



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

CGI Windows and Doors, Inc.
3780 W 104th Street,
Hialeah FL 33018

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "FD-7700" Outswing PVC French Door w/ & w/o Sidelite and Transom - L.M.I.

APPROVAL DOCUMENT: Drawing No. MD-7700.1 Rev D, Series titled "Vinyl French Door and SLT/TR", sheets 1 through 12 of 12, dated 05/07/13 and revised on 04/20/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, 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# 18-1220.03 (PLA 20-0427.05) and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4, E-5 and E-6, as well as approval document mentioned above.

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



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Approval Date: September 17, 2020
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7/8/20

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous NOA

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA# 15-0409.05)
2. Drawing No. **MD-7700.1**, Series titled "Vinyl French Door and SLT/TR", sheets 1 through 12 of 12, dated 05/07/13, with revision C dated 01/03/19, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

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) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a Series FD-5570/FD-2770 PVC double entrance outswing doors, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-8717**, dated 11/16/15, signed and sealed by Idalmis Ortega, P.E.
(Submitted under previous NOA# 16-0126.05)
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
4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a Series FD-5555/FD-7700 PVC double entrance outswing doors, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-8716**, dated 11/12/15, signed and sealed by Idalmis Ortega, P.E.
(Submitted under previous NOA# 16-0126.05)
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a Series FD-5555/FD-7700 PVC fixed sidelite, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-8715**, dated 11/05/15, signed and sealed by Idalmis Ortega, P.E.
(Submitted under previous NOA# 16-0126.05)



Ishaq I. Chanda, P.E.

Product Control Unit Supervisor

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B. TESTS (CONTINUED)

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
along with marked-up drawings and installation diagram of an outswing PVC French door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7370**, dated 05/23/13, signed and sealed by Jorge A. Naya, Jr., P.E.
(Submitted under NOA# 15-0409.05/#13-0815.03)
5. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an outswing Rigid PVC French door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7371**, dated 05/25/13, signed and sealed by Jorge A. Naya, Jr., P.E.
(Submitted under NOA# 15-0409.05/#13-0815.03)
6. 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 a PVC fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7338**, dated 05/25/13, signed and sealed by Jorge A. Naya, Jr., P.E.
(Submitted under NOA# 15-0409.05/#13-0815.03)
7. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a Rigid PVC fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7339**, dated 05/23/13, signed and sealed by Jorge A. Naya, Jr., P.E.
(Submitted under NOA# 15-0409.05/#13-0815.03)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, dated 03/30/15, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E. *(Submitted under NOA# 15-0409.05)*
2. Glazing complies with **ASTM E1300-09**



Ishaq I. Chanda, P.E.
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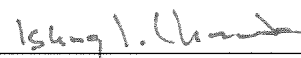
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 17-1114.14 issued to **Kuraray America, Inc.** for their "**Kuraray Trosifol® Ultraclear, clear and color PVB Interlayer**" dated 01/18/18, expiring on 07/08/19.
2. Notice of Acceptance No. 17-0808.02 issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 12/28/17, expiring on 07/04/23.
3. Notice of Acceptance No. 14-0820.11 issued to Vision Extrusions Limited for their "**White Rigid PVC Exterior Extrusions for Windows and Doors**", dated 11/06/14, expiring on 09/30/19.
(Submitted under NOA No. 15-0409.03)
4. Notice of Acceptance No. 14-0820.12 issued to Vision Extrusions Limited for their "**Brown Coated (Painted or Laminated) White Rigid PVC Exterior Extrusions for Windows and Doors**", dated 11/06/14, expiring on 09/30/19.
(Submitted under NOA No. 15-0409.05)
5. Notice of Acceptance No. 13-1121.01 issued to Vision Extrusions Limited for their series "**VE 2000 Tan 202 and lighter shades (Non-White) Rigid Cellular PVC Exterior Extrusions for Windows and Doors**" dated 01/23/14, expiring on 01/23/19.
(Submitted under NOA No. 15-0409.03/05)
6. Notice of Acceptance No. 13-1121.02 issued to Vision Extrusions Limited for their series "**White Rigid Cellular PVC Exterior Extrusions for Windows and Doors**" dated 01/23/14, expiring on 01/23/19.
(Submitted under NOA No. 15-0409.03/05)
7. Notice of Acceptance No. 11-0902.10 issued to Vision Extrusions Limited for their series "**VE 1000 Tan 202 (Non-White) Rigid PVC Exterior Extrusions for Windows and Doors**" dated 12/29/11, expiring on 12/29/16.
(Submitted under NOA No. 15-0409.03/05)
8. Quanex Part **Super Spacer Standard** complying with ASTM C518 Thermal Conductivity 0.881 BTU-in/ hr.-ft²-°F, ASTM F 1249 WVTR-Pass, ASTM D3985 Oxygen-Pass, ASTM E 2190 I.G. Durability-No Fog-Pass.
(Submitted under previous NOA No. 15-0409.03/05)
9. Quanex Part **Duraseal** complying with ASTM C518 Thermal Conductivity 2.22 BTU-in/ hr.-ft²-°F, ASTM F 1249 WVTR-Pass, ASTM D 1434 Argon Permeance-Pass, ASTM E 2189 I.G. Durability-No Fog, ASTM E 546 Dew Point Development -20°F in 48 hrs. *(Submitted under NOA No. 13-0815.03/#15-0409.05)*



Ishaq I. Chanda, P.E.

Product Control Unit Supervisor

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E. MATERIAL CERTIFICATIONS (CONTINUED)

10. Vision Extrusions, Ltd. Parts complying with PVC-AAMA 303-13.
(Submitted under NOA No. 13-0815.03/#15-0409.05)
11. PVC-AAMA 303-13, Voluntary Specification for Rigid Polyvinyl Chloride (PVC) Exterior Profiles for Vision Extrusions, Ltd.-VEX-1 by AAMA Fenestration Exterior Profile Certification Program. *(Submitted under NOA No.13-0815.03/# 15-0409.05)*

F. STATEMENTS

1. Statement letter of conformance to and of complying with **FBC 6th Edition (2017)**, dated December 18, 2018, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of no financial interest and of independent, issued by manufacturer, dated December 18, 2018, signed and sealed by Anthony Lynn Miller, P.E.
3. Laboratory compliance letter for Test Reports No. **FTL-7370, FTL-7371, FTL-7338 and FTL-7339**, all issued by Fenestration Testing Laboratory, Inc., dated 05/23/13 and 05/25/13, all signed and sealed by Jorge A. Naya, Jr., P.E.
(Submitted under NOA No. 15-0409.05)
4. Testing Proposal **#15-1178**, dated 07/23/15, issued by the Product Control Section, signed by Jaime Gascon, P.E.

G. OTHERS

1. Notice of Acceptance No. **17-0504.07**, issued to CGI Windows & Doors, Inc. for their Series "FD-7700" Outswing PVC French Door w/ & w/o Sidelite and Transom - L.M.I., approved on 12/14/17 and expiring on 01/23/19.

2. New Evidence Submitted

A. DRAWINGS

1. Drawing No. **MD-7700.1 Rev D**, Series titled "Vinyl French Door and SLT/TR", sheets 1 through 12 of 12, dated 05/07/13 and revised on 04/20/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

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

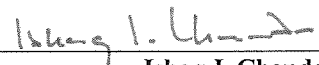
4) Large Missile Impact Test per FBC, TAS 201-94

5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

6) Forced Entry Test, per ASTM F588 and TAS 202-94

along with marked-up drawings and installation diagram of all PGT Industries, Inc.

representative units listed below and tested to qualify **Dowsil 791** and **Dowsil 983** silicones, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.:


Ishaq I. Chanda, P.E.

Product Control Unit Supervisor

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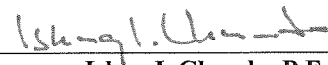
3) Water Resistance Test, per FBC, TAS 202-94

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 ASTM F588 and TAS 202-94

along with marked-up drawings and installation diagram of all PGT Industries, Inc. representative units listed below and tested to qualify **Dowsil 791** and **Dowsil 983** silicones, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.:


Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 20-0427.07
Expiration Date: January 23, 2024
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E. MATERIAL CERTIFICATIONS (conti)

7. Vision Extrusions, Ltd. Parts complying with PVC-AAMA 303-13, Voluntary Specification for Rigid Polyvinyl Chloride (PVC) Exterior Profiles for Vision Extrusions, Ltd.-VEX-1 by AAMA Fenestration Exterior Profile Certification Program. *(Submitted under NOA No. 15-0409.05)*
8. Vision Extrusions, Ltd. Parts complying with PVC-AAMA 303-13. *(Submitted under NOA No. 15-0409.05)*
9. PVC-AAMA 303-13, Voluntary Specification for Rigid Polyvinyl Chloride (PVC) Exterior Profiles for Vision Extrusions, Ltd.-VEX-1 by AAMA Fenestration Exterior Profile Certification Program.
10. Notice of Acceptance No. **18-1217.14** issued to Energi Fenestration Solution, USA, Inc. for their **"Tan 3040 & light shade (non-white) White Rigid PVC Exterior Extrusions for Windows and Doors"**, expiring on 02/04/21.
11. Notice of Acceptance No. **18-1217.14** issued to Energi Fenestration Solution, USA, Inc. for their **"Tan 3040 & light shade (non-white) White Rigid PVC Exterior Extrusions for Windows and Doors"**, expiring on 02/04/21.
12. Notice of Acceptance No. **18-0122.02** issued to Energi Fenestration Solution, USA, Inc. for their series **"White Rigid PVC Exterior Extrusions for Windows and Doors"**, expiring on 02/28/23.
13. Notice of Acceptance No. **20-0203.03** issued to Energi Fenestration Solution, USA, Inc. for their **"Bronze & light shade cap coated White Rigid PVC Exterior Extrusions for Windows and Doors"**, expiring on 04/16/25.

F. STATEMENTS

1. Statement letter of conformance to **FBC 7th Edition (2020)**, dated 04/20/20, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of no financial interest and of independent, issued by manufacturer, dated 04/18/20, signed and sealed by Anthony Lynn Miller, P.E.
3. Private Labeling Agreement document in conformance with the Product Control guidelines, dated 03/30/15 and signed by all involved parties *(Submitted under NOA No. 15-0409.05)*

G. OTHERS

1. This NOA **revises NOA# 18-1220.03 (PLA 20-0427.05)** and updates FBC 2020, expiring 01/23/24.
2. RER Test proposals **#19-1155** dated 01/10/20 approved by Ishaq I. Chanda, P.E.



Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
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SERIES FD-7700,
IMPACT-RESISTANT, VINYL, REINFORCED, OUTSWING
FRENCH DOOR & SIDELITE/TRANSOM (SLT/TR)

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

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

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

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

5) IF SILL IS TIGHT TO SUBSTRATE, GROUT IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT AT 3.4 KSI MIN. PER ASTM C1107, (DONE BY OTHERS). MAX. 1/4" SHIM SPACE FOR GROUT WHICH MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. IF SUBSTRATE IS WOOD, 30# FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION, COMPLYING WITH THE FBC.

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

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

8) DESIGN PRESSURES:

A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.

B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.

C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.

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

10) ALL RIGID PVC AND RIGID CELLULAR PVC MANUFACTURED BY ENERGI FENESTRATION SOLUTIONS USA, INC. OR VISION EXTRUSIONS, LTD. HAS BEEN TESTED TO COMPLY WITH THE FLORIDA BUILDING CODE FOR PLASTICS.

