



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/building

Cross Aluminum Products, Inc.
1770 Mayflower Road
Niles, MI 49120

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 "FLT-400 (Thermally Broken)" Outswing Glazed Aluminum Door - L.M.I.

APPROVAL DOCUMENT: Drawing No. 1862, titled "FLT-400 Thermal Aluminum Glazed Impact Outswing Door", sheets 1 through 11 of 11, dated 04/11/13, with revision B1 dated 10/13/22, prepared by W. W. Schaefer Engineering & Consulting, P.A., 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

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 23-0713.12 and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4 as well as approval document mentioned above.

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



NOA No. 26-0625.12
Expiration Date: September 26, 2028
Approval Date: July 18, 2026
Page 1

Cross Aluminum Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA's No. 14-0428.01 and 13-0624.05)
2. Drawing No. **1862**, titled "FLT-400 Thermal Aluminum Glazed Impact Out-swing Door", sheets 1 through 11 of 11, dated 04/11/13, with revision **B1** dated 10/13/22, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
(Submitted under NOA No. 22-1027.07)

B. TESTS

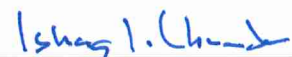
1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum outswing glazed/opaque entrance door, prepared by Architectural Testing, Inc. Test Report No. **C7190.01-602-18**, dated 06/03/13, signed and sealed by Shawn G. Collins, P.E.
Note: Clarification letter of SVR panic engagement, dated 08/28/13, issued by Architectural Testing, Inc., signed by John Bordagaray, Director, ATI.
(Submitted under NOA's No. 14-0428.01 and 13-0624.05)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)**, dated 12/14/17, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
(Submitted under NOA No. 18-0110.07)
2. Glazing complies with **ASTM E1300-02 & 04**

D. QUALITY ASSURANCE

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



Ishaq I. Chanda, P.E.

Product Control Unit Supervisor

NOA No. 26-0625.12

Expiration Date: September 26, 2028

Approval Date: July 18, 2026

Cross Aluminum Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **20-0622.02** issued to **Eastman Chemical Company (MA)** for their "**Saflex HP Clear or Color Glass Interlayers**" dated 08/06/20, expiring on 04/14/23.
2. Notice of Acceptance No. **16-1129.05** issued to Dyplast Products, LLC, (Former Apache Product Co.) for "E and R Board Expanded Polystyrene Rigid Foam Insulation ", expiring on 01/11/22.
3. Test report # 61261.01-106-18 dated 01/04/06, issued by Architectural Testing, Inc. for Polyamide I-strut per ASTM D-2843 and ASTM D635, issued to Technoform Group.
4. Tensile test report # ETC-07-1043-2008.0 dated 09/18/07, issued by ETC Laboratories for Strut material, issued to Technoform Group

F. STATEMENTS

1. Statement letter dated October 13, 2022, NOA drawings and testing have been reviewed to the current **FBC 7th Edition (2020)** and found compliant and that no change to existing NOA documents are required for renewal, prepared by W. W. Schaefer Engineering & Consulting, P.A. and signed by Warren W. Schaefer, P.E. *(Submitted under NOA No. 22-1027.07)*
2. Statement letter dated October 11, 2022, requesting renewal with no change, issued by Cross-Aluminum Products, Inc., signed by Joshua Leets, Plant Engineer. *(Submitted under NOA No. 22-1027.07)*
3. Lab. compliance as part of the above referenced test report. *(Submitted under NOA's No. 14-0428.01 and 13-0624.05)*

G. OTHERS

1. Notice of Acceptance No. **20-0623.15**, issued to Cross Aluminum Products, Inc., for their Series FLT400 Aluminum Outswing Glazed Door (Thermally Broken) – L.M.I., approved on 09/03/20 and expiring on 09/26/23.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 26-0625.12

Expiration Date: September 26, 2028
Approval Date: July 18, 2026

Cross Aluminum Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED under previous approval

A. DRAWINGS

1. None.

B. TESTS

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. **22-1130.04** issued to **Eastman Chemical Company (MA)** for their "**Saflex HP Clear or Color Glass Interlayers**" dated 01/26/23, expiring on 04/14/28.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)** and with **FBC 7th Edition (2020)**, dated July 1, 2023, issued by W. W. Schaefer Engineering & Consulting, P.A. and signed and sealed by Warren W. Schaefer, P.E.

G. OTHERS

1. Notice of Acceptance No. **22-1027.07**, issued to Cross Aluminum Products, Inc., for their Series FLT-400 Aluminum Outswing Glazed Door (Thermally Broken) – L.M.I., approved on 11/23/22 and expiring on 09/26/28.



Ishaq I. Chanda, P.E.

Product Control Unit Supervisor

NOA No. 26-0625.12

Expiration Date: September 26, 2028

Approval Date: July 18, 2026

Cross Aluminum Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **1862**, titled "FLT-400 Thermal Aluminum Glazed Impact Outswing Door", sheets 1 through 11 of 11, dated 04/11/13, with revision **B1** dated 10/13/22, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

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. **22-1130.04** issued to **Eastman Chemical Company (MA)** for their "**Saflex HP Clear or Color Glass Interlayers**", expiring on 04/14/28.

F. STATEMENTS

1. Statement letter of conformance dated JUL 01, 2026, complying with **FBC 9th Edition (2026)**, including special limitation note that anchors in saltwater environment must meet corrosion resistance requirements of FBC chapter 17 and with **FBC 8th Edition (2023)**, issued by W. W. Schaefer Engineering & Consulting, P.A. and signed and sealed by Warren W. Schaefer, P.E.

G. OTHERS

1. *This NOA revises NOA No. 23-0713.14*, expiring on 09/26/28.



Ishaq I. Chanda, P.E.

Product Control Unit Supervisor

NOA No. 26-0625.12

Expiration Date: September 26, 2028

Approval Date: July 18, 2026

The following pages in this document were submitted by the manufacturer (third party) to represent the product being approved and establish the limits of use. The pages may include technical drawings, schematics and installation details.

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 $K_d = 0.85$ 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 $C_d = 1.6$ 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.

LOCK OPTION REQUIREMENTS

PANEL TYPE	HARDWARE REQUIRED
DOOR WITH LOCK OPTION 1	
ACTIVE PANEL	3-POINT PANIC LOCK DEVICE (ITEM 31)
INACTIVE PANEL	3-POINT PANIC LOCK DEVICE (ITEM 31)
DOOR WITH LOCK OPTION 2	
ACTIVE PANEL	DEAD BOLT (ITEM 35)
	PASSAGE LOCK (ITEM 36)
	TOP & BOTTOM SURFACE BOLTS (ITEM 33)
INACTIVE PANEL	TOP & BOTTOM SURFACE BOLTS (ITEM 33)
	TOP & BOTTOM FLUSH BOLTS (ITEM 34)
DOOR WITH LOCK OPTION 3	
ACTIVE PANEL	2-POINT PANIC LOCK DEVICE (ITEM 37)
	TOP & BOTTOM SURFACE BOLTS (ITEM 33)
INACTIVE PANEL	TOP & BOTTOM SURFACE BOLTS (ITEM 33)

NOTES:

1. SEE PARTS LIST ON SHEET 11 FOR DESCRIPTION OF LOCK ITEMS.
2. ALL MANUAL FLUSH &/OR SURFACE LOCK BOLTS SHALL BE ENGAGED UPON A BUILDING LOCK-DOWN &/OR IN THE EVENT OF A SEVERE STORM THREAT

ALLOWABLE DESIGN SIZE/PRESSURE TABLE

MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (IN.)	ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
DOUBLE DOOR			
91 1/2	97 3/8	60.0	60.0
81 3/8	97 3/8	(1) 67.5	(1) 67.5
73 1/4	97 3/8	(1) 75.0	(1) 75.0
SINGLE DOOR			
47 5/8	97 3/8	60.0	60.0
42 3/8	97 3/8	(1) 67.5	(1) 67.5
38 1/8	97 3/8	(1) 75.0	(1) 75.0

(1) PRESSURES HIGHER THAN ± 60 PSF ARE ONLY APPLICABLE WHEN LOCK OPTION 2 &/OR 3 IS USED. WHEN LOCK OPTION 1 IS USED, ALLOWABLE PRESSURE MAY NOT EXCEED ± 60 PSF REGARDLESS OF DOOR SIZE.

HINGE NOTE

HINGES ARE NOT SHOWN IN THE ELEVATION VIEWS DUE TO THE CHOICE OF THEM BEING CONTINUOUS OR INDIVIDUAL BUTT HINGES. WHEN BUTT HINGES ARE USED, THERE SHALL BE A TOTAL OF 4 WITH EACH DOOR PANEL POSITIONED 7 5/8" FROM BOTH TOP & BOTTOM TO HINGE CENTERLINE & EQUALLY SPACE BETWEEN. SEE APPLICABLE SECTIONS & PARTS LIST FOR ALL HINGE DETAIL.

NOTE: THESE DOOR UNITS ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. 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.

FRAME CORNER CONSTRUCTION:

FRAME HEAD: VERTICAL MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED AND MECHANICALLY FASTENED WITH (3) NO. 10 X 1" PHIT THROUGH THE VERTICAL MEMBER INTO THE HORIZONTAL MEMBERS SCREW SPLINES. CORNERS ARE SEALED WITH SILICONE SEALANT.
SILL: VERTICAL MEMBERS RUN THROUGH WHILE THE THRESHOLD IS SQUARE CUT, BUTTED AND SEALED WITH SILICONE SEALANT.

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME & MULLION PLATE TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
PRIMARY FRAME SCREWS			
(3) MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 2 & $G=0.55$)	NO. 20 SMS OR WOOD SCREW	1 1/2"	1"
MIN. 16 GA. 50 KSI METAL STUD	5/16" GR. 5 SELF TAP/DRILL SCREW	FULL	5/8"
MIN. 1/8" THK A36 STEEL	5/16" GR. 5 SELF TAP/DRILL SCREW	FULL	5/8"
MIN. 0.100" THK 6063-T5 ALUM.	5/16" GR. 5 SELF TAP/DRILL SCREW	FULL	5/8"
(4) MIN. C-90 CONCRETE FILLED BLOCK	(2) 5/16" CONCRETE SCREW	1 1/2"	2"
MIN. 2500 PSI CONCRETE	(2) 5/16" CONCRETE SCREW	1 3/4"	2"
SILL SCREWS (PRIMARY & SECONDARY) & SECONDARY FRAME SCREWS			
(3) MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 2 & $G=0.55$)	NO. 14 SMS OR WOOD SCREWS	1 1/2"	3/4" AT SIDES; 1" AT SILL
MIN. 16 GA. 50 KSI METAL STUD	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 0.100" THK 6063-T5 ALUM.	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
(4) MIN. C-90 CONCRETE FILLED BLOCK	(1) 1/4" CONCRETE SCREW	1 1/2"	2"
MIN. 3000 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2"
MULLION END PLATE ANCHORS			
MIN. 2500 PSI CONCRETE	(5) EXPANSION ANCHOR WITH 5/16-18 X 1 3/4" MACHINE SCREW	FULL (1 5/8")	2 1/2"

- (1) 1/4" 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) 5/16" CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.)
- (3) 2X6 BUCKS SHALL BE OF A MINIMUM DEPTH REQUIRED TO MEET ANCHOR EDGE DISTANCE REQUIREMENTS BUT NO LESS THAN 4 1/4".
- (4) CONCRETE FILLED BLOCK SUBSTRATE IS NOT APPLICABLE AT HEAD AND SILL
- (5) EXPANSION ANCHORS SHALL BE POWERS SINGLE SHELL EXPANSION ANCHOR.

