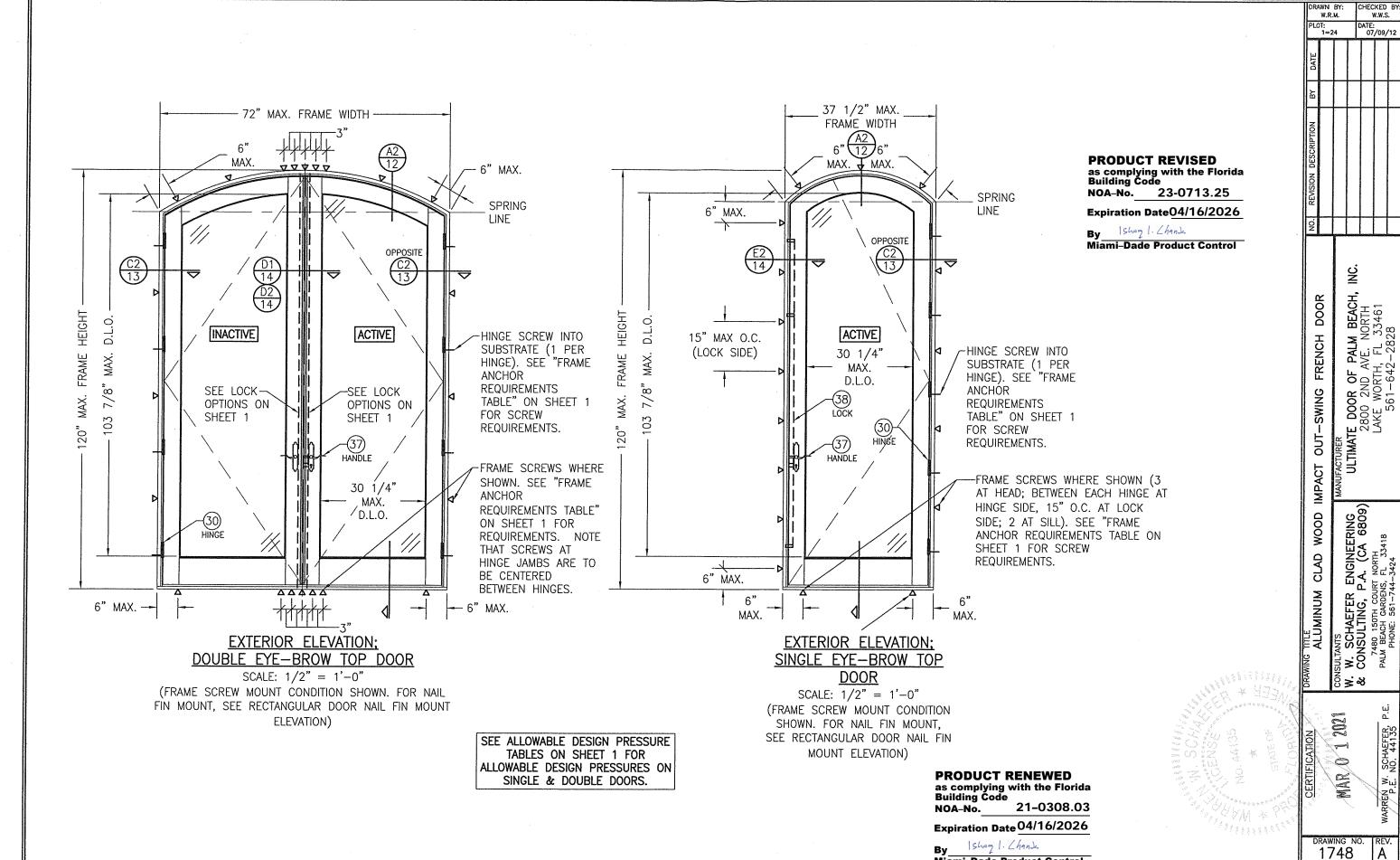
Ishaq 1. Chands Miami-Dade Product Control

.OT: 1=24 ATE: 07/09/12 S S ULTIMATE DOOR OF PALM BEACH,
2800 2ND AVE. NORTH
LAKE WORTH, FL 33461
561-642-2828 OUT-SWING IMPACT RENGINEERING P.A. (CA 6809) WOOD CLAD TITLE ALUMINUM W. SCHAEFER CONSULTING, P ું કે જ 12021

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1748 SHEET NO. 4 of 17

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Miami-Dade Product Control

07/09/12

SHEET NO. 5 of 17

# MULLION ALLOWABLE DESIGN PRESSURE (SIDE BY SIDE DOORS)

MAXIMUM	MAXIMUM		WABLE	
MULLION SPAN	LOAD WIDTH		SSURE	
(IN.)	(IN.)	<u></u>	SF)	
\	.51	POS.	NEG.	
		41.2	41.2	
	.45	46.7	46.7	
100	42	50.0	50.0	
120	39	53.8	53.8	
	36	58.3	58.3	
	33	63.6	63.6	
	31	65.0	65.0	
	54	43.2	43.2	
	51	45.8	45.8	
	45	51.9	51.9	
108	42	55.6	55.6	
	39	59.8	59.8	
	36	64.8	64.8	
	35	65.0	65.0	
	56	44.1	44.1	
	51	48.4	48.4	
102	45	54.9	54.9	
	42	58.8	58.8	
	39	63.3	63.3	
	38	65.0	65.0	
	57	46.1	46.1	
	51	51.5	51.5	
96	45	58.3	58.3	
	42	62.5	62.5	
	40	65.0	65.0	
	57	49.1	49.1	
	51	54.9	54.9	
90	48	58.3	58.3	
	45	62.2	62.2	
	43	65.0	65.0	
	57	52.6	52.6	
	51	58.8	58.8	
84	49	61.2	61.2	
	46	65.0	65.0	
	57	55.3	55.3	
<u> </u>	54	58.3	58.3	
80	51	61.8	61.8	
	49	64.3	64.3	
F	48	65.0	65.0	
			55.0	

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.