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

12) REFERENCES:

TEST REPORTS: FTL-7339, 7371, 8715, 8716 & 8717

NOA'S: ELCO ULTRAACON, DEWALT ULTRAACON+, DEWALT CRETEFLEX & DEWALT AGGREGATOR ANCHOR NOA'S, ENERGI FENESTRATION SOLUTIONS USA, INC. OR VISION EXTRUSION, LTD. WHITE RIGID PVC NOA, VE 1000 TAN 202 AND LIGHTER SHADES (NON-WHITE) RIGID PVC NOA AND BROWN COATED (PAINTED OR LAMINATED) WHITE RIGID PVC NOA

GUIDE TO SHEETS:

GENERAL NOTES.....	1
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PARTS LIST.....	11-12
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CODES / STANDARDS USED:

- 2020 FLORIDA BUILDING CODE (FBC), 7TH EDITION
- 2017 FLORIDA BUILDING CODE (FBC), 6TH EDITION
- ASTM E1300-09
- ANSI/AF&PA NDS-2018 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2015
- AISI S100-16
- AISC 360-16

DESIGN PRESSURE RATING	IMPACT RATING
VARIES, SEE SHEETS 4 & 5	RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE

TABLE 1:

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment
A	3/16" Ultracon	Concrete (min. 2.85 ksi)	1"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
	3/16" Ultracon+	Concrete (min. 3 ksi)	1-1/8"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
B	#10 Steel SMS (G5) #10 410 S.S. SMS #10 18-8 S.S. SMS	P.T. Southern Pine (SG=0.55)	1/2"	1-3/8"
		Aluminum, 6063-T5*	5/16"	0.063"
		Steel, A36*	5/16"	0.063"
		Steel Stud, A653 Gr. 33*	5/16"	0.063"
	3/16" Ultracon	P.T. Southern Pine (SG=0.55)	1/2"	1-3/8"
		Grouted CMU, (ASTM C-90)	2-1/2"	2-1/4"
		Concrete (min. 2.85 ksi)	1"	1-3/8"
	3/16" Ultracon+	P.T. Southern Pine (SG=0.55)	1/2"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Concrete (min. 3 ksi)	1-1/8"	1-3/4"
	1/4" Ultracon	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
	1/4" Ultracon+	Ungrouted CMU, (ASTM C-90)	1-1/16"	1-1/4"
	#12 Steel SMS (G5) #12 410 S.S. SMS #12 18-8 S.S. SMS	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.071"
		Steel, A36*	3/8"	0.071"
		Steel Stud, A653 Gr. 33*	3/8"	0.071" (14 Ga)
C	1/4" Ultracon	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		Grouted CMU, (ASTM C-90)	2-1/2"	1-3/4"
		Concrete (min. 2.85 ksi)	1"	1-3/8"
	1/4" Ultracon+	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		Grouted CMU, (ASTM C-90)	1-1/8"	1-3/4"
		Concrete (min. 3 ksi)	1-1/4"	1-3/8"
	1/4" 410 S.S. CreteFlex	Concrete (min. 3.35 ksi)	1"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
	1/4" 18-8 S.S. Aggre-Gator	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		Concrete (min. 3.27 ksi)	1-1/2"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	4"	1-1/4"
D	1/4" Ultracon	Concrete (min. 2.85 ksi)	2-1/2"	1-3/8"
	1/4" Ultracon+	Concrete (min. 3 ksi)	2-1/2"	1-3/8"
	1/4" 410 S.S. CreteFlex	Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"

1) * MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

2) UNGROUTED CMU VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

3) ANY ANCHOR FROM THE ABOVE TABLE IS ACCEPTABLE TO BE USED ALONG A DOOR JAMB, REGARDLESS OF ANCHOR GROUP CHOSEN.

4) SEE ANCHOR/SUBSTRATE MATERIAL PROPERTIES ON SHEET 11 FOR Fy & Fu.

TABLE 2:

Type #	Description	Where Used:
1	1-3/16" Lami. IG (1/8" T - 11/16" Air - 1/8" ANN - .090" PVB - 1/8" ANN)	Door
2	1-3/16" Lami. IG (3/16" T - 5/8" Air - 1/8" ANN - .090" PVB - 1/8" ANN)	Door
3	1-3/16" Lami. IG (1/8" T - 9/16" Air - 3/16" ANN - .090" SG - 3/16" ANN)	Sidelite/Transom
4	1-3/16" Lami. IG (3/16" T - 1/2" Air - 3/16" ANN - .090" SG - 3/16" ANN)	Sidelite/Transom
5	1-3/16" Lami. IG (1/8" T - 9/16" Air - 3/16" ANN - .090" PVB - 3/16" ANN)	Sidelite/Transom
6	1-3/16" Lami. IG (3/16" T - 1/2" Air - 3/16" ANN - .090" PVB - 3/16" ANN)	Sidelite/Transom
7	7/16" Lami. (3/16" ANN - .090" PVB - 3/16" ANN)	Door/Sidelite/Transom

"ANN" = ANNEALED

"T" = TEMPERED

"PVB" = .090" TROSIFOL® PVB INTERLAYER BY KURARAY AMERICA, INC.

"SG" = .090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.

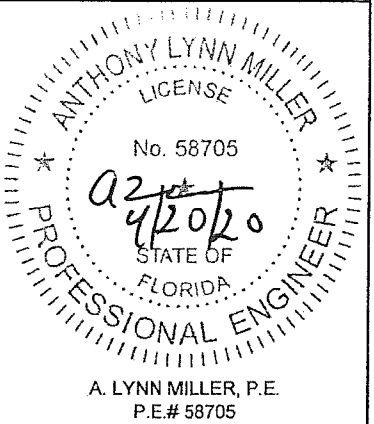
SEE SHEET 3 FOR SPACER INFORMATION.

PRODUCT REVISION
as complying with the Florida
Building Code
Acceptance No. 20-0427.07
Expiration Date JAN 23, 2024
Isheng I. Lin
Global Trade Product Control

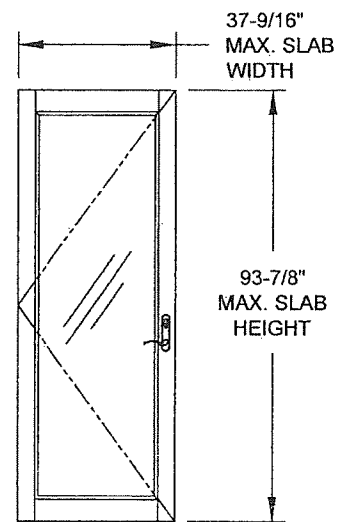
Rev.: D) UPDATED TO FBC 2020, REVISED
ANCHOR TYPE TABLE.
AK - 4/9/20

PREPARED BY: A. LYNN MILLER, P.E.
1070 TECHNOLOGY DRIVE
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REGISTRATION #29296

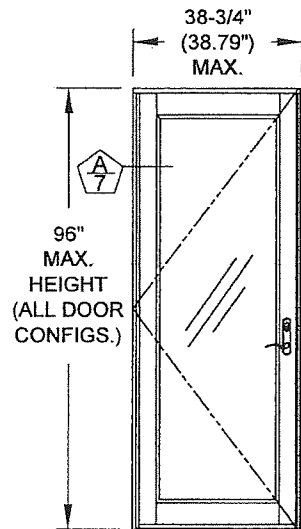
CGI Windows and Doors, Inc. 3780 W. 104th Street Hialeah, FL 33018 Tel: 305.593.6590	VINYL FRENCH DOOR AND SLT/TR	J ROSOWSKI	MD-7700.1	D
Impact Resistant Windows & Doors WE'RE STRONGER™	GENERAL NOTES	FD-7700	1 OF 12	NTS



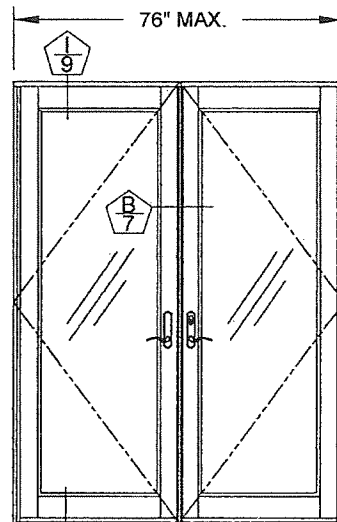
EXAMPLE CONFIGURATIONS



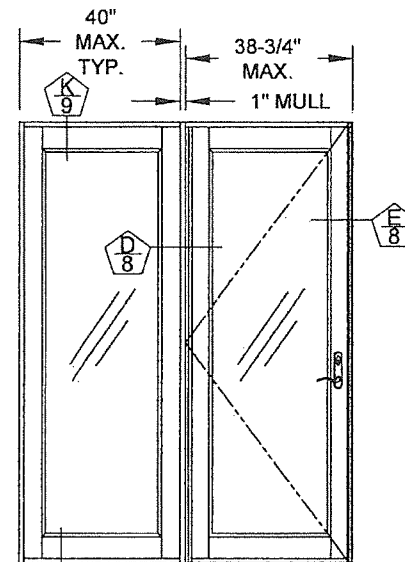
TYP. DOOR SLAB



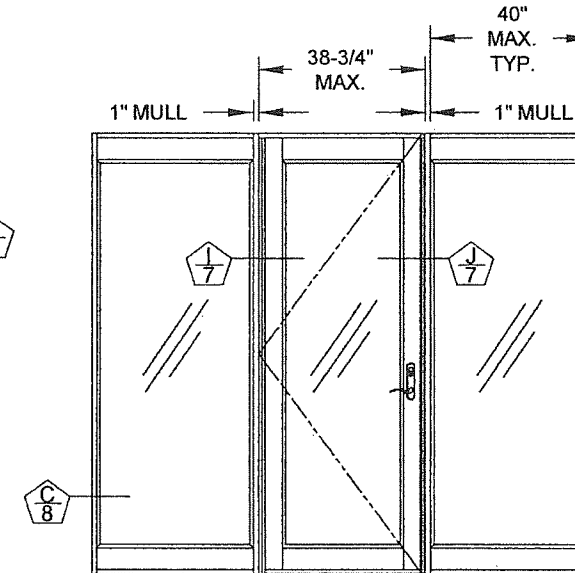
X



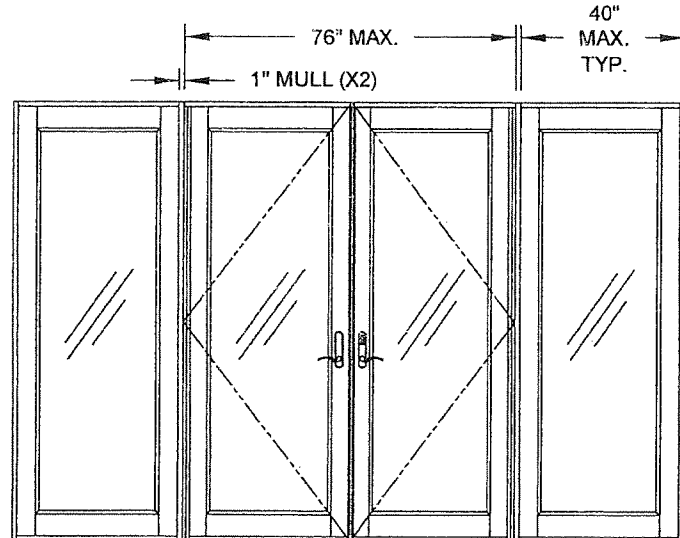
XX



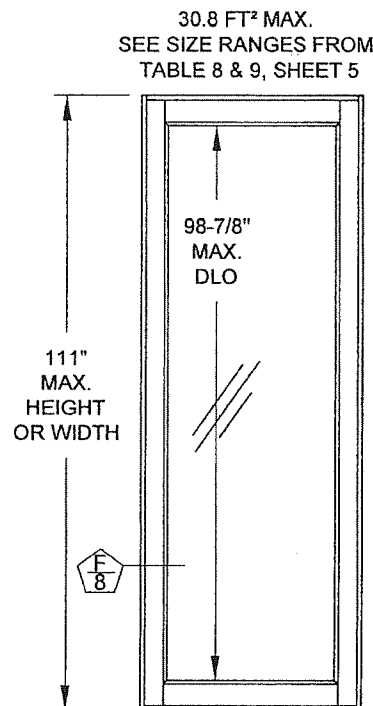
OIX (SHOWN) OR XIO
(WIDE STILES AND WIDE RAILS
SHOWN ON SIDELITES)