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.

DRAWN BY:	W.R.M.	CHECKED BY:	W.W.S.
PLAT:	1=16	DATE:	04/11/13
DATE:	12/14/17	DATE:	10/13/22
BY:	W.W.S.	BY:	W.W.S.
REVISION DESCRIPTION	W.W.S.	REVISION DESCRIPTION	W.W.S.
NO. 1	UPDATE TO CURRENT STANDARDS	NO. 1	UPDATE ENGINEER'S ADDRESS
AT		BT	

DRAWING TITLE
FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR

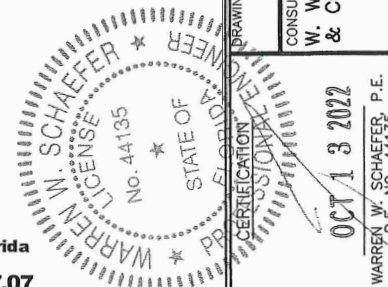
MANUFACTURER
CROSS ALUMINUM PRODUCTS, INC.
1770 MAYFLOWER RD.
NILES, MI 49120
800-806-3667

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
26376 MADIR ROAD, UNIT 309
PLANTA CORONA, FL 33983
PHONE: 561-744-3424

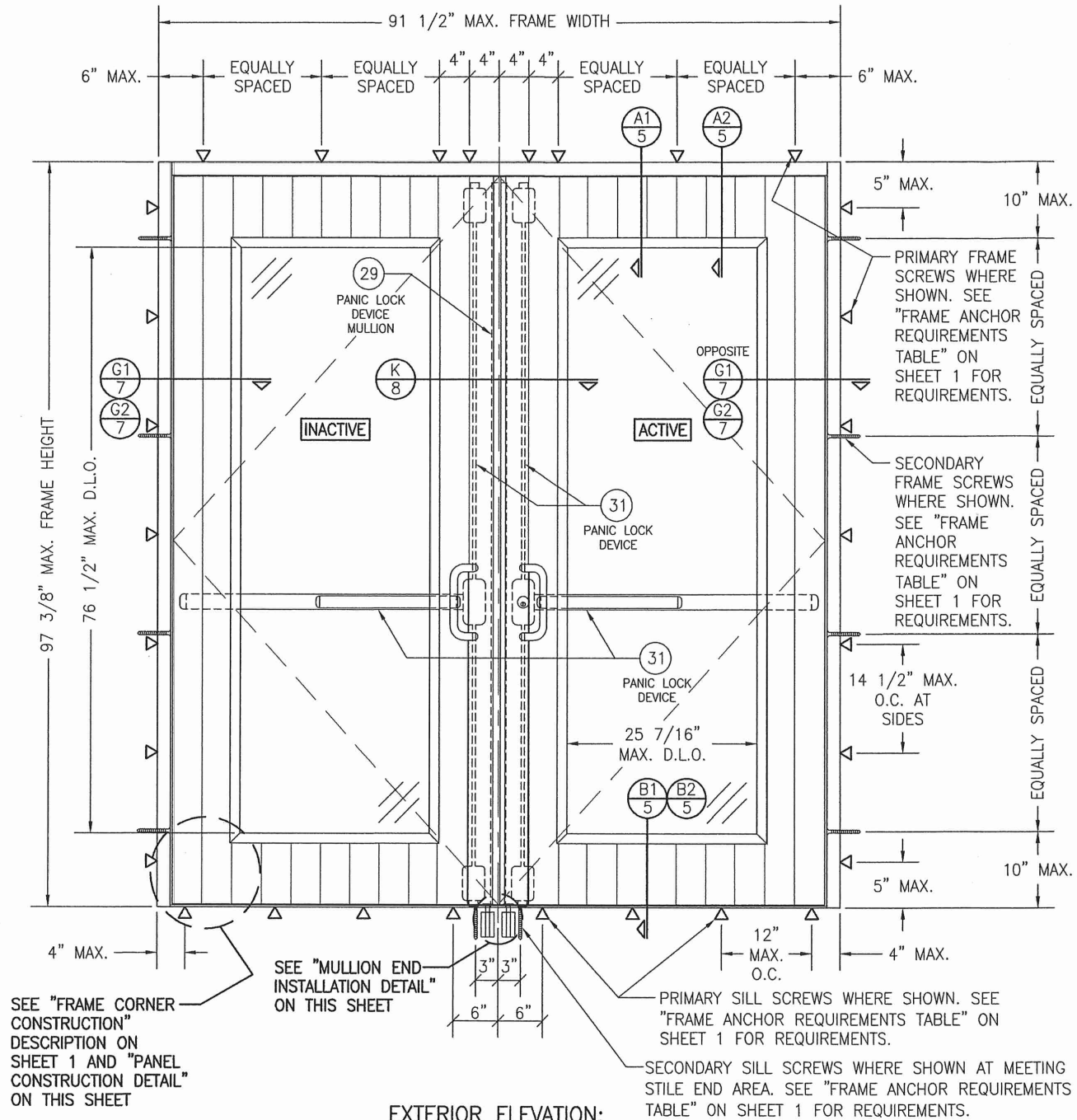
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 26-0625-12
Expiration Date 9/26/2028
By: *Manuel Perra*
Miami Dade Product Control

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. 23-0713.14
Expiration Date: 09/26/2028
By: *Manuel Perra*
Miami Dade Product Control

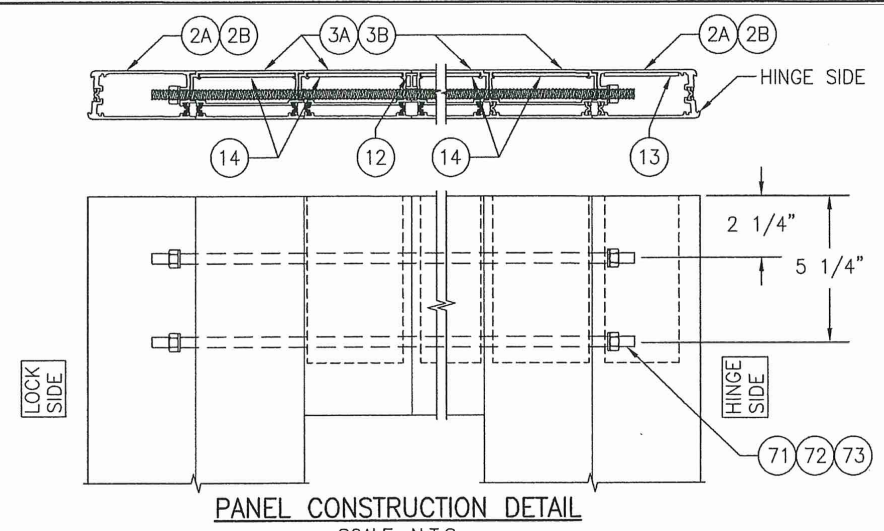
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 22-1027.07
Expiration Date: 09/26/2028
By: *Manuel Perra*
Miami Dade Product Control



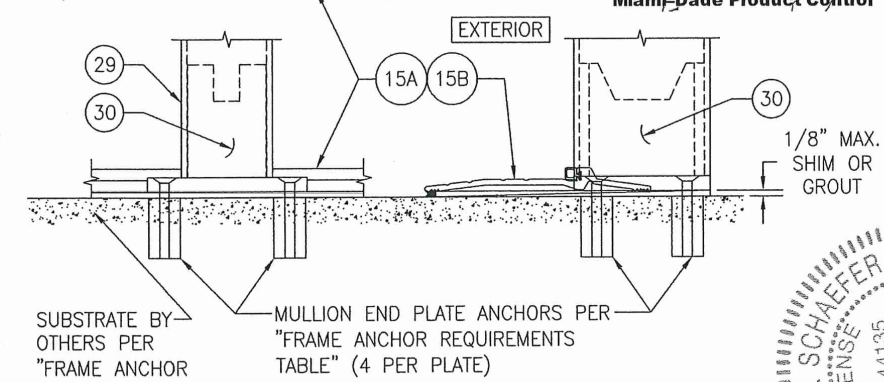
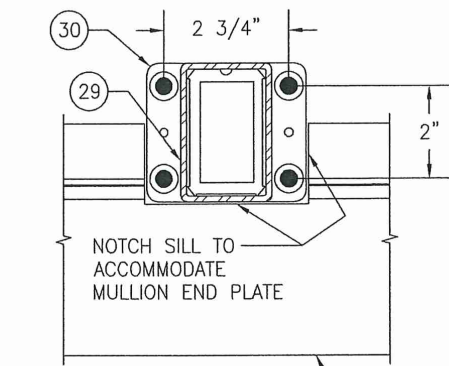
DRAWING NO.	REV.
1862	B
SHEET NO.	1 OF 11



**EXTERIOR ELEVATION:
DOUBLE DOOR WITH LOCK HARDWARE OPTION 1**
SCALE: 3/4" = 1'-0"
(SEE TABLE ON SHEET 1 FOR LOCK OPTION REQUIREMENTS)
NOTE: SINGLE DOOR IS NOTE APPLICABLE WITH LOCK OPTION 1



PANEL CONSTRUCTION DETAIL
SCALE: N.T.S.
(TOP OF PANEL SHOWN. BOTTOM OF PANEL IS CONSTRUCTED THE SAME)