CLUSTER FIN FASTENERS AT MULLION END HEAD SUCH THAT THERE ARE A TOTAL OF 6 POSITIONED AS SHOWN. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS. 2" TO 3" 2" TO 3" PANEL PANEL CENTERLINE CENTERLINE OPPOSITE 15, F2 15 FIXED PANEL FIXED PANEL DOOR OR DIRECT DOOR OR DIRECT SPAN GLAZED WINDOW. GLAZED WINDOW. FOR DIRECT INACTIVE ACTIVE FOR DIRECT GLAZED WINDOW GLAZED WINDOW MULLION SEE DRAWING NO SEE DRAWING NO. 1749 UNDER 1749 UNDER SEPARATE SEPARATE MAX. APPROVAL FOR APPROVAL FOR DETAILS. DETAILS. 120" FOR MAX. LOAD FOR MAX. LOAD WIDTH. WIDTH, SEE "MULLION SEE "MULLION **PRESSURE PRESSURE** TABLE" ON TABLE" ON THIS SHEET THIS SHEET ΔΔΔΔΔ  $\Delta \Delta \Delta \mid \Delta \Delta \Delta$ ADDITIONAL FRAME SCREWS **EXTERIOR ELEVATION:** WHERE SHOWN AT MULLION ENDS. SEE "FRAME ANCHOR DOUBLE DOORS WITH SIDE LIGHTS REQUIREMENTS TABLE" ON SHEET SCALE: 1/2" = 1'-0"1 FOR REQUIREMENTS. (NAIL FIN MOUNT CONDITION) NOTE: OUTER-MOST SCREW ON (RECTANGULAR DOORS SHOWN, SHAPED DOORS ALSO APPLY. SEE EACH SIDE OF THE MULLION IS "APPROVED SHAPES" TABLE ON SHEET 1) NOT REQUIRED AT THE SILL WHEN

SEE SINGLE UNIT ELEVATIONS FOR FIN FASTENER REQUIREMENTS & POSITIONS AROUND EACH UNIT

CHECKED BY: W.W.S.

07/09/12

WN BY: W.R.M.

> S S

FRENCH

OUT-SWING

IMPACT

WOOD

CLAD

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

P.A. (CA 6809)

W. SCHAEFER EN CONSULTING, P.A. 7480 150TH COURT N PALM BEACH GARDENS, F PHONE: 561-744-7

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1748

SHEET NO.

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**MULTIPLE UNIT NOTES:** 

LOAD WIDTH IS 33 1/2" OR LESS OR WHEN FRAME HEIGHT IS 96"

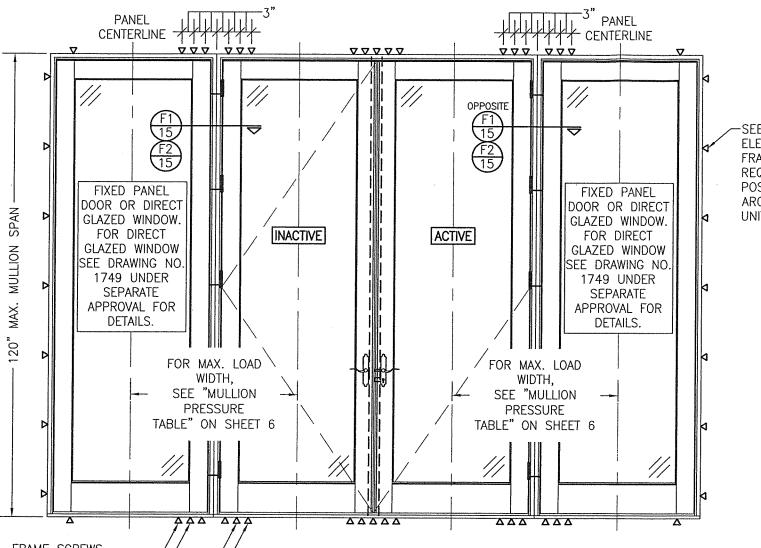
OR LESS

- 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
NOA-No. 21-0308.03

Expiration Date 04/16/2026

By | Shang | Change
Miami-Dade Product Control



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

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

OOUBLE 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
NOA-No. 21-0308.03

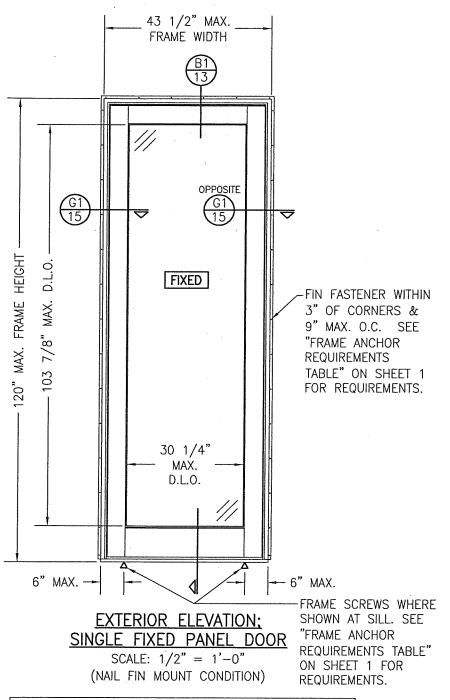
Expiration Date 04/16/2026

By Ishag 1. Chand

Miami-Dade Product Control

O7/09/12 S S F PALM BEACH, AVE. NORTH TH, FL 33461 42-2828 DOOR FRENCH UFACTUREN ULTIMATE DOOR OF F 2800 2ND AN LAKE WORTH, 561-642 OUT-SWING IMPACT P.A. (CA 6809)
DURT NORTH
FINAL TABLE 33418 WOOD CLAD ું ≶ જ 1748 SHEET NO. 7 of 17

CHECKED BY:



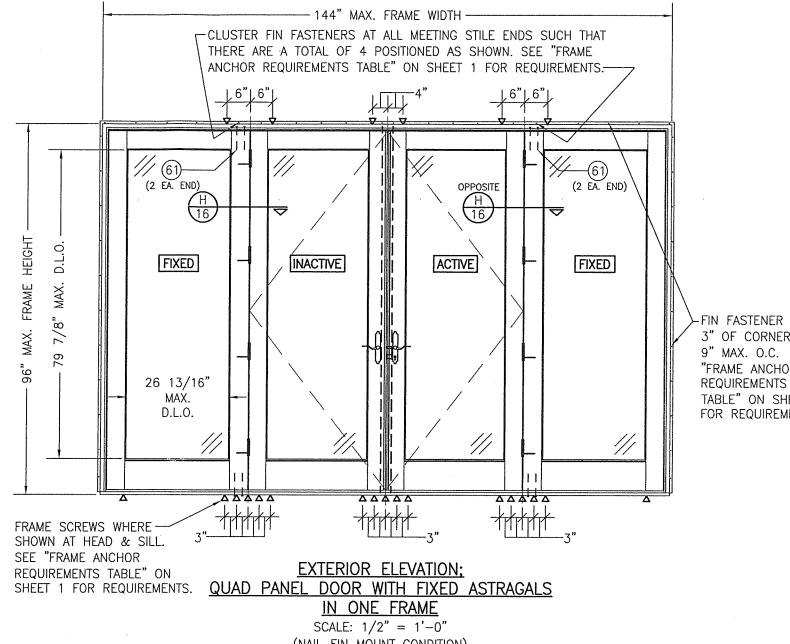
RECTANGULAR FIXED PANEL SHOWN. SHAPE TOP CONDITION ALSO APPLIES WITH ANCHORING ALONG THE FRAME CIRCUMFERENCE BEING THE SAME AS SPECIFIED FOR A STRAIGHT FRAME.