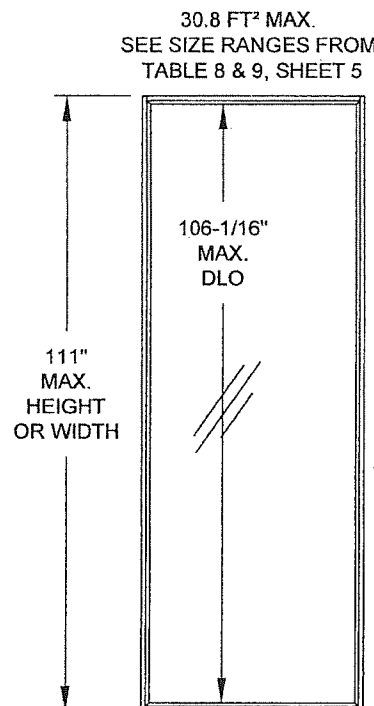
OIXIO
(NARROW STILES AND WIDE
RAILS SHOWN ON SIDELITES)



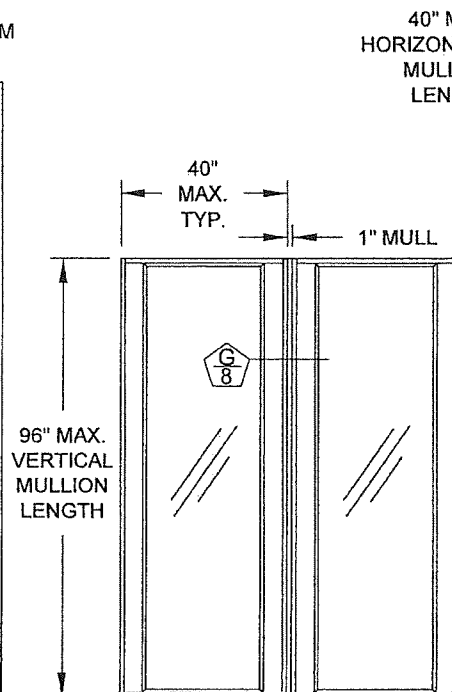
OXXIO
(WIDE STILES AND WIDE
RAILS SHOWN ON SIDELITES)



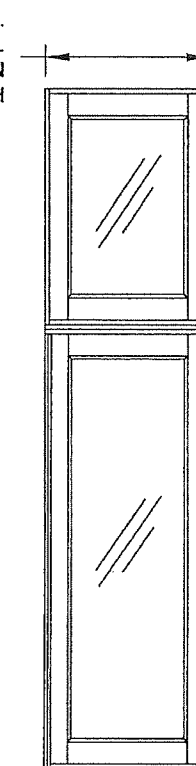
SINGLE O
(WIDE STILES AND WIDE
RAILS SHOWN ON SIDELITES)



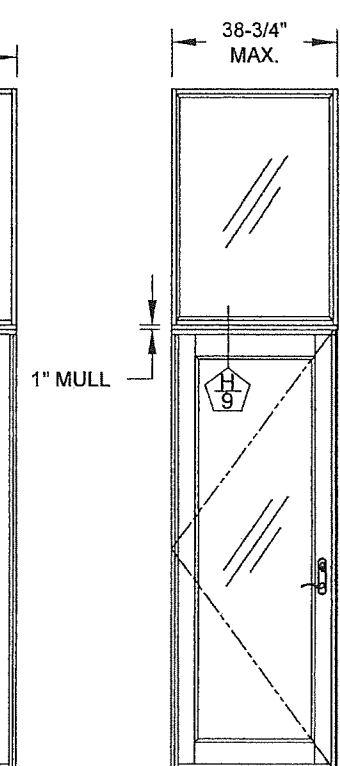
SINGLE O
(NARROW STILES AND NARROW
RAILS SHOWN ON SIDELITES)



OIO (MAXIMUM OF 2
MULLED SIDELITES)
(WIDE STILES AND NARROW
RAILS SHOWN ON SIDELITES)



O/O WITH
HORIZONTAL
MULLION
(WIDE STILES AND
WIDE RAILS SHOWN
ON SIDELITE &
TRANSOM)



OIX WITH
HORIZONTAL
MULLION
(NARROW STILES
AND NARROW
RAILS SHOWN ON
TRANSOM)

NOTES:

- 1) SINGLE DOORS MAY BE LEFT OR RIGHT-HANDED.
- 2) MULLIONS SHOWN ARE STANDARD 1" FRENCH DOOR MULLIONS PER THIS NOA.
- 3) MULLED CONFIGURATIONS NOT SHOWN MAY BE POSSIBLE USING OTHER MULLION TYPES, SEE SEPARATE NOA.
- 4) FRENCH DOOR MULLION IS LIMITED TO 96" IN VERTICAL APPLICATIONS AND 40" IN HORIZONTAL APPLICATIONS.
- 5) NARROW OR WIDE STILES AND RAILS MAY BE MIXED WITHIN THE SAME SLT/TR OR MULLED ASSEMBLY.
- 6) ADDITIONAL CONFIGURATIONS USING THE 1" FRENCH DOOR MULLION ARE POSSIBLE. USE THE ABOVE DRAWINGS AS A REFERENCE FOR SIZE LIMITATIONS.

PRODUCT REVISION
as complying with the Florida
Building Code
Acceptance No. 20-0427.07
Expiration Date 1/23/24
Anthony Lynn Miller
Miami Based Product Consultant

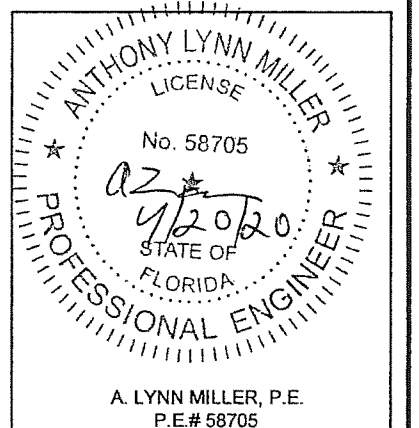
Rev.: D) NO CHANGES THIS SHEET.
AK - 4/9/20

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CGI Windows and Doors, Inc.
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Tel: 305.593.6590

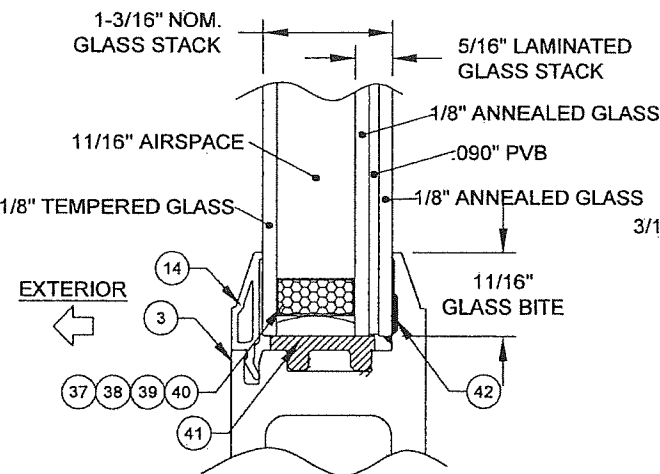


Series	Desc.	Title	Scale	Sheet	No.	By	Date	Rev.
FD-7700	EXAMPLE CONFIGURATIONS	VINYL FRENCH DOOR AND SLT/TR	NTS	2 OF 12	DWG	J ROSOWSKI	5/7/13	D
								MD-7700.1