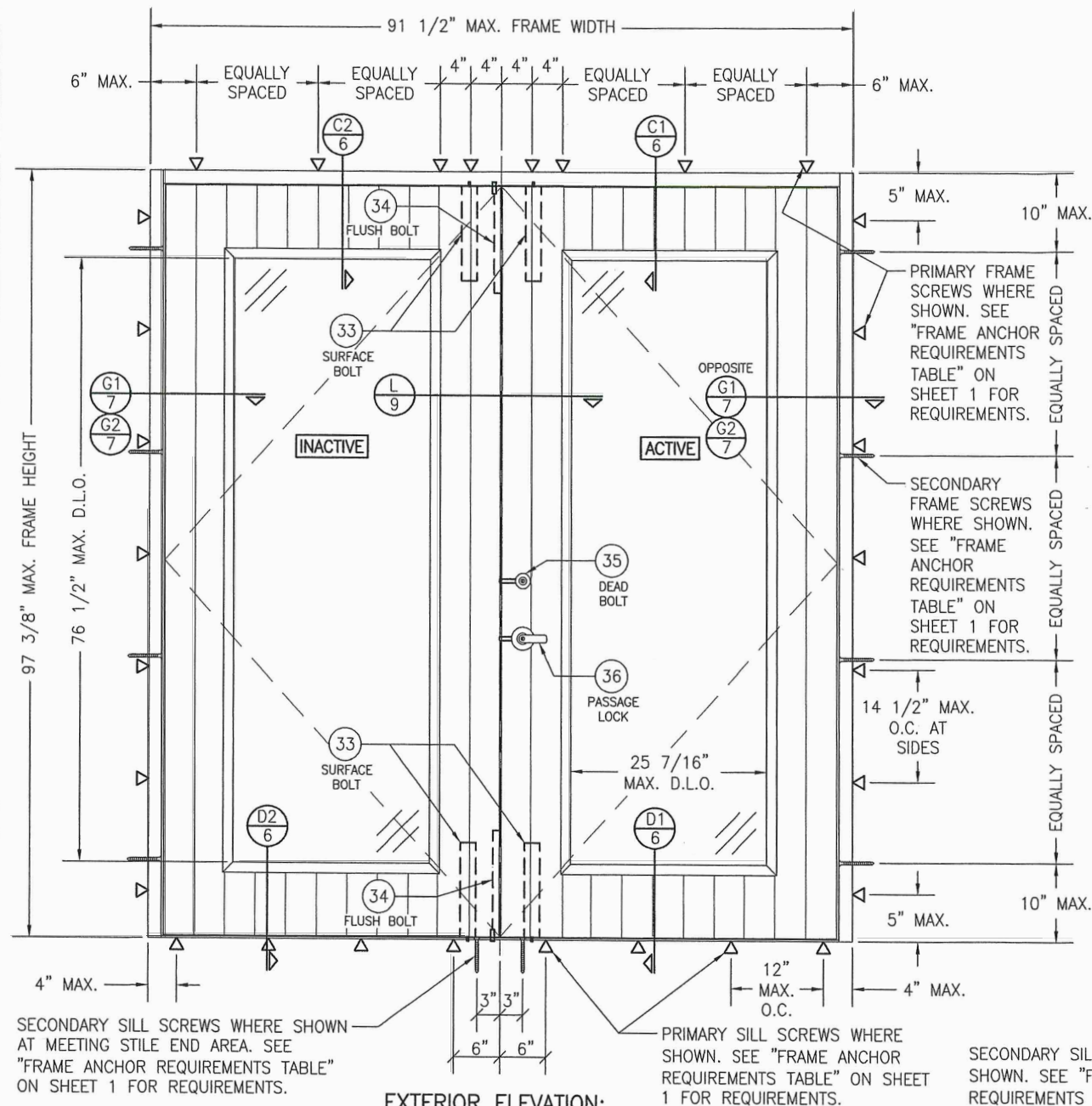
MULLION END INSTALLATION DETAIL
SCALE: N.T.S.
(DOOR PANEL NOT SHOWN FOR CLARITY)
(FOR SILL SCREWS NOT SHOWN. SEE SECTION B1/5)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 26-0625-12
Expiration Date 9/26/2028
By 156-g1.1.1.1-2
Miami Dade Product Control

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. 23-0713.14
Expiration Date: 09/26/2028
By: Manuel Ferrer
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 22-1027.07
Expiration Date: 09/26/2028
By: Manuel Ferrer
Miami Dade Product Control

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 04/11/13
DATE	BY
REVISION DESCRIPTION	
NO.	
FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR MANUFACTURER: CROSS ALUMINUM PRODUCTS, INC. 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 26376 NADIR ROAD, UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424	
CERTIFICATION STATE OF FLORIDA PROFESSIONAL ENGINEER WARREN W. SCHAEFER P.E. NO. 44135	
DRAWING NO. 1862	REV. B
SHEET NO. 2 OF 11	



EXTERIOR ELEVATION:

DOUBLE DOOR WITH LOCK HARDWARE OPTION 2

SCALE: 3/4" = 1'-0"

PRODUCT REVISED
As complying with the Florida
Building Code

NOA-No. **23-0713.14**

Expiration Date: **09/26/2028**

By: *Manuel Perez*
Miami-Dade Product Control

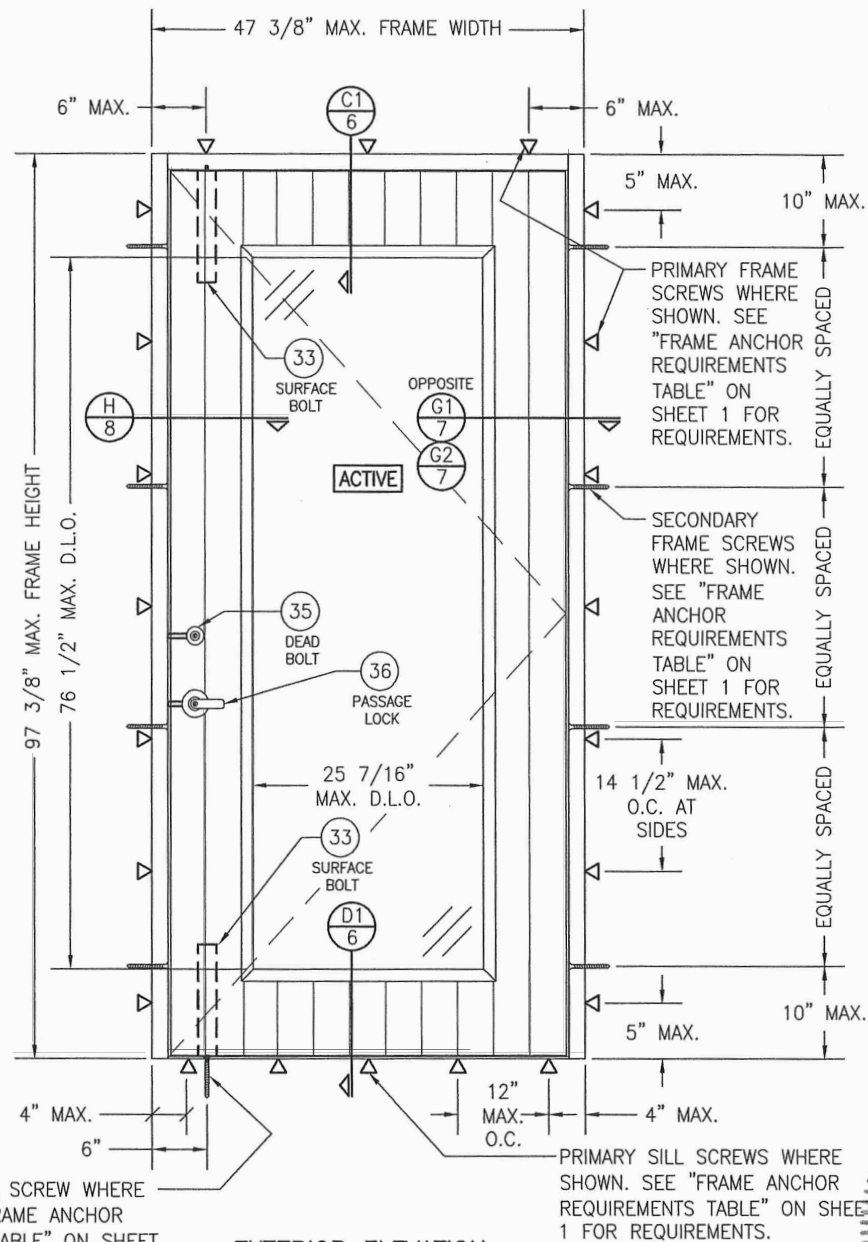
(SEE TABLE ON SHEET 1 FOR LOCK OPTION REQUIREMENTS)

PRODUCT REVISED
as complying with the Florida
Building Code

NOA-No. **22-1027.07**

Expiration Date: **09/26/2028**

By: *Manuel Perez*
Miami-Dade Product Control



EXTERIOR ELEVATION:

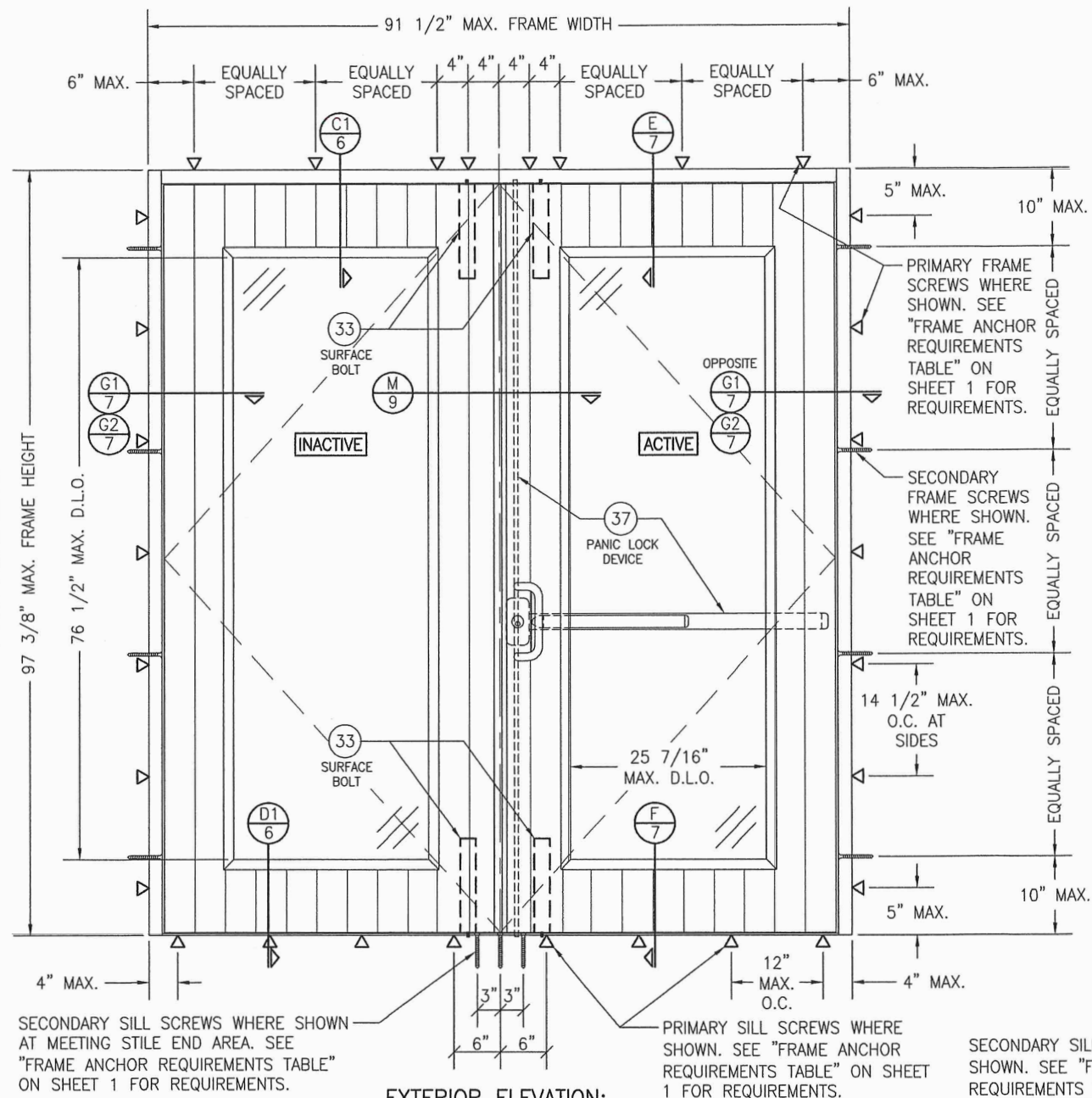
SINGLE DOOR WITH LOCK HARDWARE OPTION 2

SCALE: 3/4" = 1'-0"