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

**PRODUCT RENEWED** as complying with the Florida Building Code NOA-No. 21-0308.03

Expiration Date 04/16/2026

Ishaq I. Chands Miami-Dade Product Control



(NAIL FIN MOUNT CONDITION)

ALLOWABLE DESIGN PRESSURE (DOORS WITH FIXED ASTRAGALS) +48/-59 PSF

### FIXED ASTRIGAL UNIT NOTES:

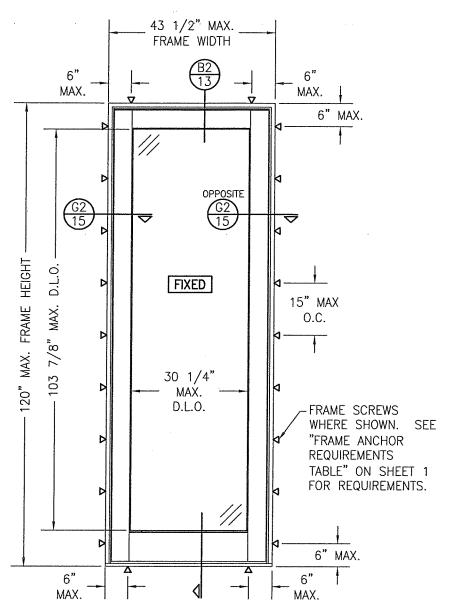
- OXXO UNIT IS SHOWN. OX, XO, OXO, XXO & OXX UNITS ALSO APPLY.
- 2. FOR DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.

S S DOOR FRENCH FIN FASTENER WITHIN 3" OF CORNERS & ULTIMATE DOOR OF F 2800 2ND AN LAKE WORTH, 561-642 9" MAX. O.C. SEE OUT-SWING TABLE" ON SHEET 1 FOR REQUIREMENTS. IMPACT CLAD ું ≯.જ 1 2021 1748 SHEET NO. 8 or 17

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CHECKED BY:

ATE: 07/09/12



## EXTERIOR ELEVATION; SINGLE FIXED PANEL DOOR

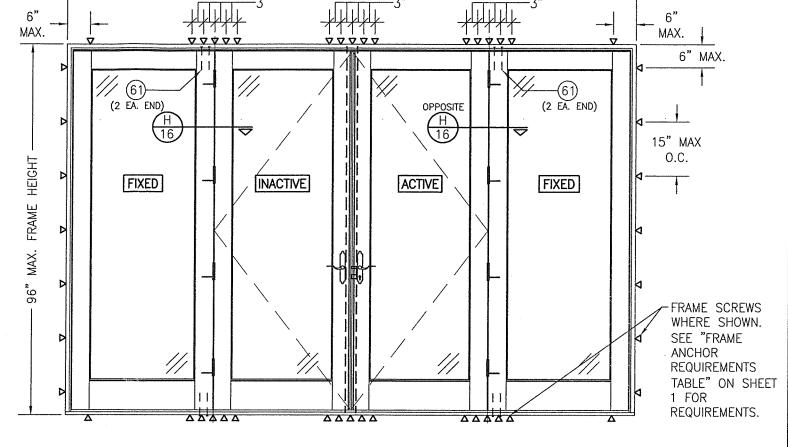
SCALE: 1/2" = 1'-0" (FRAME SCREW MOUNT CONDITION)

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. PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 21-0308.03