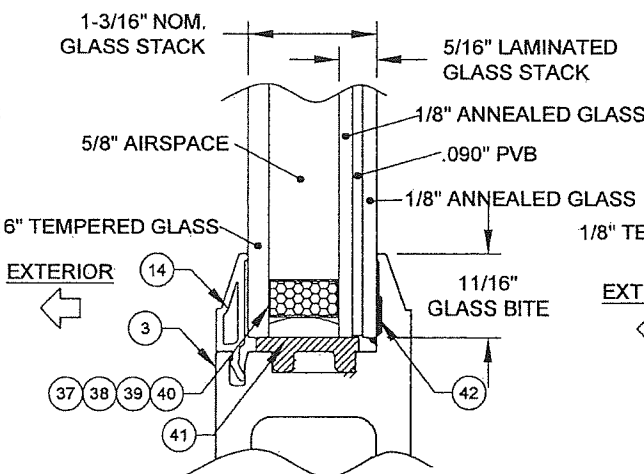


A. LYNN MILLER, P.E.
P.E.# 58705

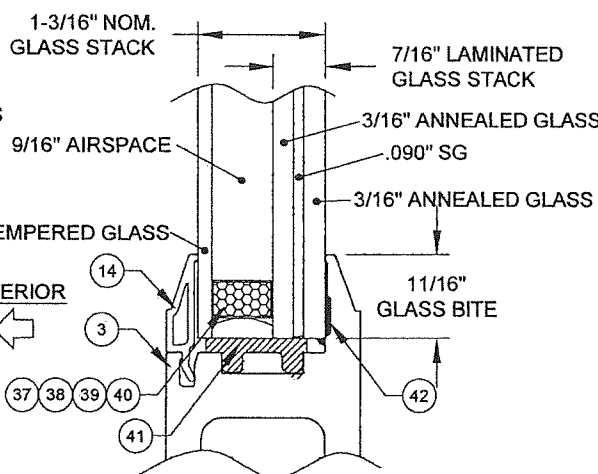
GLAZING DETAILS



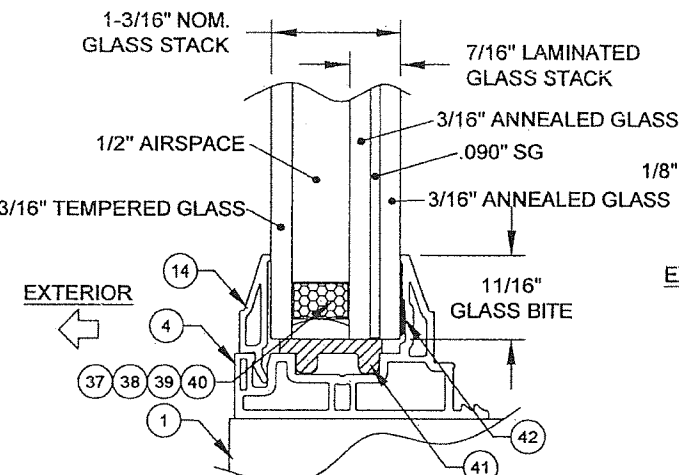
GLASS TYPE 1
USED IN DOOR ONLY



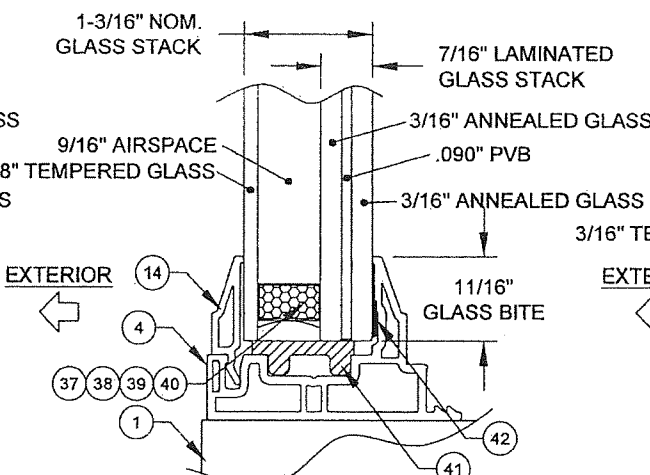
GLASS TYPE 2
USED IN DOOR ONLY



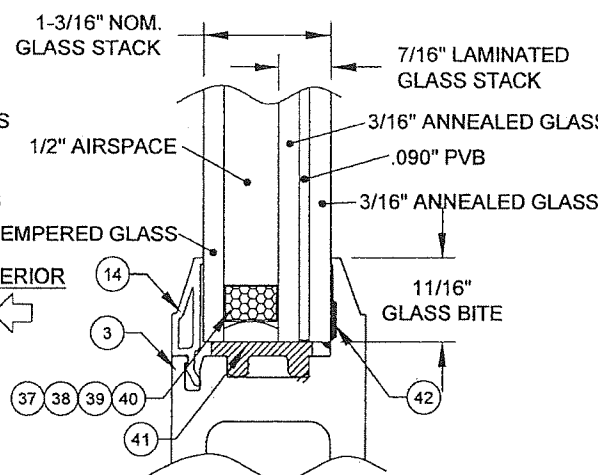
GLASS TYPE 3
TYP. WIDE FRAME GLAZING
DETAIL, NARROW FRAME SIMILAR



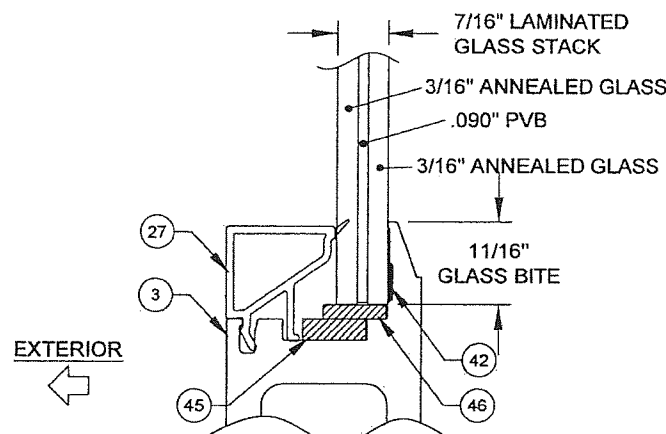
GLASS TYPE 4
TYP. NARROW FRAME GLAZING
DETAIL, WIDE FRAME SIMILAR.



GLASS TYPE 5
TYP. NARROW FRAME GLAZING
DETAIL, WIDE FRAME SIMILAR.



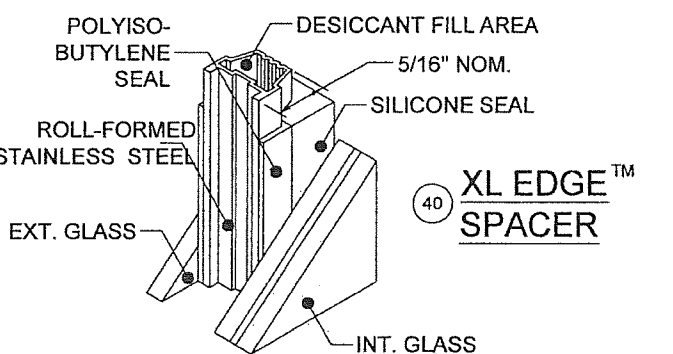
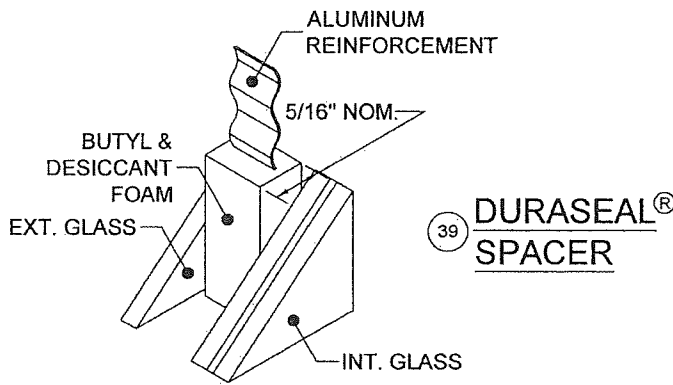
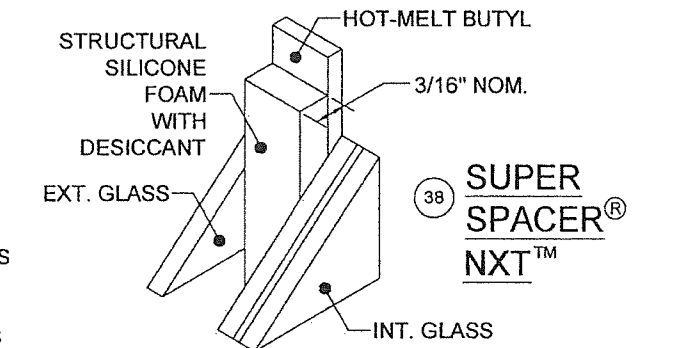
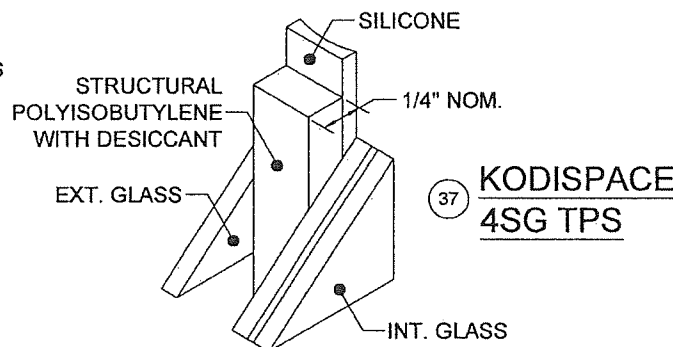
GLASS TYPE 6
TYP. WIDE FRAME GLAZING
DETAIL, NARROW FRAME SIMILAR



GLASS TYPE 7
USED IN DOOR, (SHOWN)
& SIDELITE/TRANSOM

"PVB" = .090" TROSIFOL® PVB BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.

REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970



PRODUCT REVIEW
as complying with the Florida
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Acceptance No 20-0427-07
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A. Lynn Miller, P.E.
Professional Engineer

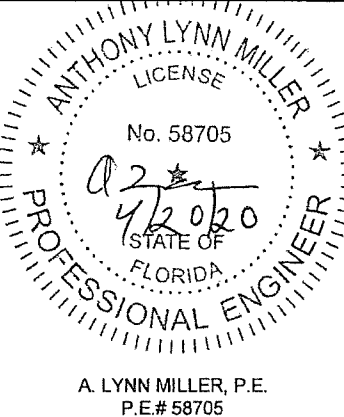
Rev.: D) NO CHANGES THIS SHEET.
AK - 4/9/20

PREPARED BY: A. LYNN MILLER, P.E.
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275, (941) 480-1600
REGISTRATION #29296

CGI Windows and Doors, Inc.
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Hialeah, FL 33018
Tel: 305.593.6590



Rev.	Date	By	DWG	No.	Sheet	Scale	Series
D	5/7/13	J ROSOWSKI	MD-7700.1	3 OF 12	NTS	FD-7700	GLAZING DETAILS



SINGLE DOOR INSTALLATION (X)

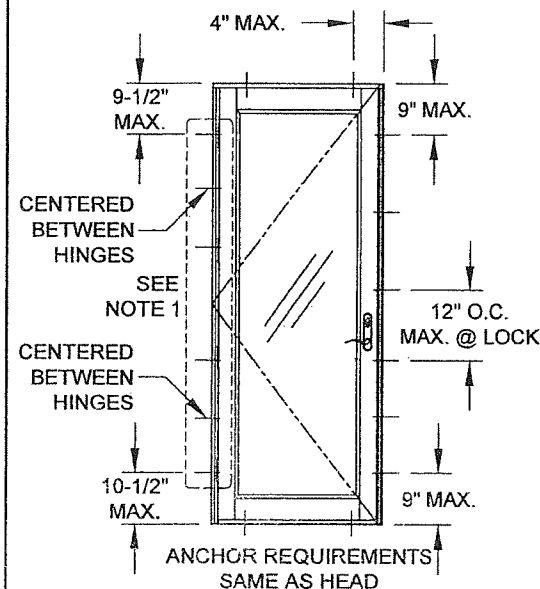


TABLE 3:

X & XX Door: Design Pressure	
+/-50.0 PSF	Glass Type 1
+/-70.0 PSF	Glass Types 2 & 7

DOUBLE DOOR INSTALLATION (XX)

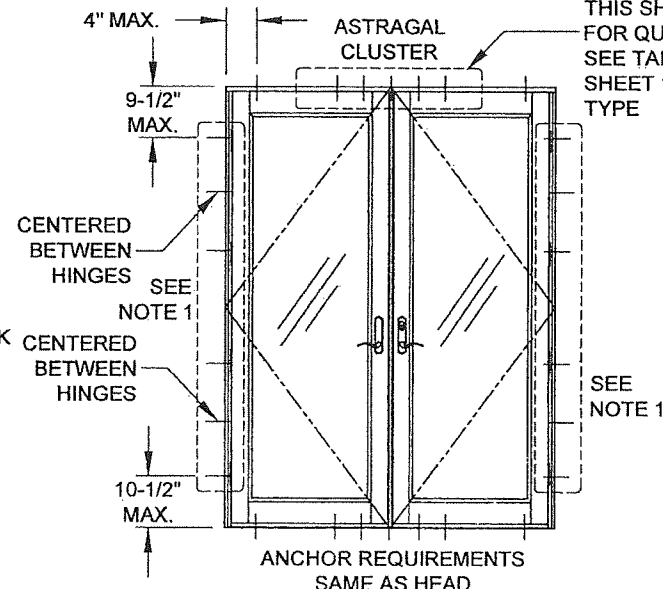


TABLE 4:

XX Door: Astragal Cluster Anchors Required @ Head & Sill									
Door Height (in)	Door Width (in)								Anchor Group
	48	60	72	76	80	84	88	92	
80	4	4	4	5	4	5	4	4	4
96	4	5	4	6	4	6	5	4	4

TRANSOM-TO-DOOR (X/O) OR TRANSOM-TO-SIDELITE (O/O) MULLION ATTACHMENT & INSTALLATION

ATTACH DOORS, SIDELITES & TRANSOMS TO THE MULLION AS PER THE INSTRUCTION OF THE INDIVIDUAL PRODUCT

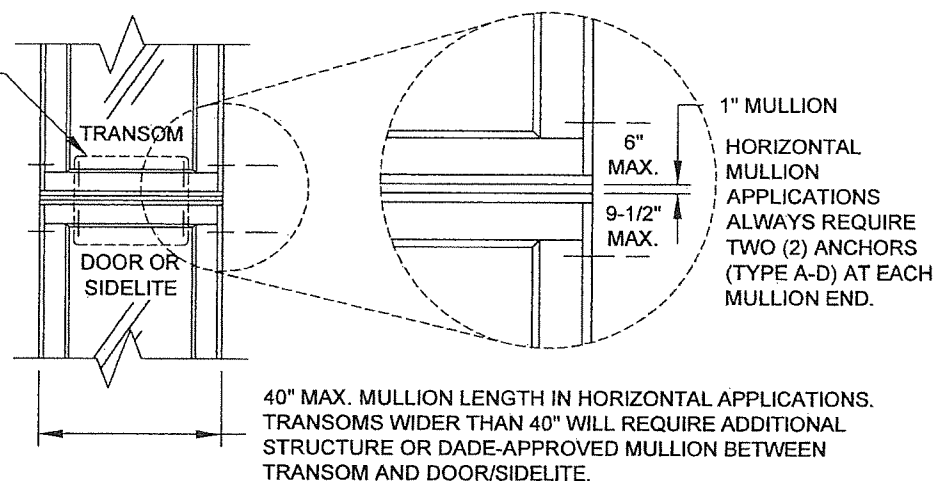


TABLE 7:

HORIZONTAL MULLION DESIGN PRESSURE
+/-70.0 PSF

SIDELITE-TO-SIDELITE MULLION INSTALLATION (O/O)