(SEE TABLE ON SHEET 1 FOR LOCK OPTION REQUIREMENTS)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **26-0625.12**
Expiration Date: **9/26/2028**
By: *Ishag I. Khan*
Miami-Dade Product Control

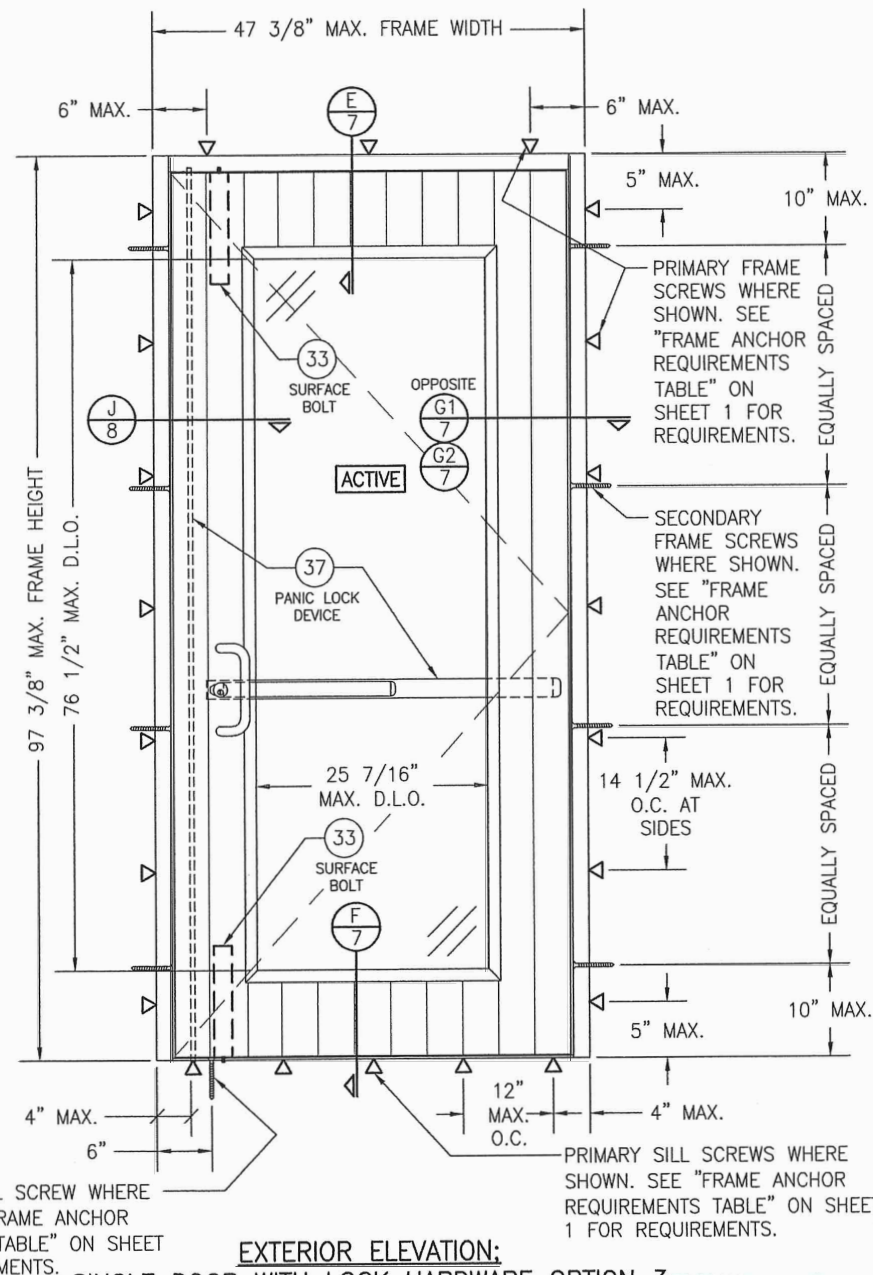
DRAWN BY:	CHECKED BY:
W.R.M.	W.W.S.
PLOT:	DATE:
1=16	04/11/13
DATE	BY
REVISION DESCRIPTION	NO.
NO.	
DRAWING TITLE	
FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR	
CONSULTANTS	MANUFACTURER
W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)	CROSS ALUMINUM PRODUCTS, INC.
26376 NADR ROAD, UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424	1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667
CERTIFICATION	DATE
NO. 44135	09/26/2028
DRAWING NO.	REV.
1862	B
SHEET NO.	
3	OF 11



EXTERIOR ELEVATION:

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **23-0713.14** (SEE TABLE ON SHEET 1 FOR LOCK OPTION REQUIREMENTS)
Expiration Date: **09/26/2028**
By: *Manuel Perez*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. **22-1027.07**
Expiration Date: **09/26/2028**
By: *Manuel Perez*
Miami-Dade Product Control



EXTERIOR ELEVATION:

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. **24-0625.12**
Expiration Date: **9/26/2028**
By: *Isang J. Cho*
Miami-Dade Product Control

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 04/11/13
NO.	DATE
BY	DATE
REVISION DESCRIPTION	DATE
NO.	DATE
FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR MANUFACTURER CROSS ALUMINUM PRODUCTS, INC. 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667	
CONSULTANTS W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 26376 NADIR ROAD, UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424	
DRAWING TITLE FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR NO. 44135 OCT 13 2022 W. SCHAEFER P.E. NO. 44135	
DRAWING NO. 1862	REV. B
SHEET NO. 4 OF 11	

SUBSTRATE BY OTHERS PER "FRAME ANCHOR REQUIREMENTS TABLE"

PRIMARY FRAME SCREW PER ELEVATION

1/4" MAX. SHIM AT EACH ANCHOR

SEALANT BY OTHERS

SILICONE SEALANT

8" MIN.

EXTERIOR

SEE GLAZING DETAILS ON THIS SHEET

SECTION A1

SCALE: 1/2 FULL

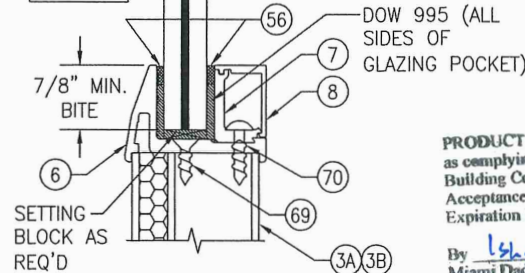
(SECTION SHOWING MULLION DETAIL)

EXTERIOR

SECTION A2

SCALE: 1/2 FULL
(SECTION SHOWING LOCK DETAIL)
(FOR INSTALLATION AND DETAIL NOT SHOWN, SEE SECTION A1/5)

EXTERIOR

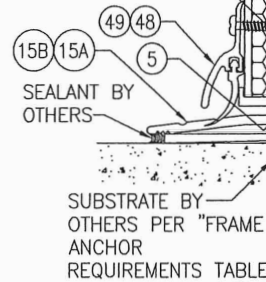


TYPICAL GLAZING DETAIL
AT TOP & BOTTOM

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 26-0625-12
Expiration Date 04/26/2028
By: Warren W. Schaefer, P.E.
Miami-Dade Product Control

SEE GLAZING
DETAILS ON
THIS SHEET

EXTERIOR



TYPICAL GLAZING DETAIL
AT SIDES

SECTION B1

SCALE: 1/2 FULL

SEE "MULLION END
INSTALLATION DETAIL"
ON SHEET 2 FOR
MULLION REQUIREMENTS

SUBSTRATE BY
OTHERS PER "FRAME
ANCHOR
REQUIREMENTS TABLE"

PRIMARY SILL
SCREW PER
ELEVATION

SECONDARY SILL
SCREW PER ELEVATION

8" MIN.

FRAME HEIGHT

EXTERIOR

SECTION B2

SCALE: 1/2 FULL
(FOR INSTALLATION AND DETAIL
NOT SHOWN, SEE SECTION B1/5)

PRODUCT REVISED
As complying with the Florida
Building Code

NOA-No. 23-0713.14

Expiration Date: 09/26/2028

By: Manuel Perez
Miami-Dade Product Control

9/16" LAMINATED GLASS
(1/4" HT. ST./0.10 EASTMAN CHEMICAL CO.
SAFLEX HP/1/4" HT ST.)