Expiration Date 04/16/2026

By | Shang I. Chanda
Miami-Dade Product Control



144" MAX. FRAME WIDTH

DATE: 07/09/12

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DOOR

FRENCH

OUT-SWING

IMPACT

WOOD

CLAD

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1748 A SHEET NO. 9 OF 17

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

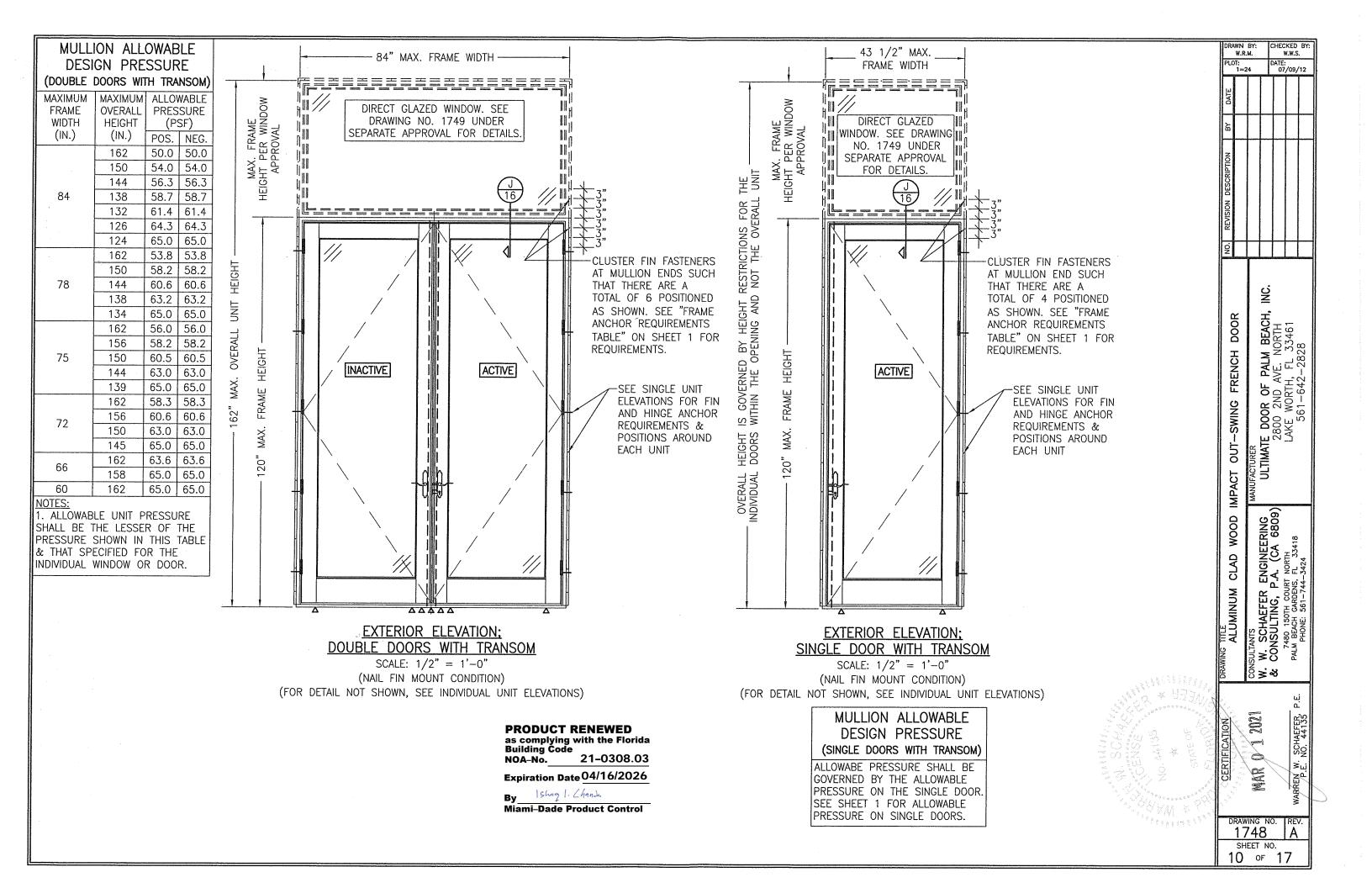
### EXTERIOR ELEVATION; QUAD PANEL DOOR WITH FIXED ASTRAGALS IN ONE FRAME

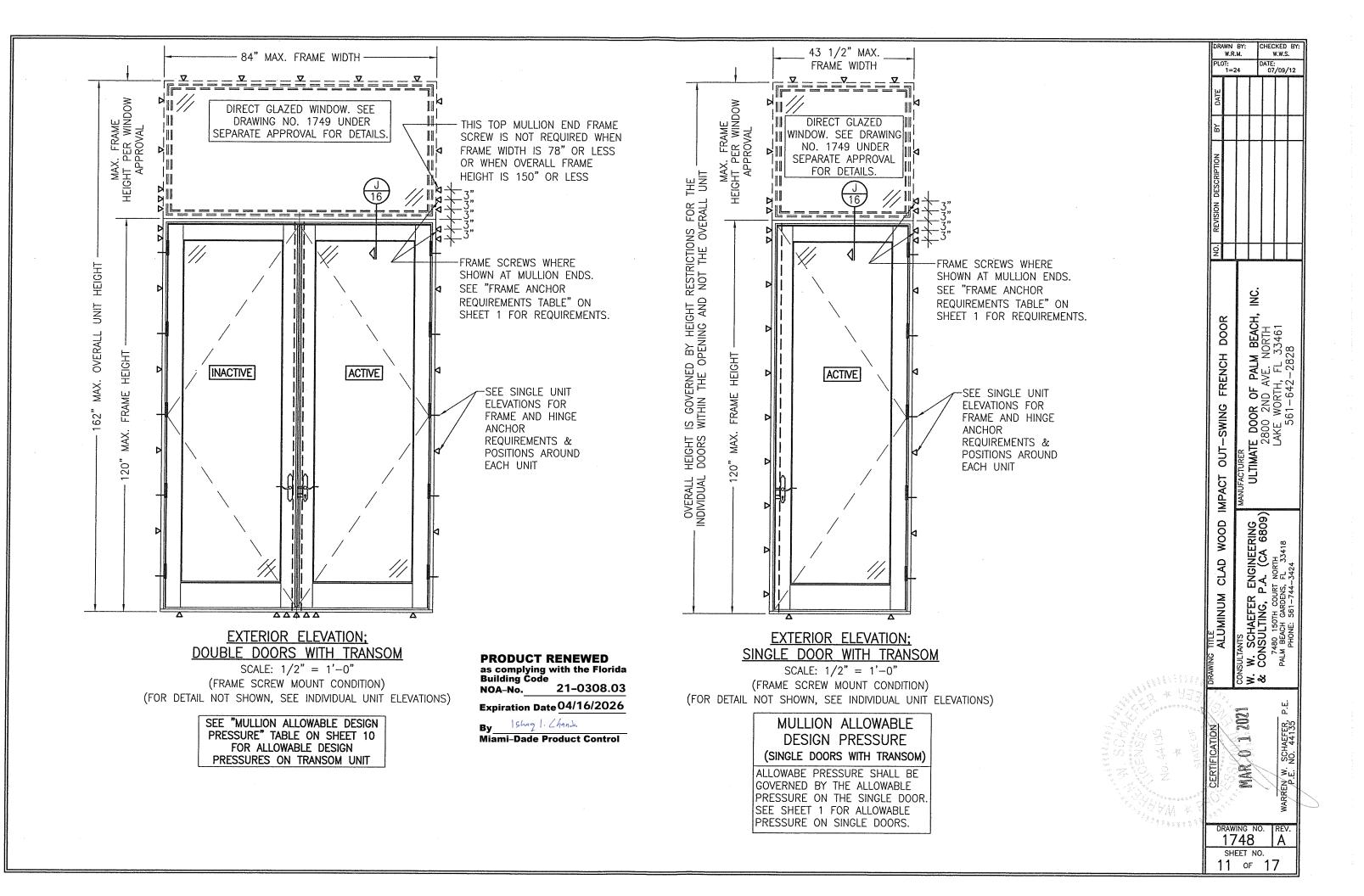
SCALE: 1/2" = 1'-0"
(FRAME SCREW MOUNT CONDITION)