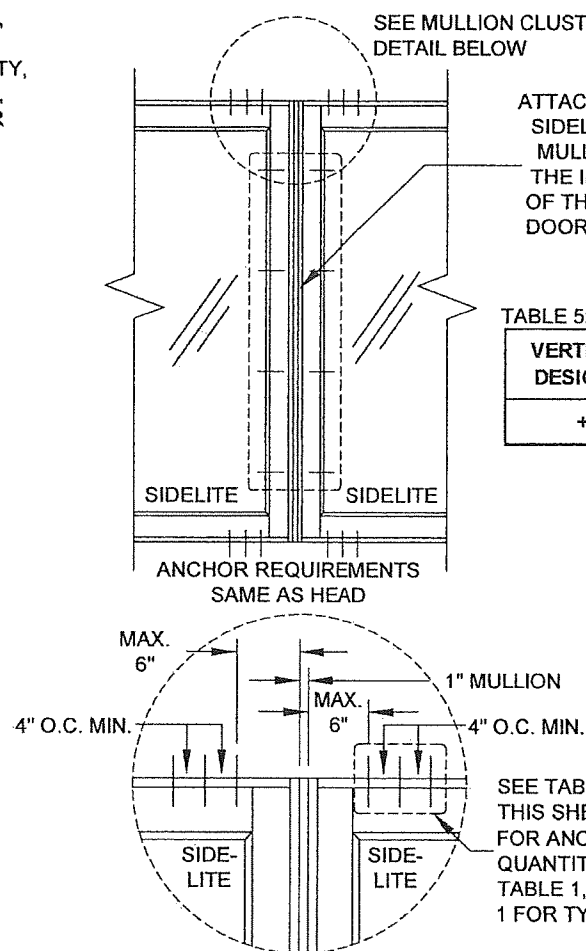


TABLE 6:

Anchors Required for a Vertical Mullion (each mullion end)													
Mullion Height (in)	Door or Sidelite/Transom Width (in)												
	12	24	32	38-3/4	40	48	60	72	76	80	84	88	92
Door	N/A	2	1	2	2	1	3	2	1	3	2	1	1
SLT/TR	1	2	1	2	2	1	3	2	1	3	2	1	1
Door	N/A	2	1	3	2	1	3	3	2	N/A	N/A	N/A	N/A
SLT/TR	1	2	1	3	2	1	3	3	2	3	3	2	2

FOR "O|XX|O" AND SIMILAR CONFIGURATIONS CONTAINING A DOUBLE DOOR (XX), USE ONLY HALF OF THE FRAME WIDTH OF THE DOUBLE DOOR WHEN USING THIS TABLE.

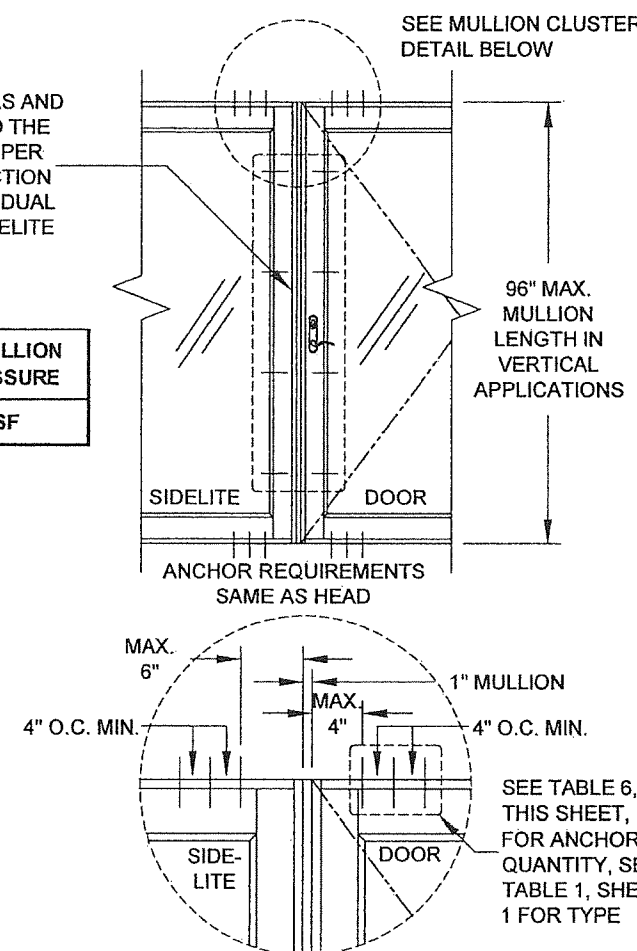
INSTRUCTIONS:

- 1) DOOR HINGE JAMBS OF ALL HEIGHTS TO ALWAYS BE ANCHORED WITH SIX ANCHORS. SEE TABLE 1, SHEET 1, FOR ALL APPROVED ANCHORS. FOUR OF THE SIX ANCHORS MUST BE INSTALLED THROUGH THE HINGES, ONE AT EACH HINGE LOCATION (RECOMMENDED #10 FLATHEAD SMS OR 3/16" FLATHEAD ULTRA CON FOR EACH HINGE ANCHOR).
- 2) FOR A MULLED UNIT, DETERMINE THE DESIGN PRESSURE OF EACH COMPONENT IN THAT CONFIGURATION. FOR EXAMPLE, ON AN "X|O" CONFIGURATION, THE DP FOR THE DOOR, THE MULLION AND THE SIDELITE MUST EACH BE DETERMINED. THE LOWEST DP APPLIES TO THE ENTIRE ASSEMBLY.

NOTES:

- 1) SINGLE DOOR MAY BE LEFT OR RIGHT-HANDED.
- 2) MULLIONS SHOWN ARE STANDARD 1" FRENCH DOOR MULLIONS.
- 3) MULLED CONFIGURATIONS NOT SHOWN MAY BE POSSIBLE USING OTHER MULLION TYPES, SEE SEPARATE NOA. THE LOWEST COMPONENT DP IS TO BE THE OVERALL ASSEMBLY DP.
- 4) FRENCH DOOR MULLION IS LIMITED TO 96" IN VERTICAL APPLICATIONS AND 40" IN HORIZONTAL APPLICATIONS.
- 5) NARROW OR WIDE STILES AND RAILS MAY BE MIXED WITHIN THE SAME SIDELITE/TRANSOM OR MULLED ASSEMBLY.
- 6) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG DIMENSION.

SIDELITE-TO-DOOR MULLION INSTALLATION (X|O, O|X, X|X, O|X|O, X|O|X, O|XX|O, ETC)



PRODUCT REVIEWED
as complying with the Florida
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Acceptance No. 20-0427-07
Expiration Date 1/23/2024
Anthony Lynn Miller
Professional Engineer

Rev. D) ADDED ANCHOR GROUP A TO
TABLES 4 & 6.
AK - 4/9/20

PREPARED BY: A. LYNN MILLER, P.E.
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REGISTRATION #29296

CGI Windows and Doors, Inc.
3780 W. 104th Street
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Impact Resistant
Windows & Doors
WE'RE STRONGER™

VINYL FRENCH DOOR AND SLT/TR
DESIGN PRESSURE 1
FD-7700

J ROSOWSKI
4 OF 12
MD-7700.1
D

ANTHONY LYNN MILLER
LICENSE
No. 58705
4/2/2020
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 8:

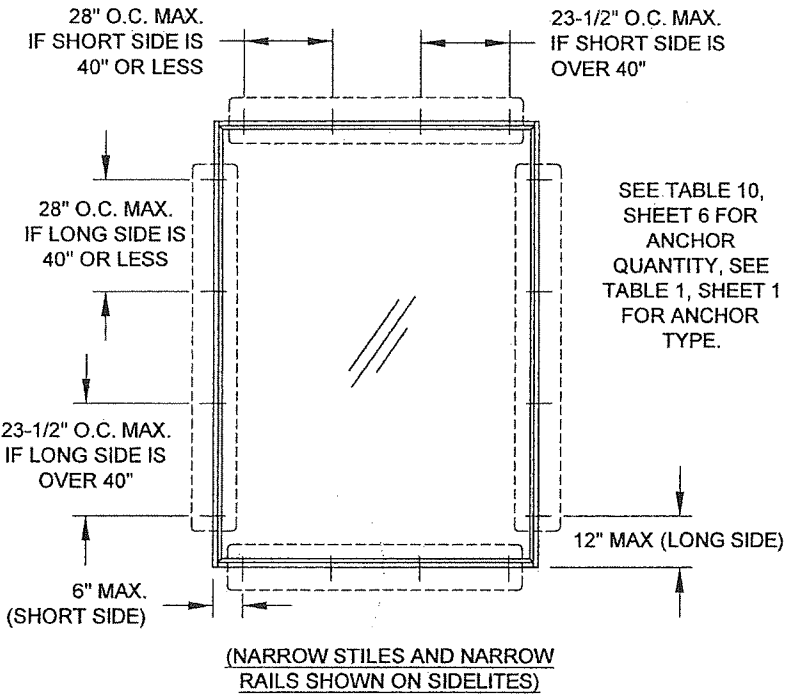
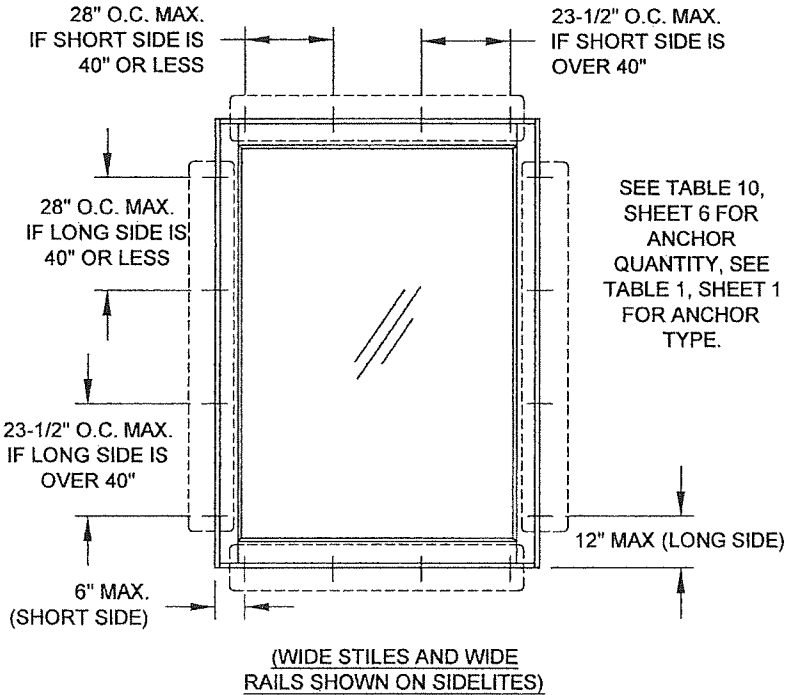
		Sidelite/Transom Design Pressure (+/-, psf) for Glass Types 3 & 4															
		Long Side (in)															
Short Side (in)		63-3/16	66-5/8	68	70	72	76	78	82	84	88	92	96	98	104	108	111
	24	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	28	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	32	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	36	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	38-3/4	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	40	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	42	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	44	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	46	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	48	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	50	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	52	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	54	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	56	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	58	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	60	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	62	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	63-3/16	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	66-5/8	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70

TABLE 9:

		Sidelite/Transom Design Pressure, psf for Glass Types 5, 6 & 7															
		Long Side (in)															
Short Side (in)		63-3/16	66-5/8	68	70	72	76	78	82	84	88	92	96	98	104	108	111
	24	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	28	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	32	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	36	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	38-3/4	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	40	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	42	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	44	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	46	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	48	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	50	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	52	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	54	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	56	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	58	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	60	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	62	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
	63-3/16	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70

NOTES:
1) NARROW OR WIDE STILES AND RAILS MAY BE MIXED WITHIN THE SAME SIDELITE/TRANSOM OR MULLED ASSEMBLY.
2) SIDELITE/TRANSOM MAY BE A SINGLE, STAND-ALONE UNIT.
3) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG DIMENSION.