PRODUCT REVISED
as complying with the Florida
Building Code

NOA-No. 22-1027.07

Expiration Date: 09/26/2028

By: Manuel Perez
Miami-Dade Product Control

EXTERIOR

7/8" MIN.
BITE

DOW 995
(ALL SIDES
OF GLAZING
POCKET)

DRAWN BY: W.R.M. CHECKED BY: W.W.S.
PLOT: 1=2 DATE: 04/11/13

NO.	REVISION DESCRIPTION	DATE	BY

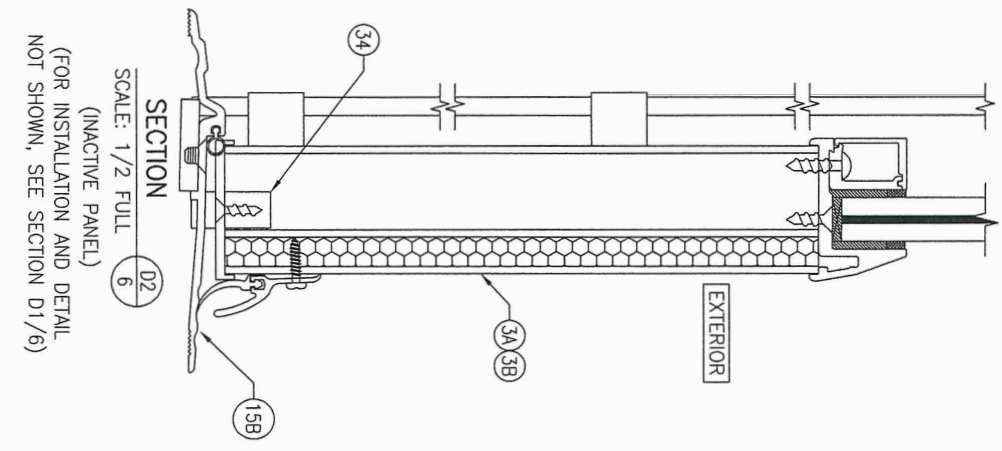
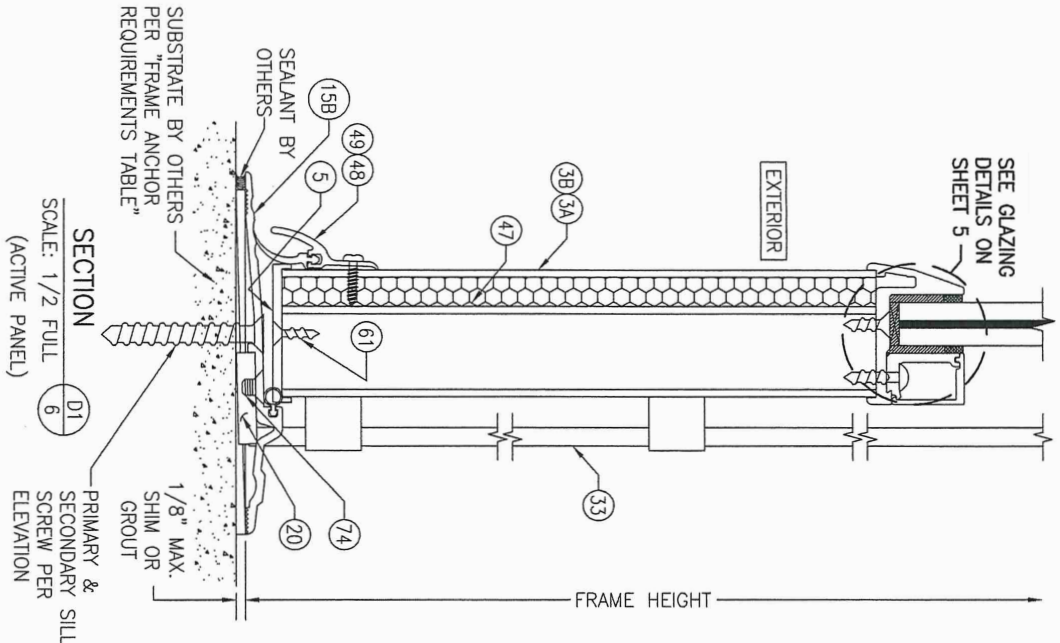
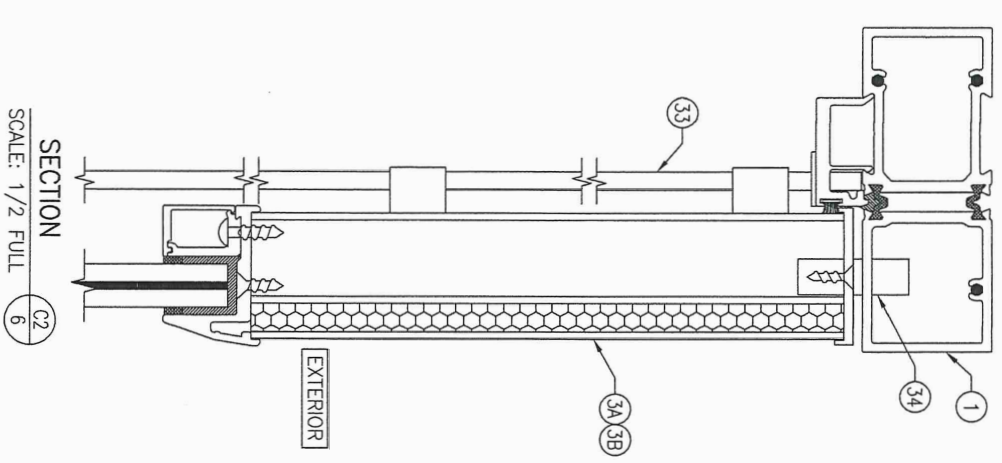
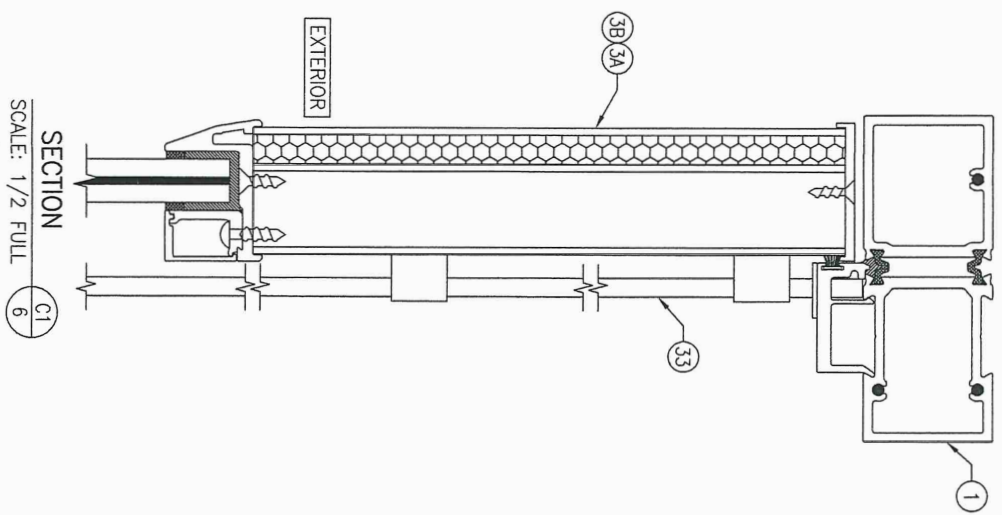
FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR

CROSS ALUMINUM PRODUCTS, INC.
1770 MAYFLOWER RD.
NILES, MI 49120
800-806-3667

CONSULTANTS
W. W. SCHAEFER, ENGINEERING
& CONSULTING, P.A. (CA 6809)
26376 NADIR ROAD, UNIT 309
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

WARREN W. SCHAEFER, P.E.
No. 44135
PROFESSIONAL ENGINEER
FLORIDA
EXPIRATION DATE 09/26/2022

DRAWING NO. 1862
SHEET NO. 5 OF 11
REV. B



(FOR INSTALLATION AND DETAIL
NOT SHOWN, SEE SECTION A1/5)

(FOR INSTALLATION AND DETAIL
NOT SHOWN, SEE SECTION A1/5)

SEE GLAZING
DETAILS ON
SHEET 5

FRAME HEIGHT

(FOR INSTALLATION AND DETAIL
NOT SHOWN, SEE SECTION D1/6)

SCALE: 1/2 FULL
(ACTIVE PANEL)

SCALE: 1/2 FULL
(INACTIVE PANEL)

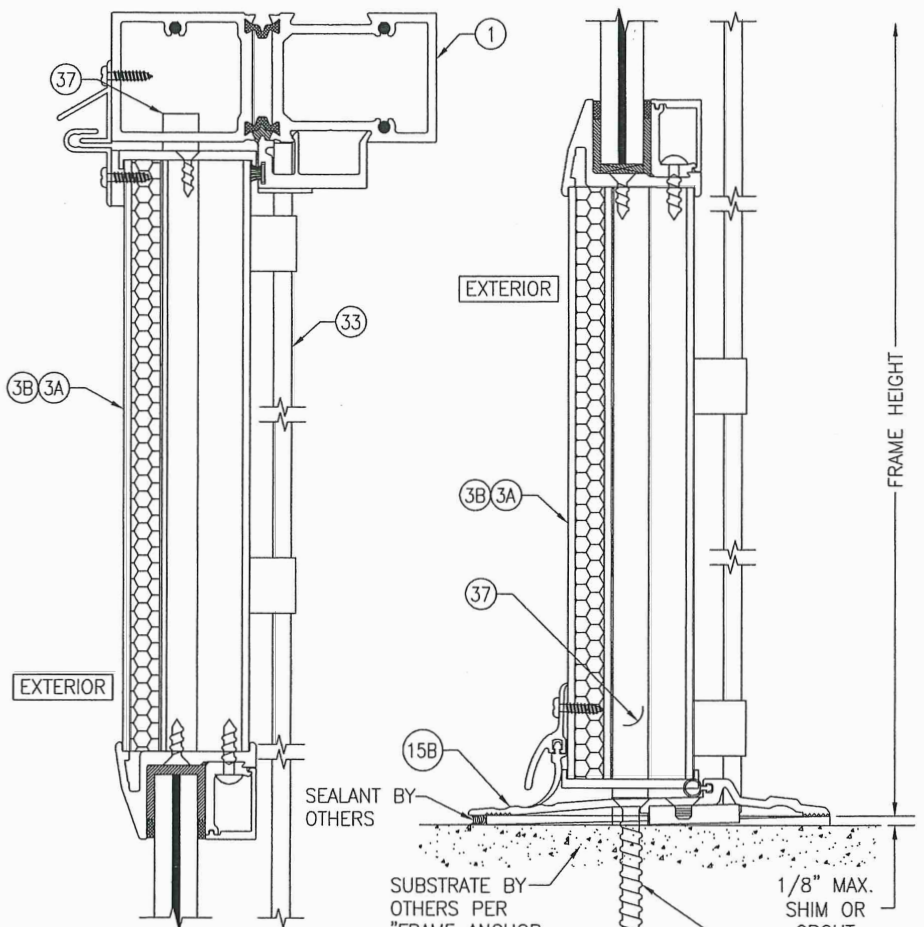
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 26-0625-12
Expiration Date 9/26/2028
By: [Signature]
Miami-Dade Product Control

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. 23-0713.14
Expiration Date: 09/26/2028
By: [Signature]
Miami-Dade Product Control