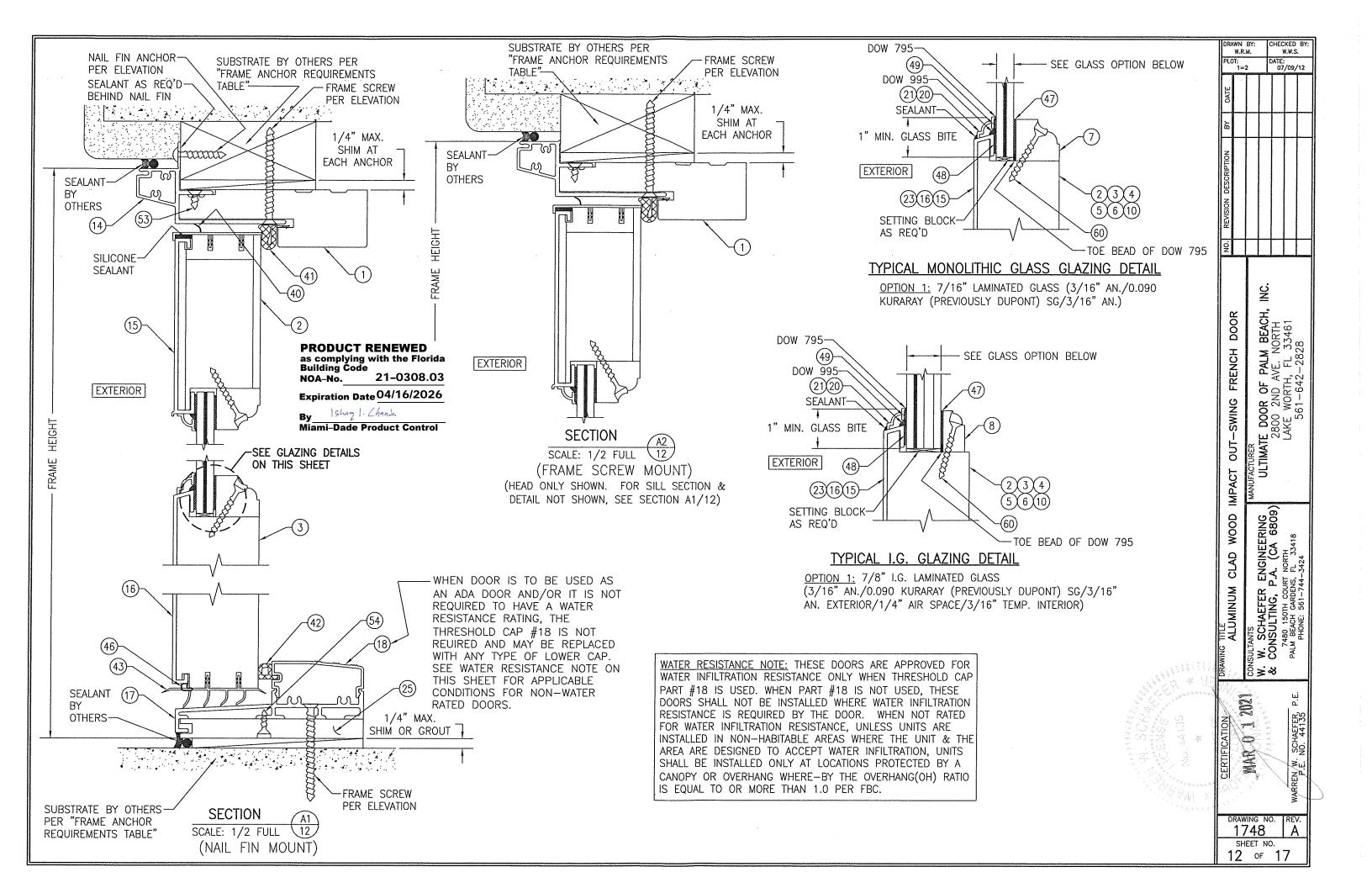
ALLOWABLE DESIGN PRESSURE (DOORS WITH FIXED ASTRAGALS) +48/-59 PSF

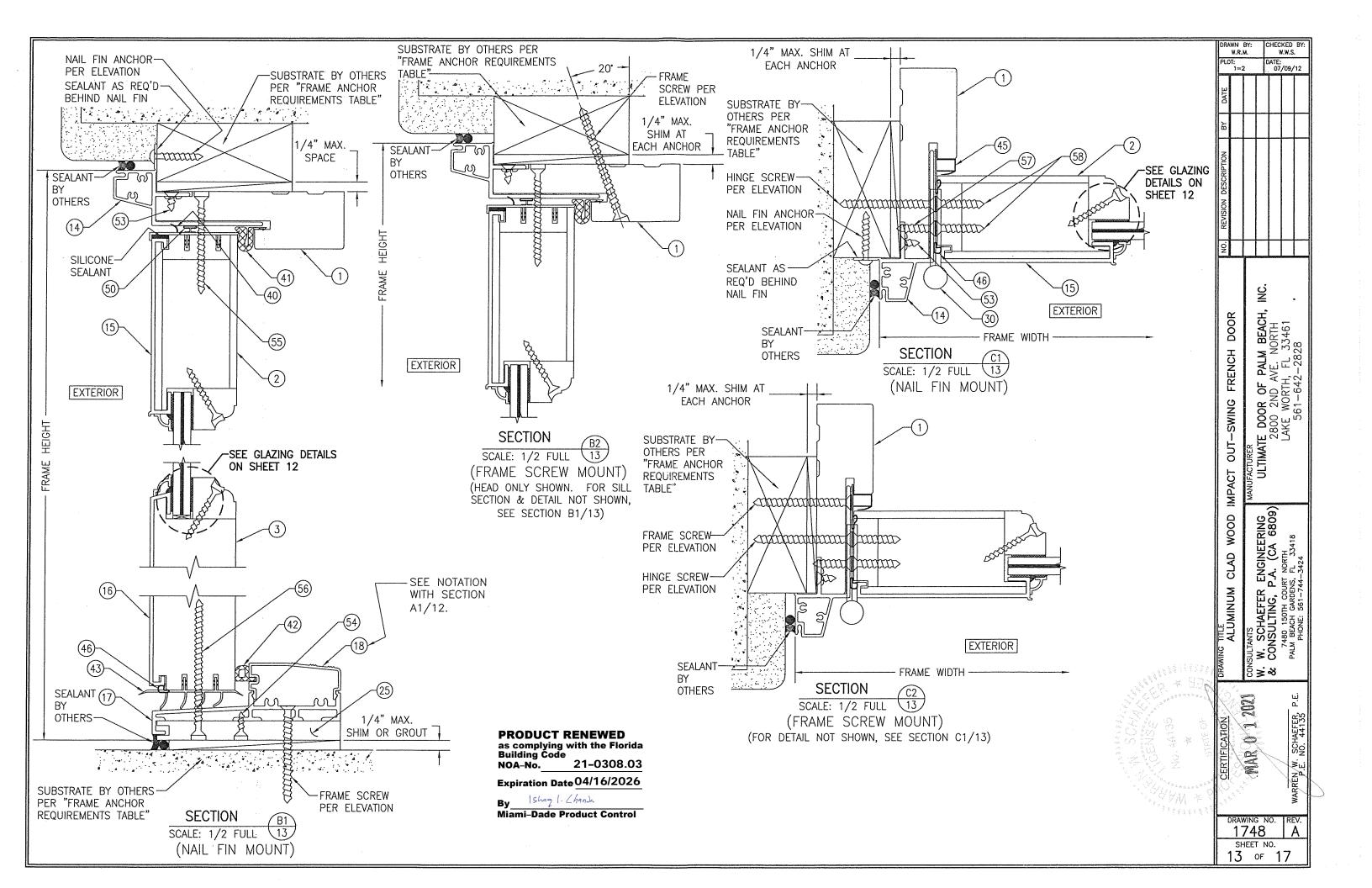
# FIXED ASTRIGAL UNIT NOTES:

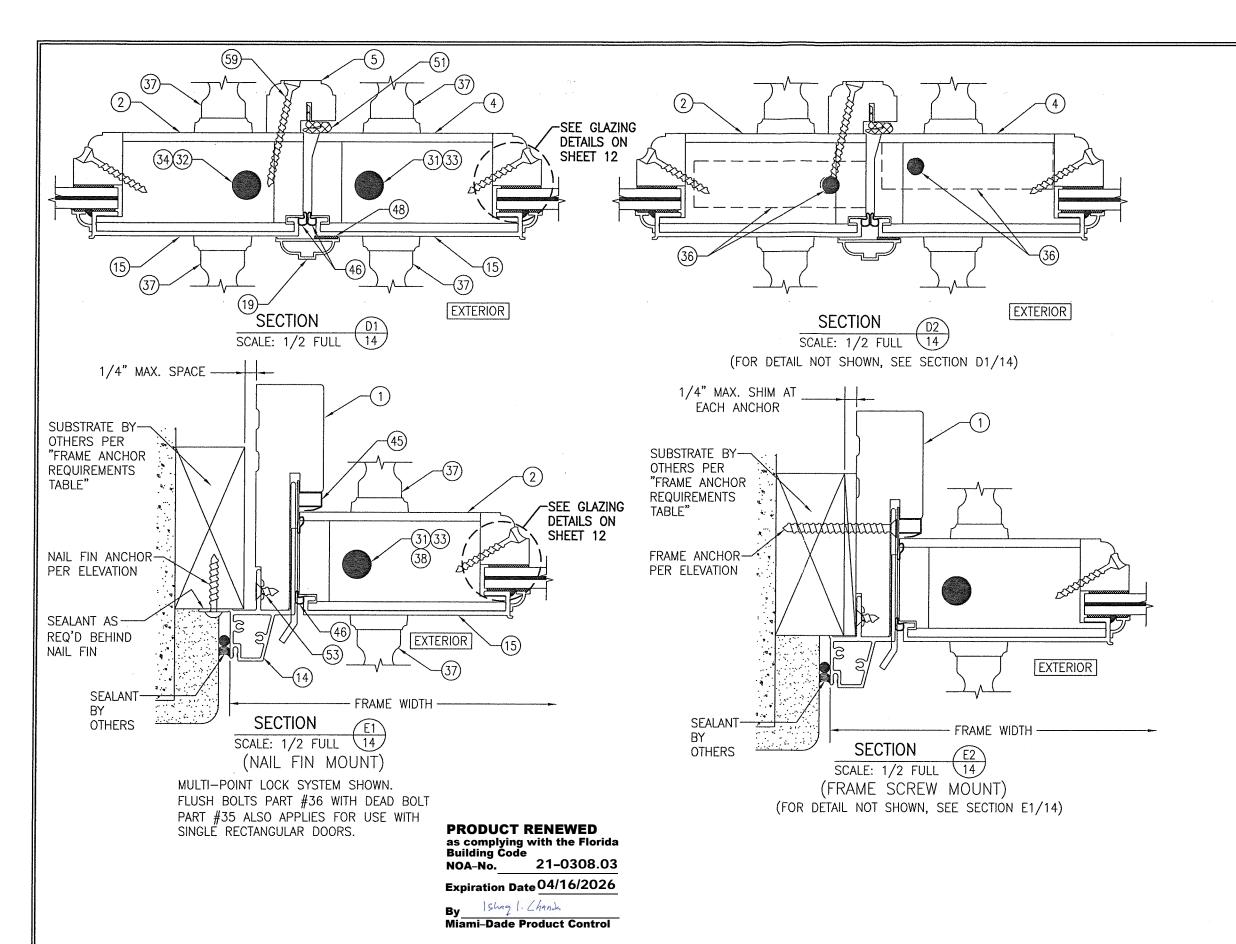
- 1. OXXO UNIT IS SHOWN. OX, XO, OXO, XXO & OXX UNITS ALSO APPLY.
- 2. FOR DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.