SIDELITE/TRANSOM INSTALLATION (O)



PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 20-0427-07
Expiration Date 1/23/24
A. Lynn Miller, P.E.
Professional Engineer

Rev.: D) NO CHANGES THIS SHEET.
AK - 4/9/20

PREPARED BY: A. LYNN MILLER, P.E.
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275, (941) 480-1600
REGISTRATION #29296

CGI Windows and Doors, Inc. 3780 W. 104th Street Hialeah, FL 33018 Tel: 305.593.6590	J ROSOWSKI	5/7/13	D
Impact Resistant Windows & Doors WE'RE STRONGER™	VINYL FRENCH DOOR AND SLT/IR	DESIGN PRESSURE 2	5 OF 12
FD-7700	NTS	Scale	Sheet

ANTHONY LYNN MILLER
LICENSE
No. 58705
A242020
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 10:

			Sidelite/Transom Anchor Quantity																																
			Long Side (in)																																
			63-3/16		66-5/8		68		70		72		76		78		82		84		88		92		96		98		104			108		111	
			Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Group B	Anchor Groups C-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D
Short Side (in)	24	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Long Side	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	6	5	5	6	6	6	6
	28	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Long Side	4	4	4	4	4	4	4	4	4	4	5	4	5	4	5	4	5	5	5	5	6	5	6	5	6	5	6	5	5	7	6	7	6
	32	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Long Side	4	4	4	4	4	4	4	4	5	4	5	4	5	4	5	4	6	5	6	5	6	5	6	5	7	5	7	5	5	7	6	8	6
	36	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Long Side	4	4	5	4	5	4	5	4	5	4	5	4	5	4	6	4	6	5	6	5	7	5	7	5	7	5	8	5	5	7	6	8	6
	38-3/4	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Long Side	4	4	5	4	5	4	5	4	5	4	6	4	6	4	6	4	6	5	7	5	7	5	7	5	8	5	8	5	5	8	6	9	6
	40	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Long Side	4	4	5	4	5	4	5	4	5	4	6	4	6	4	6	4	6	5	7	5	7	5	8	5	8	5	8	5	5	9	6	9	6
	42	Short Side	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3			
		Long Side	5	4	5	4	5	4	5	4	5	4	6	4	6	4	6	4	7	5	7	5	7	5	8	5	8	5	8	6	5				
	44	Short Side	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3							
		Long Side	5	4	5	4	5	4	5	4	6	4	6	4	6	4	7	4	7	5	7	5	7	5	8	5	8	5							
	46	Short Side	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3									
		Long Side	5	4	5	4	5	4	6	4	6	4	6	4	6	4	7	4	7	5	7	5	7	5	8	5									
	48	Short Side	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3										
		Long Side	5	4	5	4	5	4	6	4	6	4	6	4	6	4	7	4	7	5	7	5	7	5											
50	Short Side	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3													
	Long Side	5	4	5	4	5	4	6	4	6	4	6	4	6	4	7	4	7	5	7	5														
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	Long Side	5	4	5	4	6	4	6	4	6	4	6	4	6	4	7	4	7	5																
54	Short Side	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3																		
	Long Side	5	4	5	4	6	4	6	4	6	4	6	4	6	4	7	4																		
56	Short Side	4	3	4	3	4	3	4	3	4	3	4	3	4	3																				
	Long Side	5	4	6	4	6	4	6	4	6	4	6	4	6	4																				
58	Short Side	4	3	4	3	4	3	4	3	4	3	4	3																						
	Long Side	5	4	6	4	6	4	6	4	6	4	6	4																						
60	Short Side	5	4	5	4	5	4	4	4	4	4																								
	Long Side	5	4	6	4	6	4	6	4	6	4																								
62	Short Side	5	4	5	4	5	4	5	4																										
	Long Side	5	4	6	4	6	4	6	4																										
63-3/16	Short Side	5	4	5	4	5	4																												
	Long Side	5	4	6	4	6	4																												
66-5/8	Short Side	5	4	6	4																														
	Long Side	6	4	6	4																														

NOTES:
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PRODUCT REVISED
as complying with the Florida
Holding Code
Acceptance No. 20-0427.07
Expiration Date 1/23/24

A. Lynn Miller, P.E.
Professional Engineer

Rev: D) NO CHANGES THIS SHEET.
AK - 4/9/20

PREPARED BY: A. LYNN MILLER, P.E.
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275, (941) 480-1600
REGISTRATION #29296

CGI Windows and Doors, Inc.
3780 W. 104th Street
Hialeah, FL 33018
Tel: 305.593.6590


Impact Resistant
Windows & Doors
WE'RE STRONGER™

VINYL FRENCH DOOR AND SLTTR

SLTTR ANCHOR QUANTITIES

FD-7700

5/7/13

Date

5/7/13

By

J ROSOWSKI

Drawn

6 OF 12

Sheet

NTS

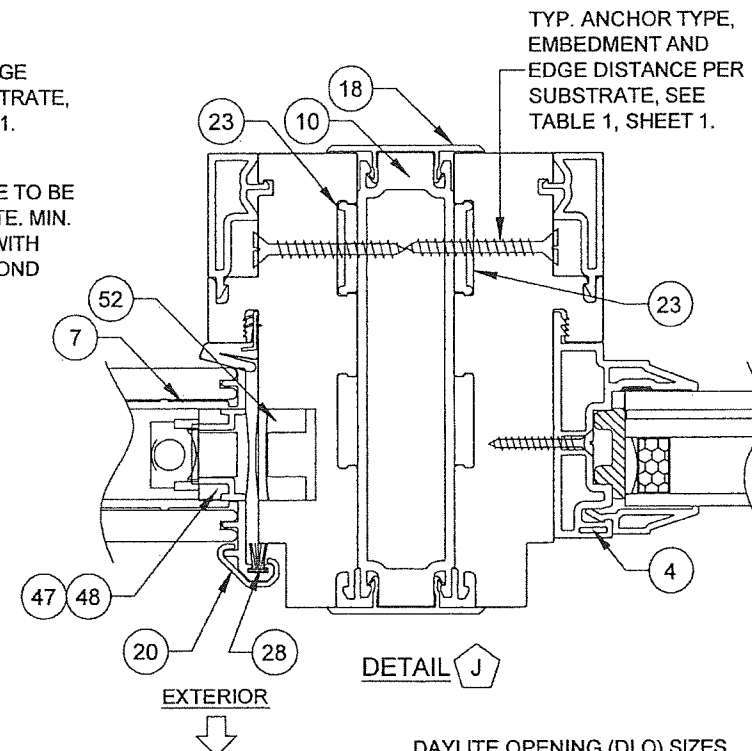
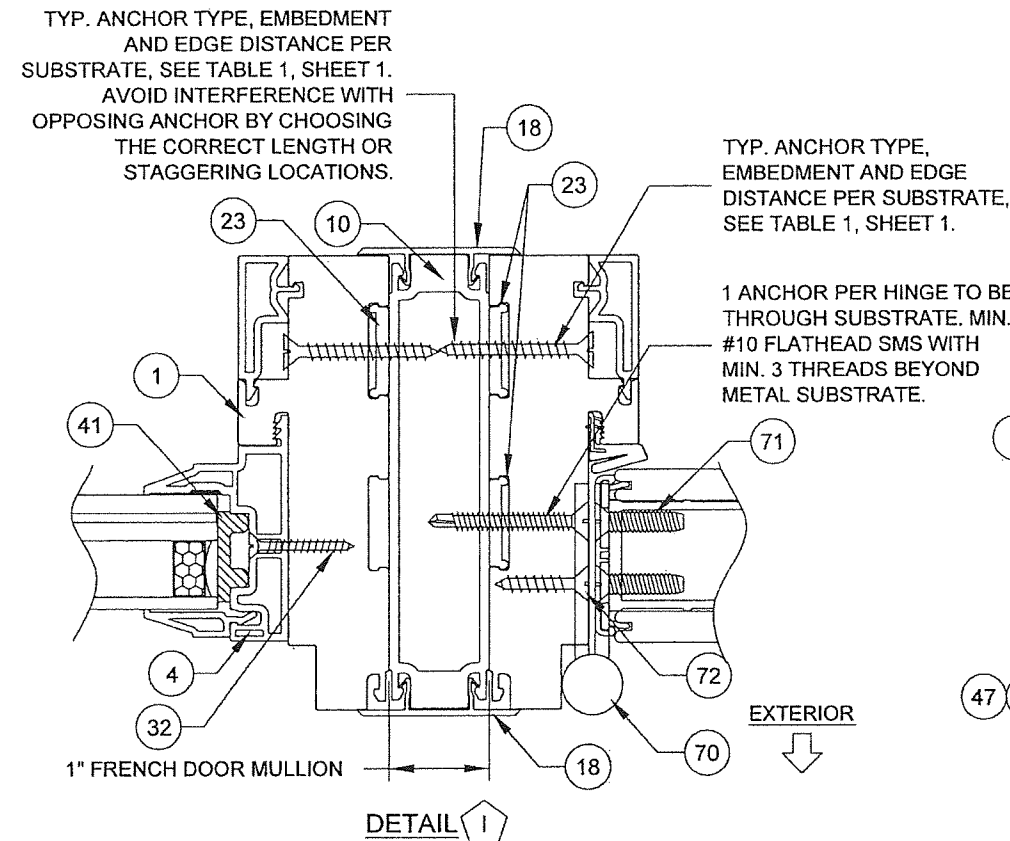
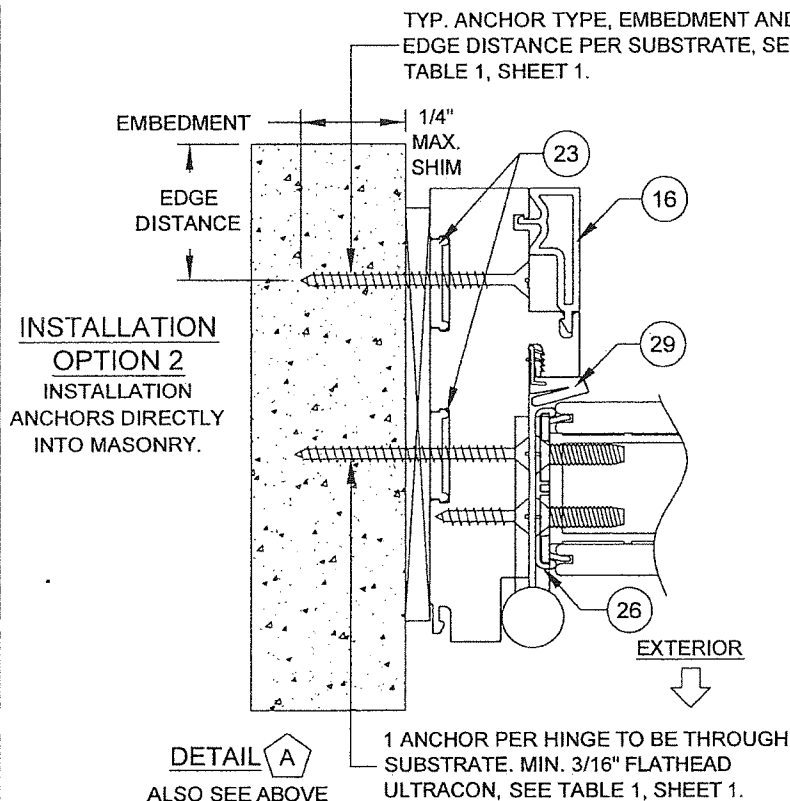
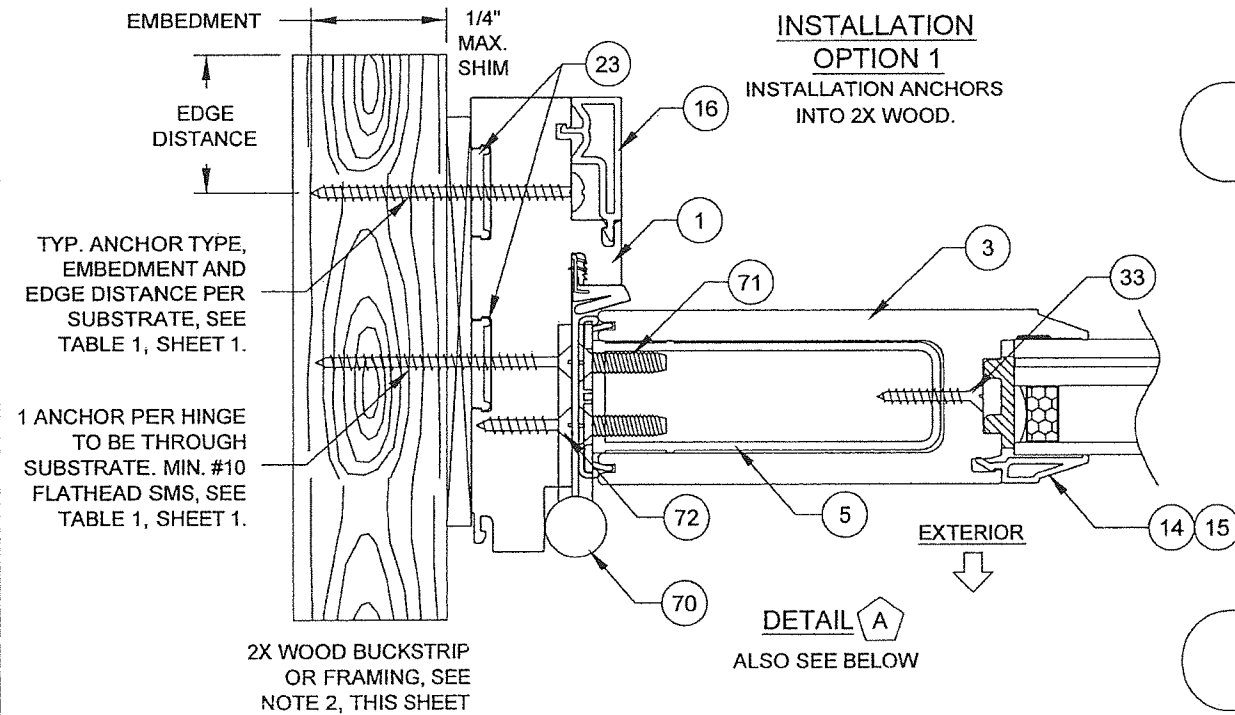
Scale