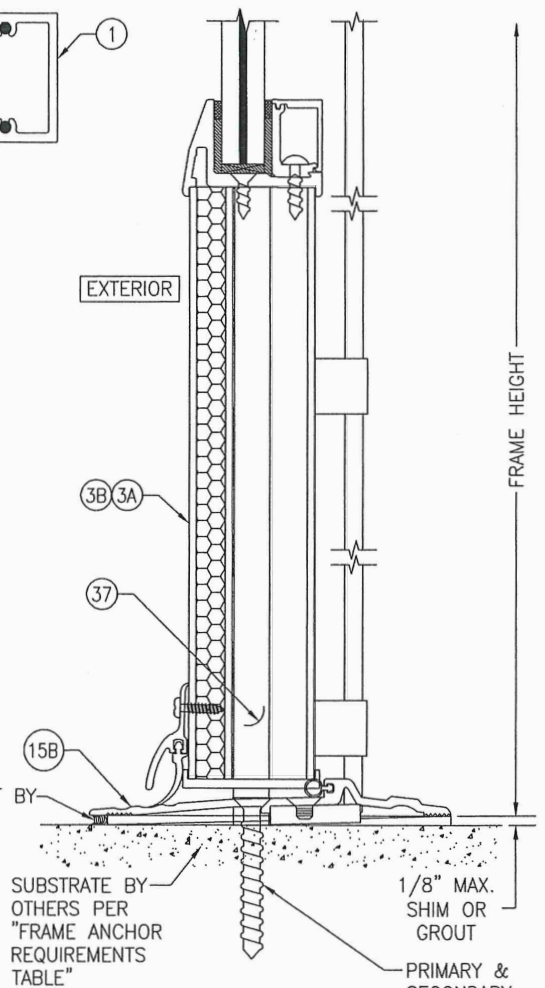
PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. 22-1027.07
Expiration Date: 09/26/2028
By: [Signature]
Miami-Dade Product Control



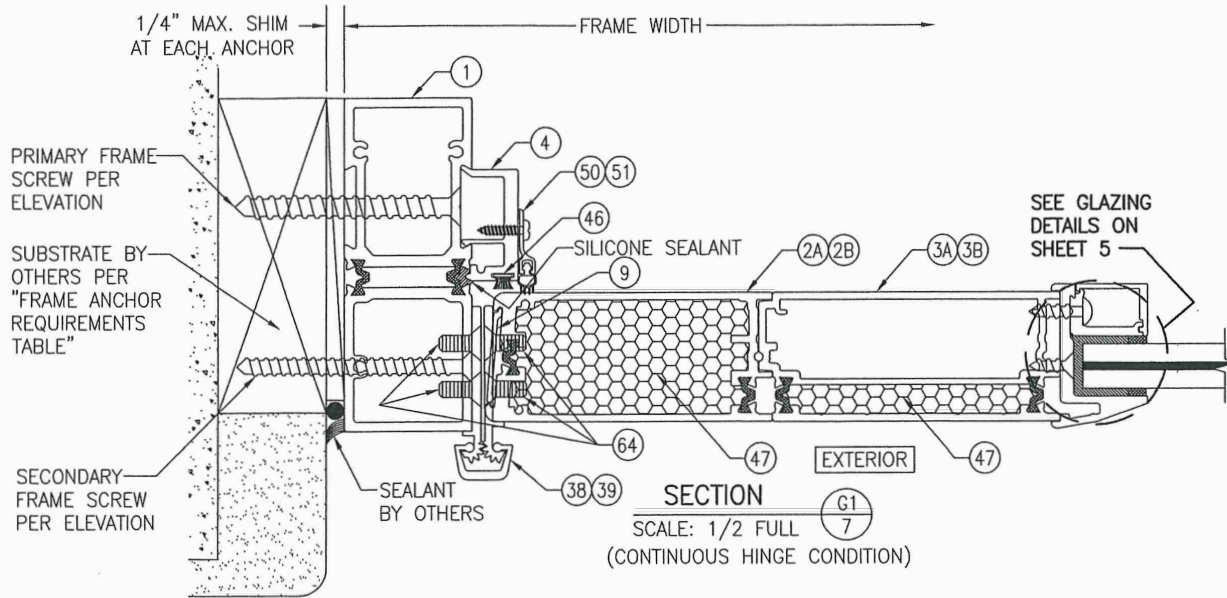
DRAWING TITLE				DRAWING NO.			
FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR				1862			
CONSULTANTS				SHEET NO.			
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)				6 OF 11			
MANUFACTURER				REV.			
CROSS ALUMINUM PRODUCTS, INC.				B			
1770 MAYFLOWER RD.				WARREN W. SCHAEFER, P.E.			
NILES, MI 49120				P.E. NO. 44135			
800-806-3667							



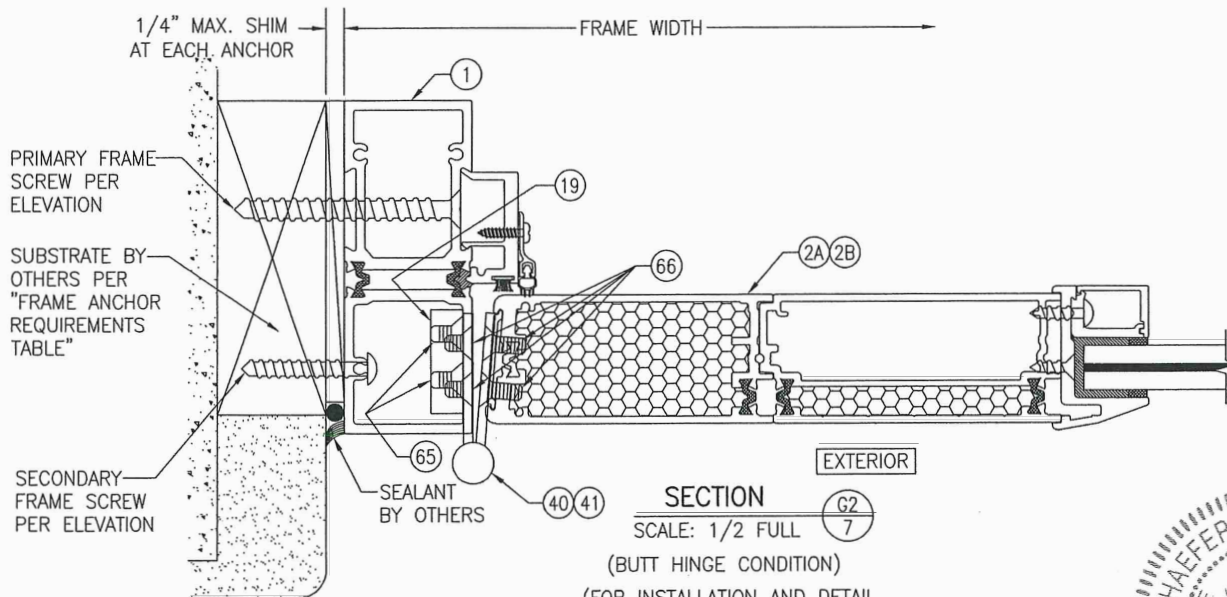
SECTION E
SCALE: 1/2 FULL
(FOR INSTALLATION AND DETAIL NOT SHOWN, SEE SECTION A1/5)



SECTION F
SCALE: 1/2 FULL
(FOR DETAIL NOT SHOWN, SEE SECTION D1/6)



SECTION G1
SCALE: 1/2 FULL
(CONTINUOUS HINGE CONDITION)



SECTION G2
SCALE: 1/2 FULL
(BUTT HINGE CONDITION)
(FOR INSTALLATION AND DETAIL NOT SHOWN, SEE SECTION G1/7)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 26-0625.12
Expiration Date 9/26/2028
By: Shay L. Chinn
Miami-Dade Product Control

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. 23-0713.14
Expiration Date: 09/26/2028
By: Manuel Ferr
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 22-1027.07
Expiration Date: 09/26/2028
By: Manuel Ferr
Miami-Dade Product Control

DRAWN BY:	W.R.M.	CHECKED BY:	W.W.S.
PLOT:	1=2	DATE:	04/11/13
DATE:			
BY:			
REVISION DESCRIPTION:			
NO.			