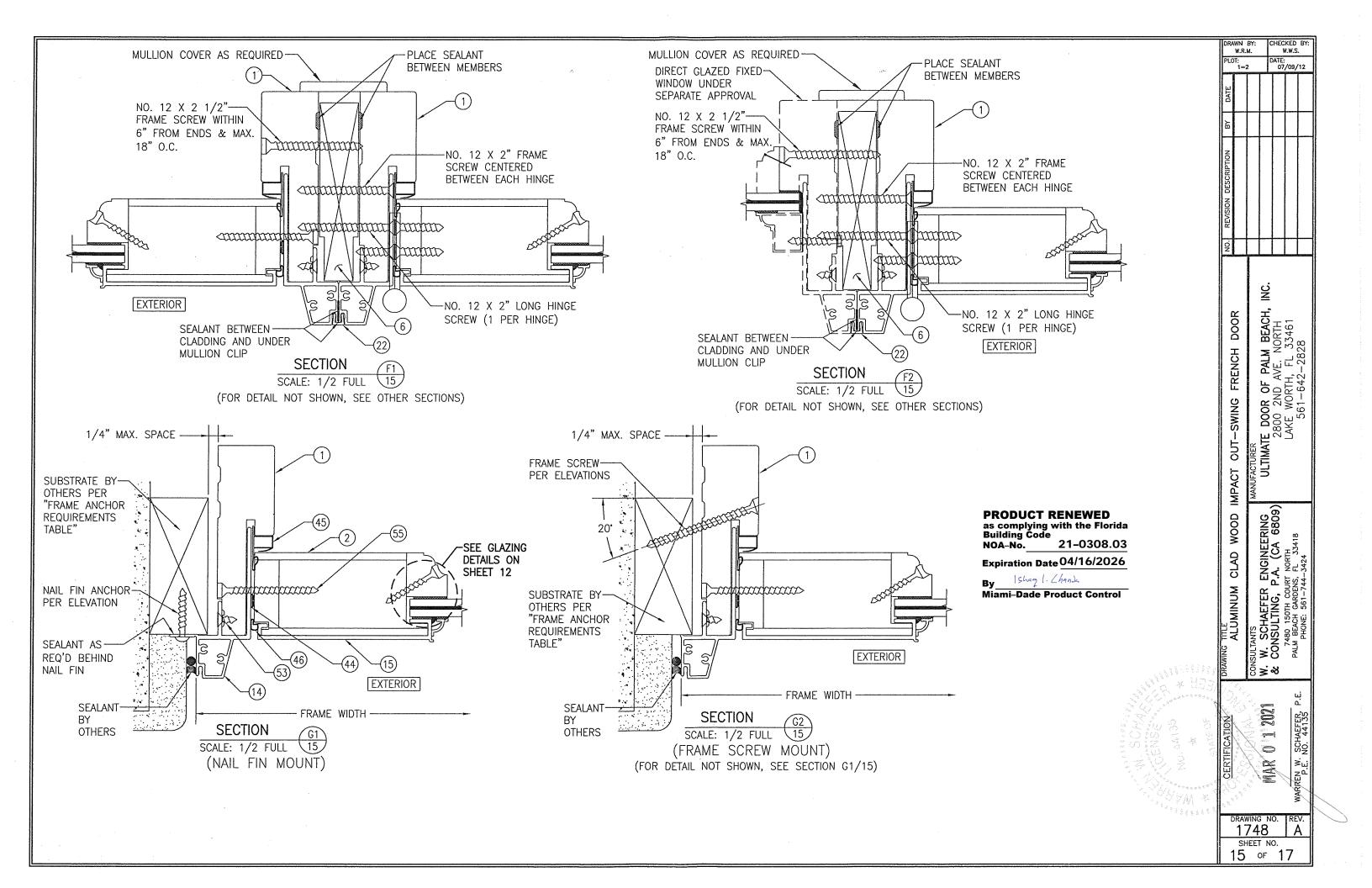


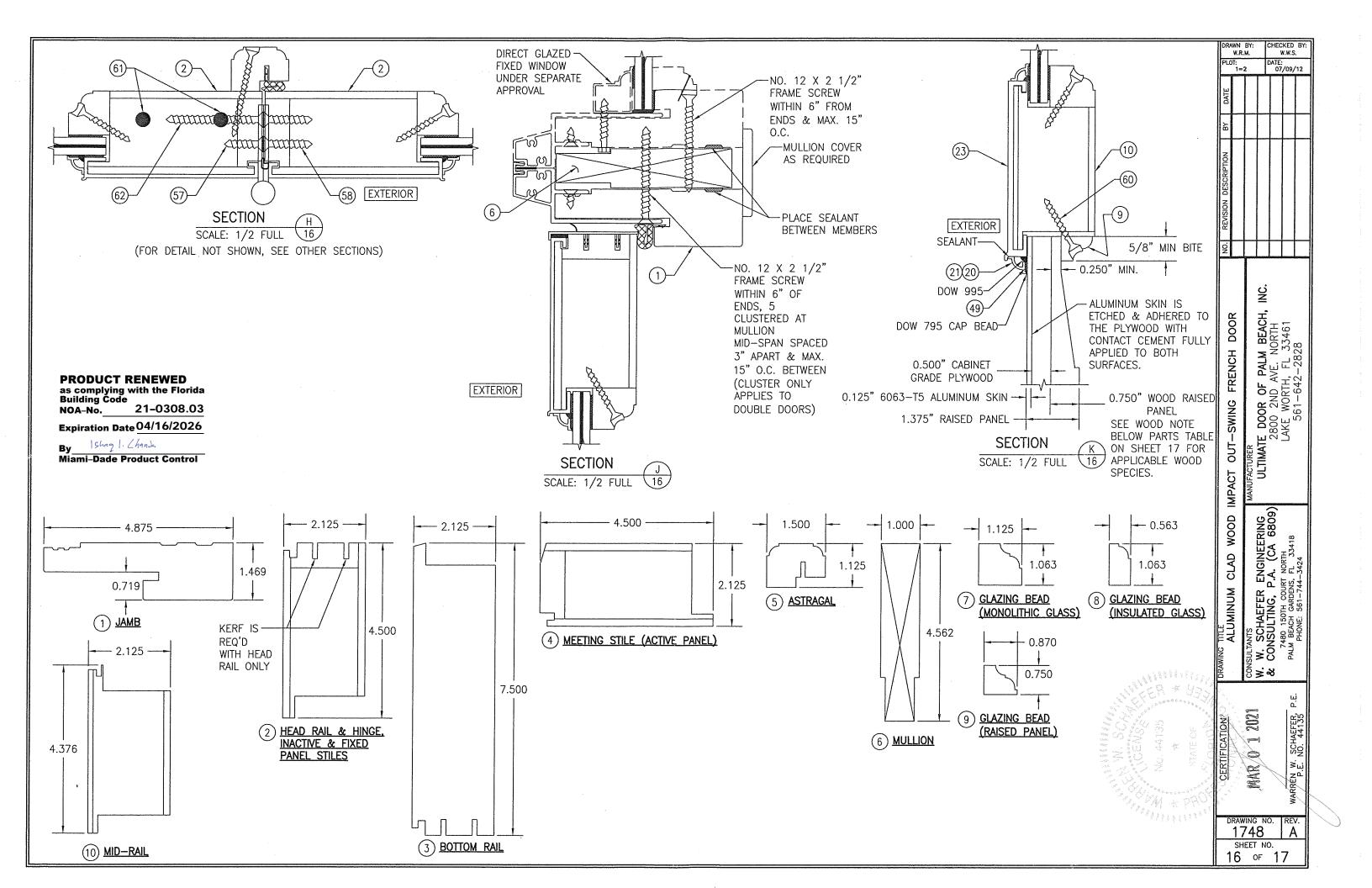




FRENCH OUT-SWING ULTIMATE IMPACT WOOD TITLE ALUMINUM CLAD MAR 0 1 2021 1748 SHEET NO.