Rev.

D

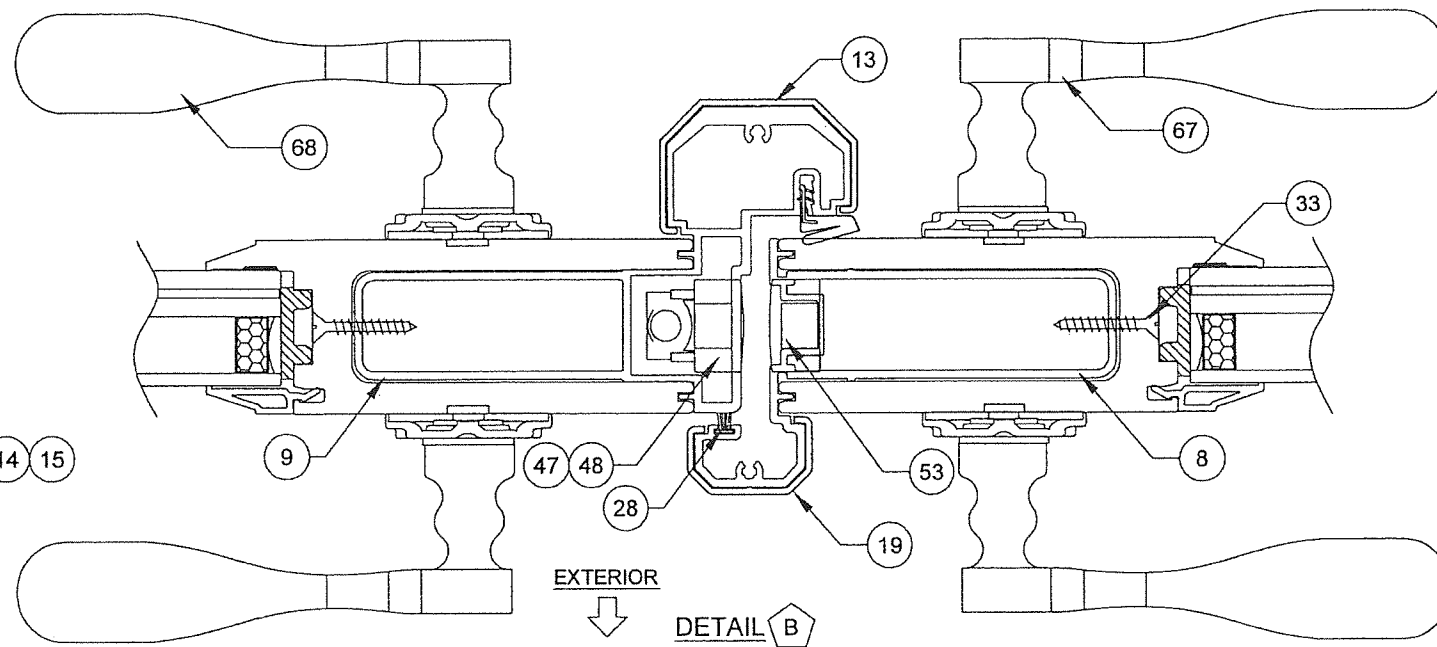
MD-7700.1

ANTHONY LYNN MILLER
LICENSE
No. 58705
A. Lynn Miller
4/20/20
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



INSTALLATION NOTES:

- 1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 1, SHEET 1. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE DOOR, SIDELITE OR TRANSOM.
- 2) WOOD BUCKS DEPICTED ON THIS SHEET AS "1X", ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1-1/2". 1X WOOD BUCKS ARE OPTIONAL IF UNIT CAN BE INSTALLED DIRECTLY TO MASONRY. WOOD BUCKS DEPICTED AS "2X" ARE 1-1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- 3) FOR ATTACHMENT TO METAL: THE STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE FRAME OF THE DOOR, SIDELITE OR TRANSOM.
- 4) IF APPLICABLE, LOWEST DESIGN PRESSURE FROM DOOR, SIDELITE, TRANSOM OR MULLION APPLIES TO THE WHOLE SYSTEM.



DAYLITE OPENING (DLO) SIZES

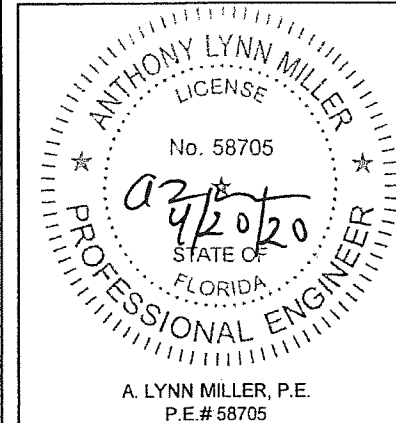
WHEN USING PART # 3: (WIDE RAILS OR STILES)
 X DOOR FRAME HEIGHT - 12.1 = DLO HEIGHT
 X DOOR FRAME WIDTH - 12.3 = DLO WIDTH
 (XX DOOR FRAME HEIGHT) - 12.1 = DLO HEIGHT
 (XX DOOR FRAME WIDTH / 2) - 11.5 = DLO WIDTH
 SLT/TR FRAME HEIGHT - 12.1 = DLO HEIGHT
 SLT/TR FRAME WIDTH - 12.1 = DLO WIDTH
 WHEN USING PART # 4: (NARROW RAILS OR STILES)
 SLT/TR FRAME HEIGHT - 4.9 = DLO HEIGHT
 SLT/TR FRAME WIDTH - 4.9 = DLO WIDTH