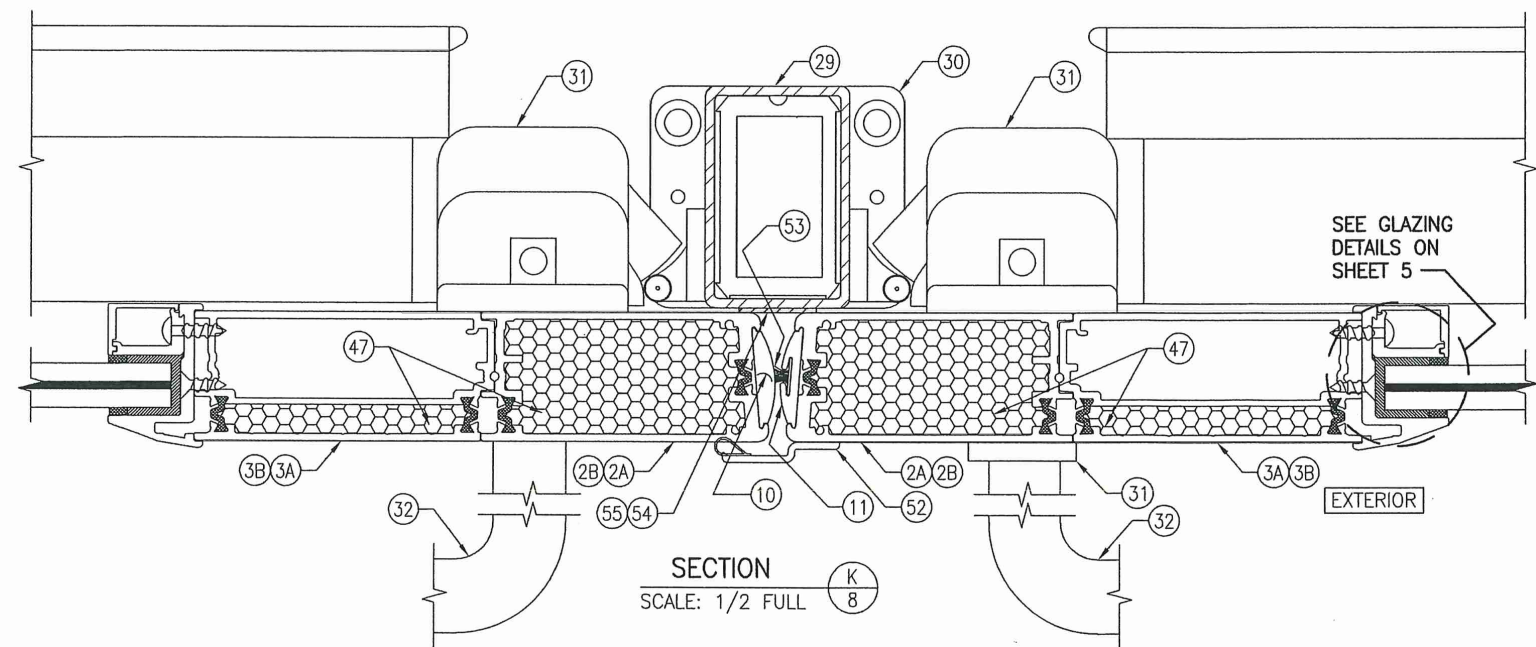
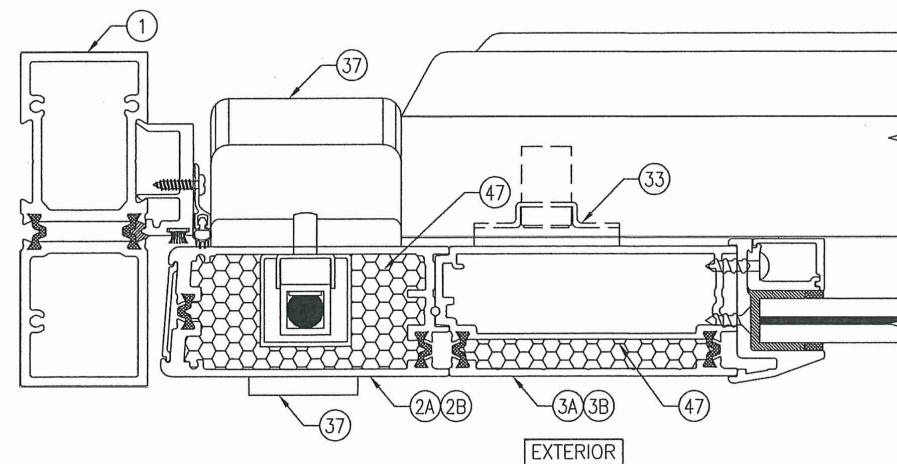
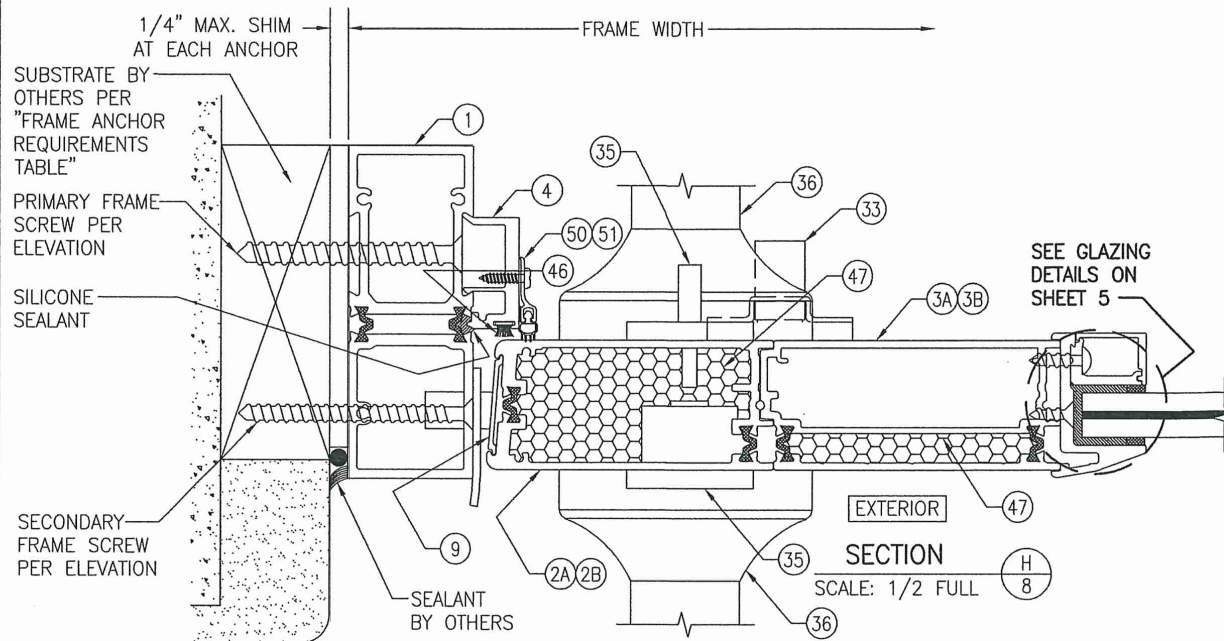
DRAWING TITLE
FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR

CONSULTANTS
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A. (CA 6809)
26376 NADIR ROAD, UNIT 309
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

MANUFACTURER
CROSS ALUMINUM PRODUCTS, INC.
1770 MAYFLOWER RD.
NILES, MI 49120
800-806-3667

CERTIFICATION
STATE OF FLORIDA
PROFESSIONAL SEAL
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO.	1862	REV.	B
SHEET NO.	7	OF	11

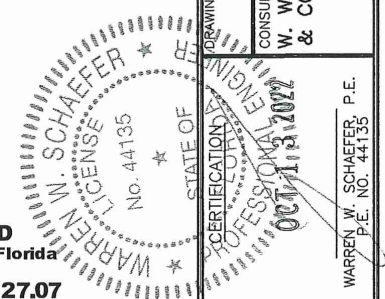


SECTION J
SCALE: 1/2 FULL
(FOR INSTALLATION AND DETAIL NOT SHOWN, SEE SECTION H/8)

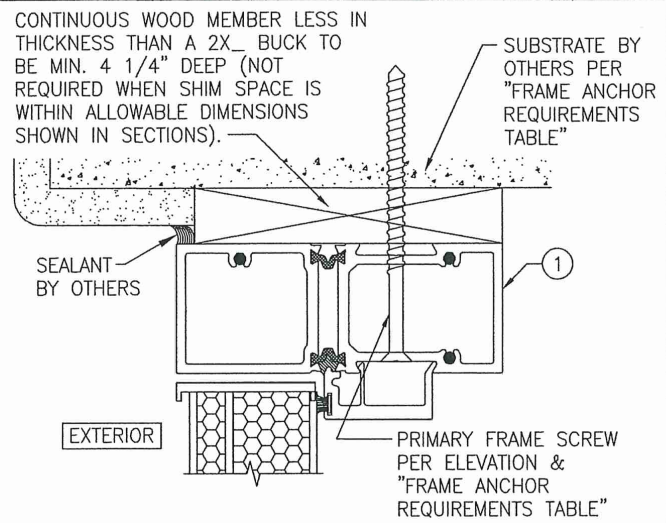
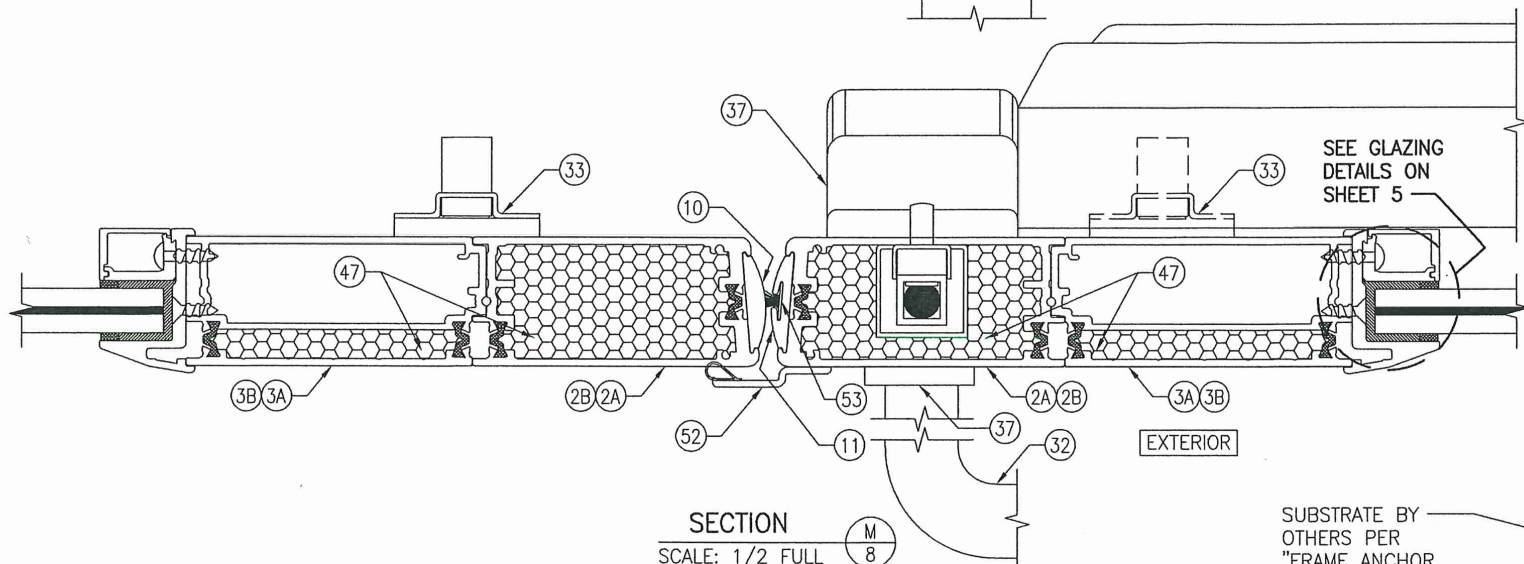
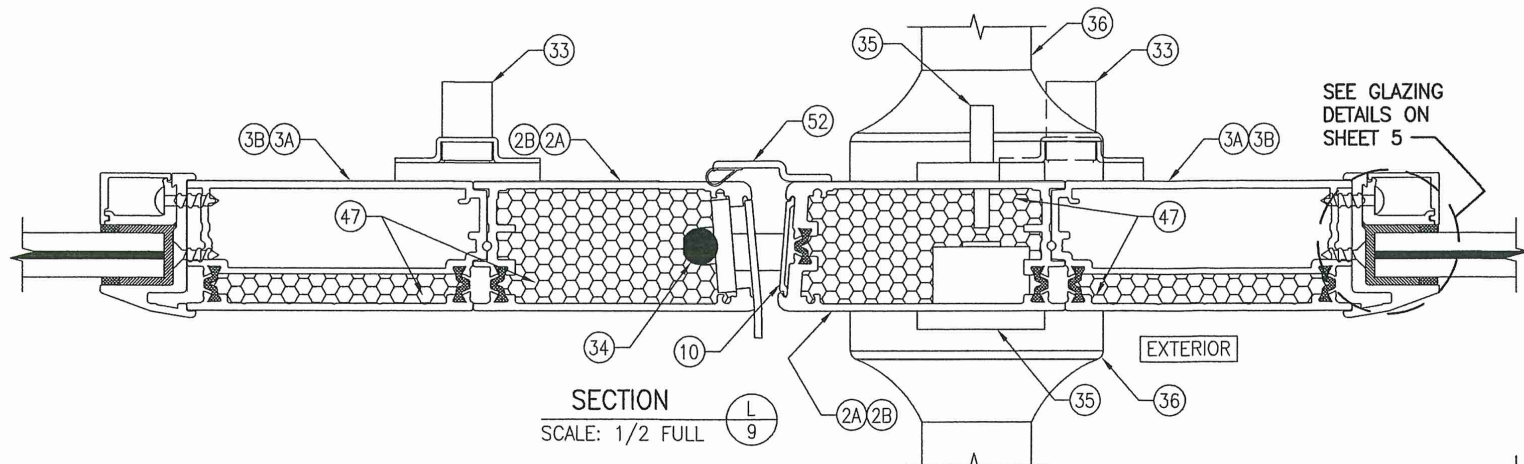
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 26-0625-12
Expiration Date 9/26/2028
By: *Isabel L. Lopez*
Miami-Dade Product Control