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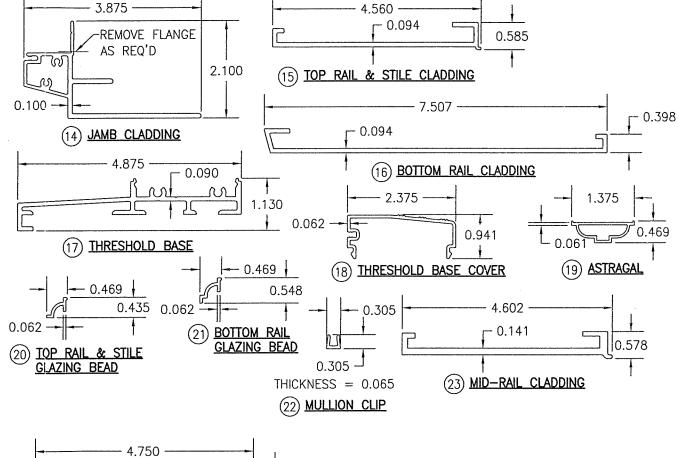




ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES	
	PARTS		
1	JAMB	WOOD	
2	HEAD RAIL & HINGE, INACTIVE & FIXED PANEL STILES	WOOD	
3	BOTTOM RAIL	WOOD	
4	HINGE & FIXED PANEL STILE	WOOD	
5	ASTRAGAL	WOOD	
6	MULLION	WOOD	
7	GLAZING BEAD (MONOLITHIC GLASS)	WOOD	
8	GLAZING BEAD (INSULATED GLASS)	WOOD	
9	GLAZING BEAD (RAISED PANEL)	WOOD	
10	MID-RAIL	WOOD	
14	JAMB CLADDING	6063-T5 ALUMINUM	
15	TOP RAIL & STILE CLADDING	6063-T5 ALUMINUM	
16	BOTTOM RAIL CLADDING	6063-T5 ALUMINUM	
17	THRESHOLD BASE	6063-T5 ALUMINUM	
18	THRESHOLD BASE COVER	6063-T5 ALUMINUM	
19	ASTRAGAL	6063-T5 ALUMINUM	
20	TOP RAIL & STILE GLAZING BEAD	6063-T4 ALUMINUM	
21	BOTTOM RAIL GLAZING BEAD	6063—T5 ALUMINUM	
22	MULLION CLIP	6063-T5 ALUMINUM	
23	MID-RAIL CLADDING	6063-T5 ALUMINUM	
25	SUB-SILL	PVC	
20	HARDWARE		
30	4 1/2" X 4 1/2" BUTT HINGE	HAGER 1191 BRASS WITH S.S. BALL BEARINGS	
31	3-POINT LOCK SYSTEM (SHOOT BOLTS & DEADBOLT)	ULTIMATE DOOR UD120A	
32	2-POINT LOCK SYSTEM (SHOOT BOLTS)	ULTIMATE DOOR UD120B	
33	3-POINT LOCK SYSTEM (SHOOT BOLTS & DEADBOLT)	HARDKING SS963 MODIFIED	
34	2-POINT LOCK SYSTEM (SHOOT BOLTS)	HARDKING SS963 MODIFIED	
35	DEADBOLT	SCHLAGE B100 OR EQUIVALENT	
36	FLUSH BOLT	HAGER BRASS 282D	
37	HANDLE	AS REQUIRED TO OPERATE LOCK	
38	4-POINT LOCK SYSTEM (TONGUE BOLTS & DEADBOLT)	SCHLEGEL FFNS—3300	
	SEALS & SEALANTS	JOHELOLE TING COOK	
40	TOP SWEEP	PREFERRED PLASTICS EPDM ULTIL 9483360092	
41	KERF WEATHERSTRIP	SCHLEGEL QLON QEBD 875	
42	THRESHOLD CAP WEATHERSTRIP	PREFERRED PLASTICS EPDM GTCWL 9421815012	
43	BOTTOM SWEEP	PREFERRED PLASTICS EPDM ULTIL 9411357562	
44	FIXED STILE BULB WEATHERSTRIP	PEMCO SILICONE S88W510	
45	HINGE WEATHERSTRIP	PREFERRED PLASTICS SILICONE ULTIL 9430965012	
46	PANEL BULB WEATHERSTRIP	SCHLEGEL THERMOPLASTIC AP-425	
47	GLAZING TAPE 1/16" X 7/8"	SAINT GOBIAN V2862	
48	GLAZING TAPE 1/16 X 7/6 GLAZING TAPE 1/16" X 1/2"	SAINT GOBIAN V2862	
	GLAZING TAPE 1/16 X 1/2 GLAZING TAPE 1/16" X 1/4"	SAINT GOBIAN V2862	
49			
50	FIXED PANEL TOP WEATHERSTRIP	PEMKO VINYL V41GR	
51	KERF WEATHERSTRIP	SCHLEGEL QLON QDS 650	

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
	FASTENERS FASTENERS	. v.
53	NO. 6 X 3/4" SMS	3" FROM CORNERS & 12" MAX. O.C.
54	NO. 6 X 3/4" SMS	2" FROM ENDS & 16" MAX. O.C.
55	NO. 8 X 2 1/2" WOOD SCREW	3" FROM CORNERS & 9" MAX. O.C.
56	NO. 10 X 3 1/2" WOOD SCREW	3" FROM CORRNERS & 9" MAX. O.C.
57	NO. 12 X 1" S.S. SMS SCREW	3 PER HINGE
58	NO. 12 X 1 1/4" S.S. SMS SCREW	4 PER HINGE
59	NO. 7 X 2 1/4 WOOD SCREW	1 1/2" FROM ENDS & 11" MAX. O.C.
60	NO. 6 X 1 5/8" WOOD SCREW	2" FROM CORNERS & 9" MAX. O.C.
61	3/8" X 6" GALV. LAG BOLT WITH 1/4" WASHER	2 PER FIXED PANEL DOORS
62	NO. 12 X 2" S.S. SMS SCREW	1 PER HINGE
	NO. 12 X 2" S.S. SMS SCREW	<u> </u>

NOTE: WOOD USED IN TESTING WAS PONDEROSA PINE WITH A SPECIFIC GRAVITY OF G=0.43 AND A MODULUS OF ELASTICITY OF E=1,200,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY ULTIMATE DOOR TO SELECT.



product renewed as complying with the Florida Building Code NOA-No. 21-0308.03 Expiration Date 04/16/2026

<u>\_\_\_\_</u> 0.500

25 SUB-SILL

By Ishan I. Chank
Miami-Dade Product Control

THE SECONSULTING PARTIES ALUMINUM CLAD WOOD IN ALUMINUM CLAD WOOD IN ALUMINUM CLAD WOOD IN ALUMINUM CLAD WOOD IN CONSULTING P.A. (CA 6809)

W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)

ARE THE PAIR BEACH GREENS P.E. PAIR BEACH GREEN P.E. PAIR BEACH GREENS P.E. PAIR BEACH GREENS P.E. PAIR BEACH GREEN P.E. PAIR B.E. PAI

CHECKED BY: W.W.S.

07/09/12

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ULTIMATE

DOOR

FRENCH

OUT-SWING

IMPACT

M BEACH, NORTH 33461

DRAWN BY: W.R.M.