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. 23-0713.14
Expiration Date: 09/26/2028
By: *Manuel Ferraz*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 22-1027.07
Expiration Date: 09/26/2028
By: *Manuel Ferraz*
Miami-Dade Product Control



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 04/11/13
DATE	BY
REVISION DESCRIPTION	
NO.	
DRAWING TITLE FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR	
MANUFACTURER CROSS ALUMINUM PRODUCTS, INC. 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 26376 NADIR ROAD; UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424	
PROFESSIONAL ENGINEER WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1862	REV. B
SHEET NO. 8 OF 11	

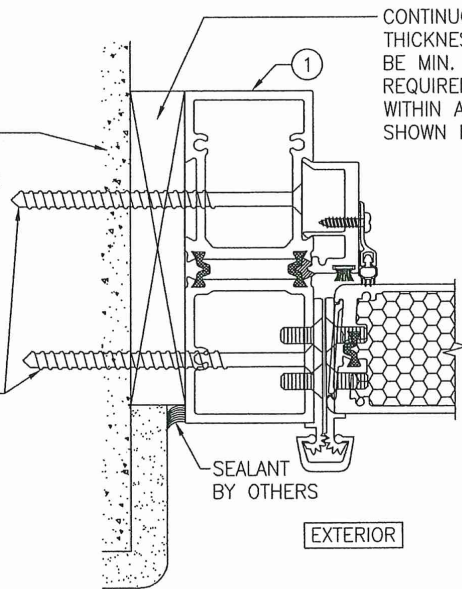


**OPTIONAL DIRECT MOUNT DETAIL
TO SUBSTRATE WITH SPACER AT HEAD**
(FOR DETAIL NOT SHOWN, SEE OTHER HEAD SECTIONS)

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **23-0713.14**
Expiration Date: **09/26/2028**
By: *Manuel Ferr*
Miami-Dade Product Control

CONTINUOUS WOOD MEMBER LESS IN
THICKNESS THAN A 2X BUCK TO
BE MIN. 4 1/4" DEEP (NOT
REQUIRED WHEN SHIM SPACE IS
WITHIN ALLOWABLE DIMENSIONS
SHOWN IN SECTIONS).

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **22-1027.07**
Expiration Date: **09/26/2028**
By: *Manuel Ferr*
Miami-Dade Product Control

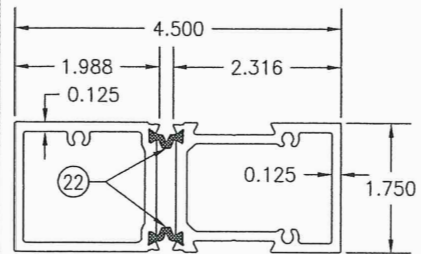


PRIMARY & SECONDARY
FRAME SCREWS PER
ELEVATION & "FRAME
ANCHOR REQUIREMENTS
TABLE"

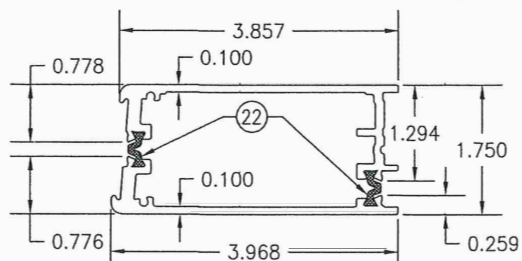
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **26-0625.12**
Expiration Date: **9/26/2028**
By: *Manuel Ferr*
Miami-Dade Product Control

**OPTIONAL DIRECT MOUNT DETAIL
TO SUBSTRATE WITH SPACER AT SIDES**
(FOR DETAIL NOT SHOWN, SEE OTHER SIDE SECTIONS)

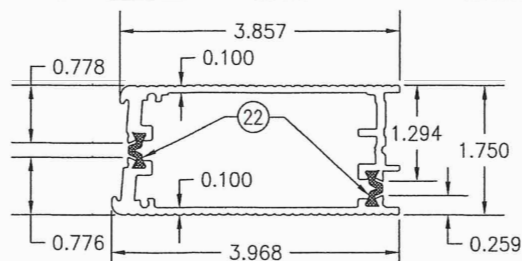
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 04/11/13
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR	
MANUFACTURER CROSS ALUMINUM PRODUCTS, INC. 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 26376 NADIR ROAD, UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424	
CERTIFICATION WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1862	REV. B
SHEET NO. 9 OF 11	



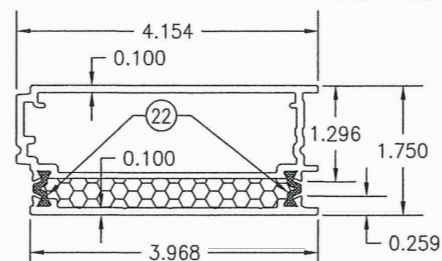
① HEAD & JAMB FRAME



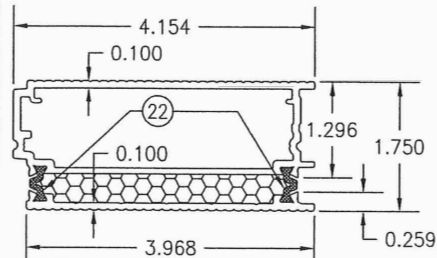
②A MEETING & HINGE
VERTICAL PANEL SLATS
(SMOOTH FINISH)



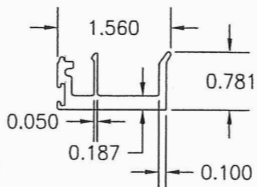
②B MEETING & HINGE
VERTICAL PANEL SLATS
(FLUTED FINISH)



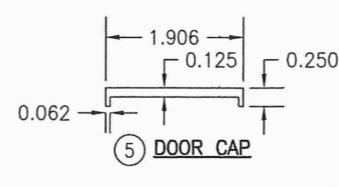
③A INTERMEDIATE VERTICAL
PANEL SLATS
(SMOOTH FINISH)



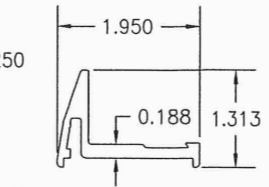
③B INTERMEDIATE VERTICAL
PANEL SLATS
(FLUTED FINISH)



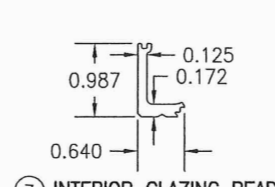
④ DOOR STOP



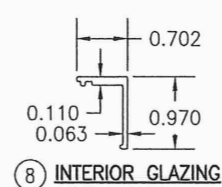
⑤ DOOR CAP



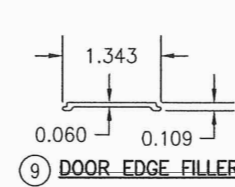
⑥ EXTERIOR GLAZING BEAD



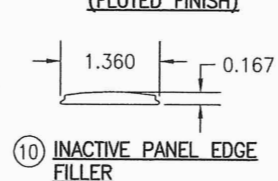
⑦ INTERIOR GLAZING BEAD



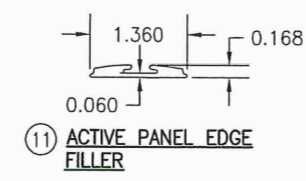
⑧ INTERIOR GLAZING
BEAD COVER



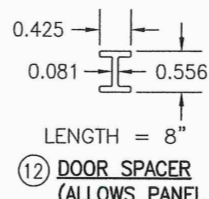
⑨ DOOR EDGE FILLER



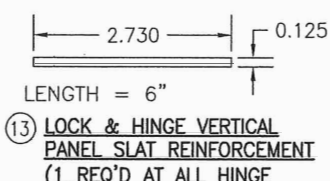
⑩ INACTIVE PANEL EDGE
FILLER



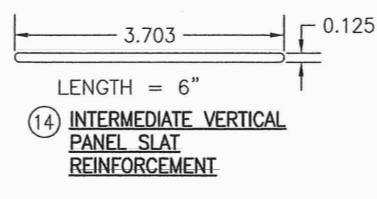
⑪ ACTIVE PANEL EDGE
FILLER



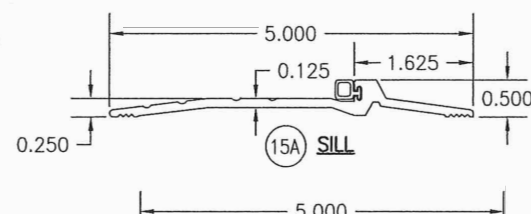
⑫ DOOR SPACER
(ALLOWS PANEL
MEMBERS TO
REVERSE DIRECTION)



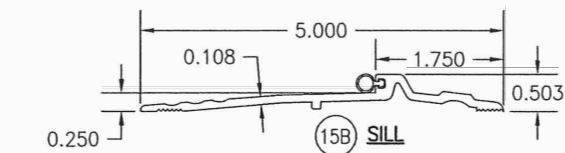
⑬ LOCK & HINGE VERTICAL
PANEL SLAT REINFORCEMENT
(1 REQ'D AT ALL HINGE
SLATS; 2 REQ'D AT
SURFACE LOCK BOLT
LOCATIONS WITH LOCK
OPTIONS 2 & 3)



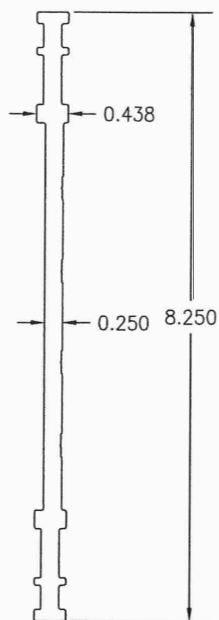
⑭ INTERMEDIATE VERTICAL
PANEL SLAT
REINFORCEMENT



⑮A SILL



⑮B SILL



LENGTH = 1 1/4"

⑰ BUTT HINGE BACK-UP PLATE

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 24-0625-12
Expiration Date 9/26/2028
By: *Manuel Perez*
Miami Dade Product Control

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. 23-0713.14
Expiration Date: 09/26/2028
By: *Manuel Perez*
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 22-1027.07
Expiration Date: 09/26/2028
By: *Manuel Perez*
Miami Dade Product Control



DRAWN BY:	CHECKED BY:
W.R.M.	W.W.S.
PLOT:	DATE:
1=2	04/11/13
NO.	
REVISION DESCRIPTION	
DATE	
BY	

DRAWING TITLE	FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR
CONSULTANTS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 26376 NADIR ROAD, UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424
MANUFACTURER	CROSS ALUMINUM PRODUCTS, INC. 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667

DRAWING NO.	REV.
1862	B
SHEET NO.	
10	OF 11