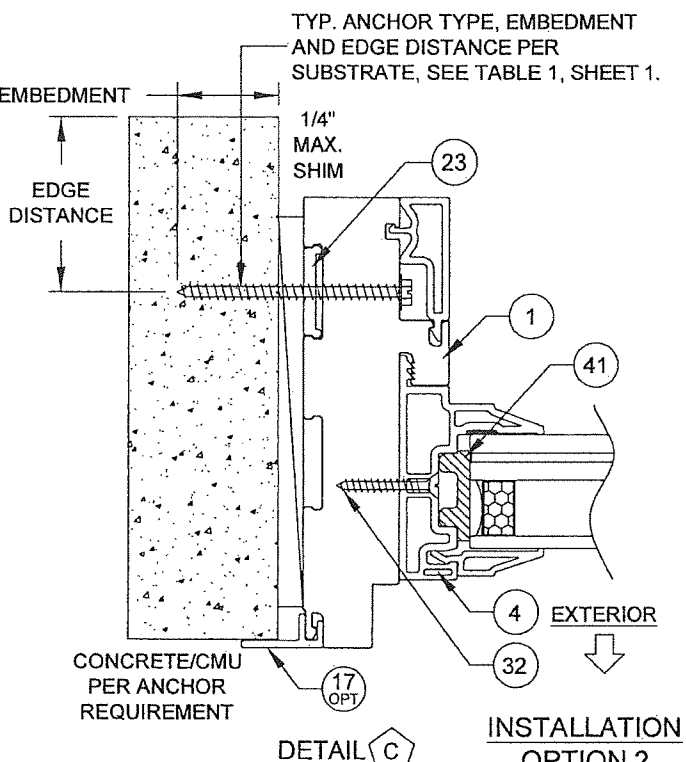
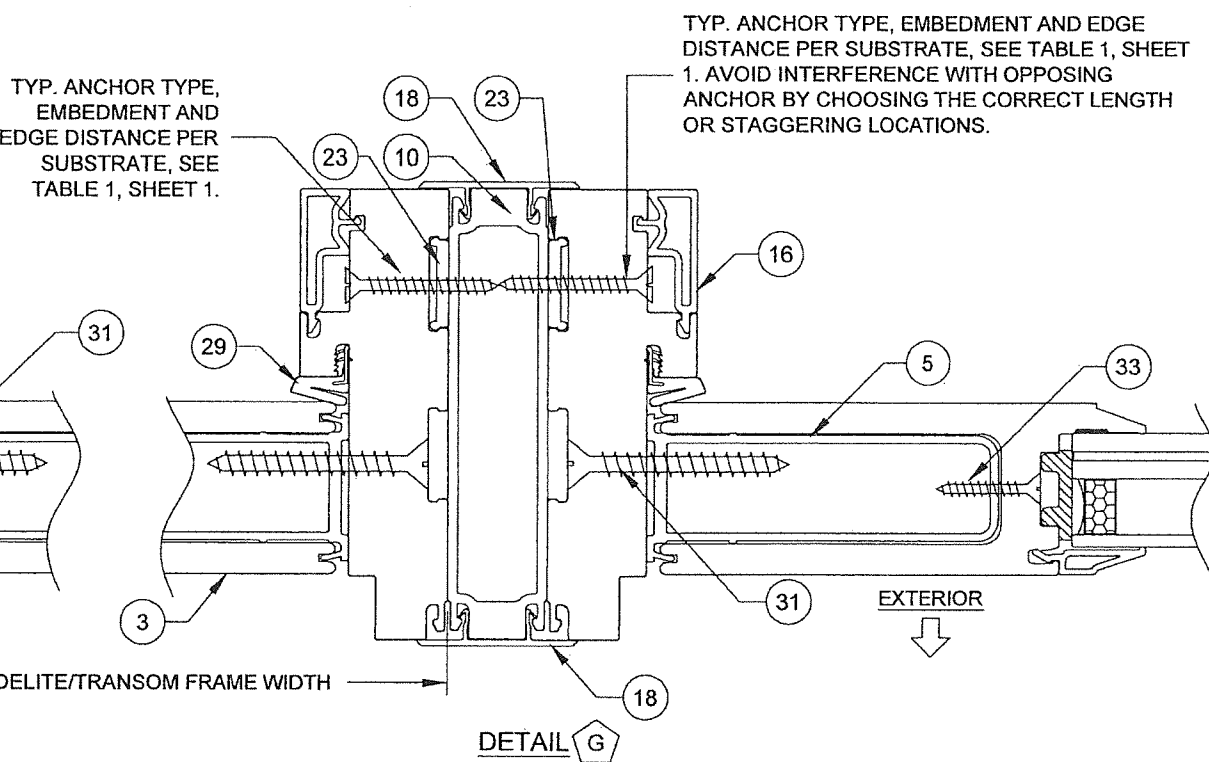
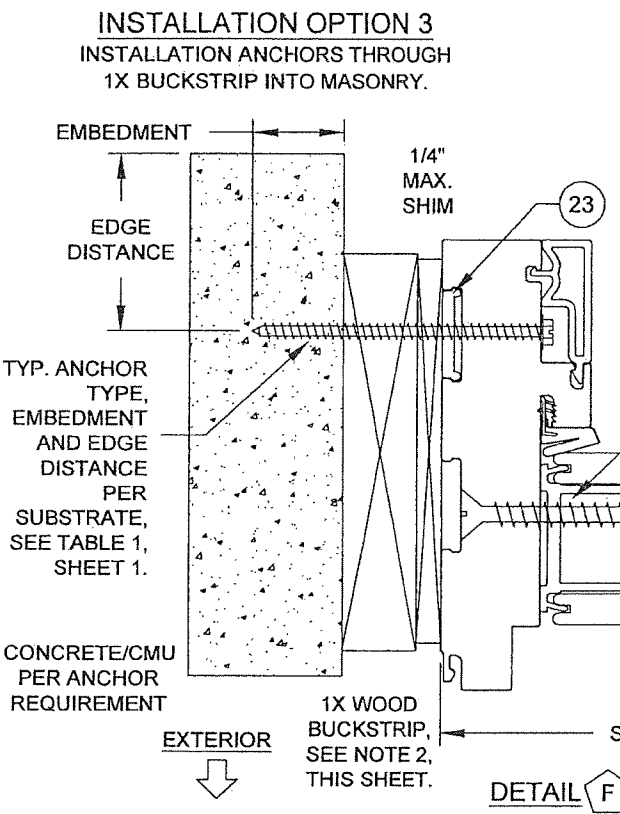
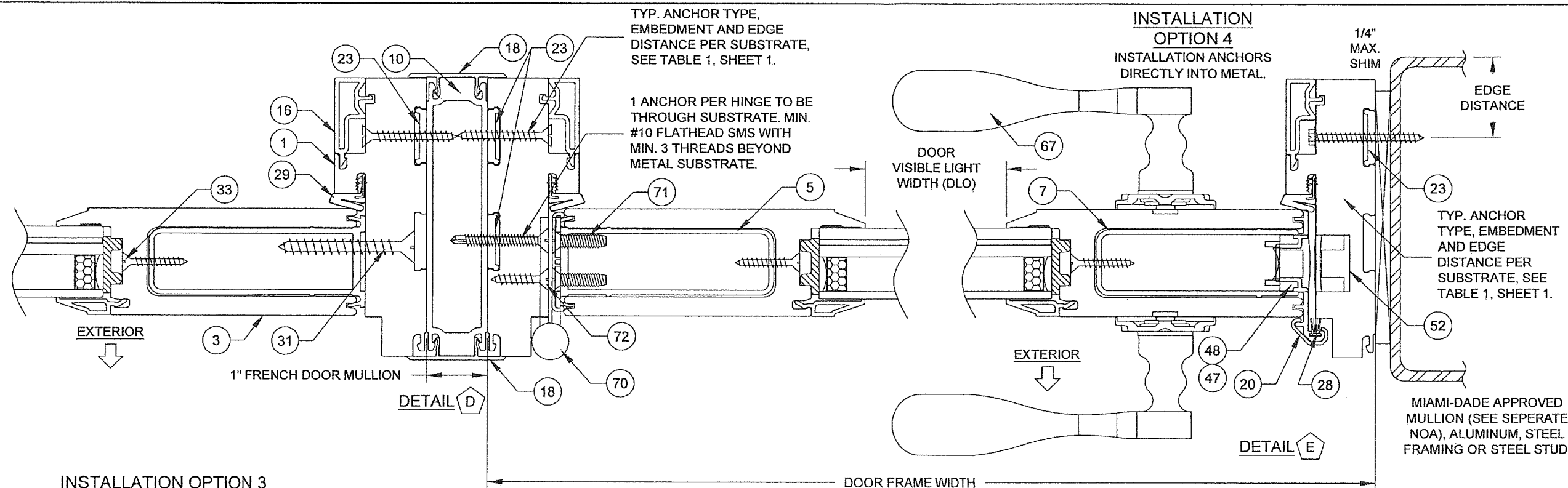
PRODUCT REVIEW
 as complying with the Florida
 Building Code
 Acceptance No. 2a-0427-07
 Expiration Date 1/23/24
 Anthony Lynn Miller
 Professional Engineer

Rev. D) NO CHANGES THIS SHEET.
 AK - 4/9/20

PREPARED BY: A. LYNN MILLER, P.E.
 1070 TECHNOLOGY DRIVE
 N. VENICE, FL 34275, (941) 480-1600
 REGISTRATION #29296

CGI Windows and Doors, Inc. 3780 W. 104th Street Hialeah, FL 33018 Tel: 305.593.6590	VINYL FRENCH DOOR AND SLT/TR	J ROSOWSKI	5/7/13	D
Impact Resistant Windows & Doors WE'RE STRONGER™	INSTALLATION 1	FD-7700	7 OF 12	MD-7700.1
CGI	NTS	Scale	Sheet	DWC
Impact Resistant Windows & Doors WE'RE STRONGER™	FD-7700	Scale	Sheet	DWC





INSTALLATION NOTES:

- 1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 1, SHEET 1. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE DOOR, SIDELITE OR TRANSOM.
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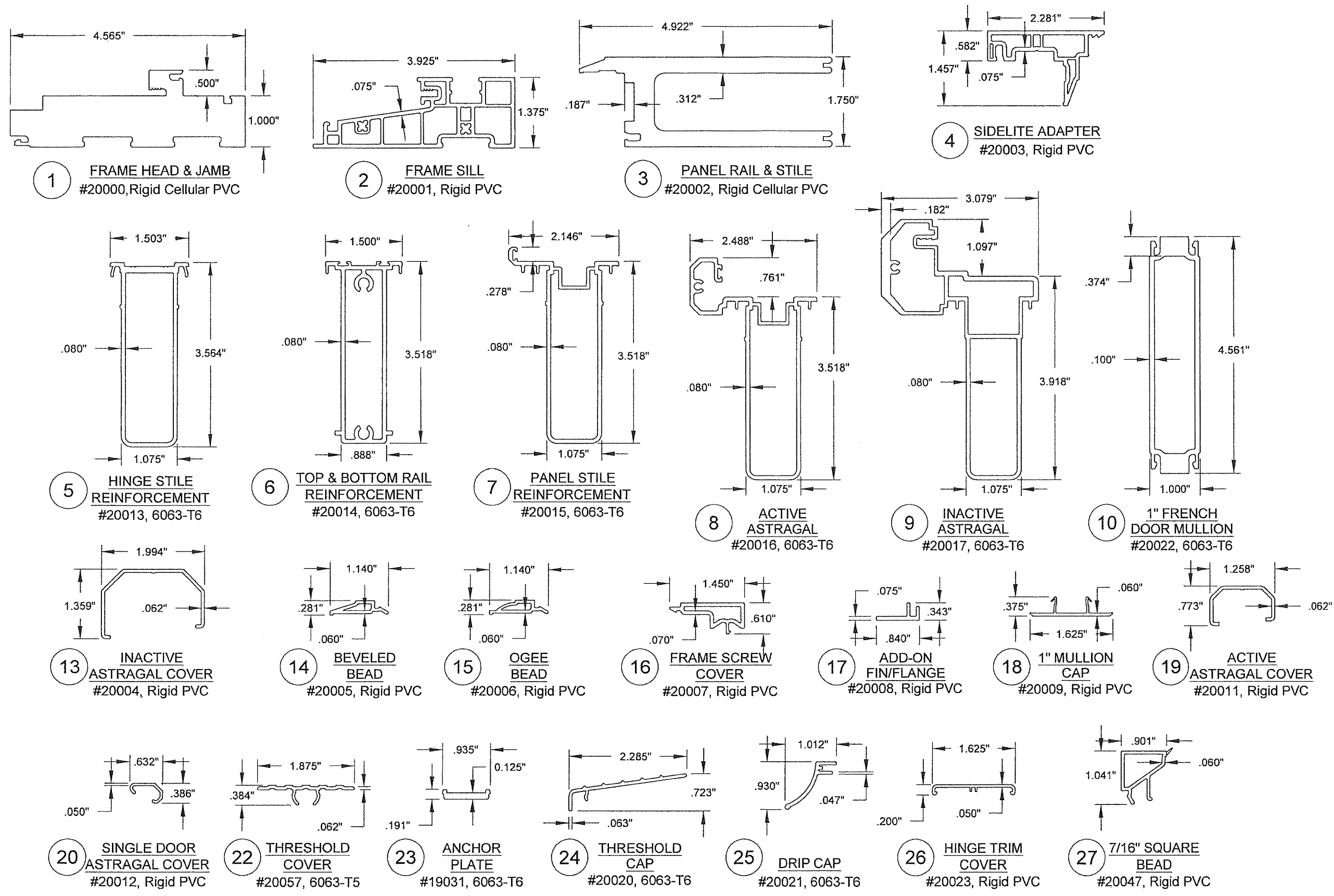
PRODUCT REVIEW
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Building Code
Acceptance No. 20-0427-07
Expiration Date 1/23/24
1/23/24

Rev.: D) NO CHANGES THIS SHEET.
AK - 4/9/20

PREPARED BY: A. LYNN MILLER, P.E.
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275, (941) 480-1600
REGISTRATION #29296

CGI Windows and Doors, Inc. 3780 W. 104th Street Hialeah, FL 33018 Tel: 305.593.6590	VINYL FRENCH DOOR AND SLT/TT	J ROSOWSKI	5/7/13	D
Impact Resistant Windows & Doors WE'RE STRONGER™	INSTALLATION 2	NTS	8 OF 12	FD-7700
ANTHONY LYNN MILLER No. 58705 02/20/20 STATE OF FLORIDA PROFESSIONAL ENGINEER	A. LYNN MILLER, P.E. P.E.# 58705	FD-7700	8 OF 12	MD-7700.1

ANTHONY LYNN MILLER
LICENSE
No. 58705
02/20/20
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 20-0427-07
Expiration Date 1/23/24
By: [Signature]
My Seal/Stamp/Product Control

Rev. D) NO CHANGES THIS SHEET.
AK - 4/9/20

PREPARED BY: A. LYNN MILLER, P.E.
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275, (941) 480-1600
REGISTRATION #29296

CGI Windows and Doors, Inc. 3780 W. 104th Street Hialeah, FL 33018 Tel: 305.593.6590	VINYL FRENCH DOOR AND SLT/TR	J ROSOWSKI	MD-7700.1	Rev.	D
				Date	5/7/13
				By	
				No. DWG	10 OF 12
Impact Resistant Windows & Doors WE'RE STRONGER™	EXTRUSIONS	FD-7700	NTS	Scale	
				Sheet	
				Series	
				Desc.	

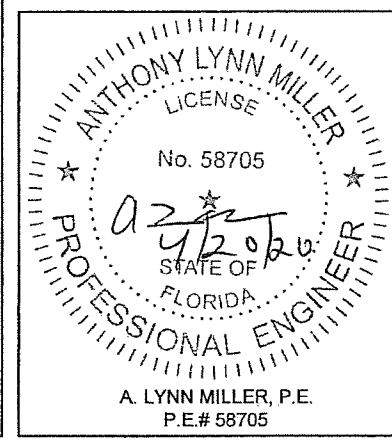


TABLE 11:

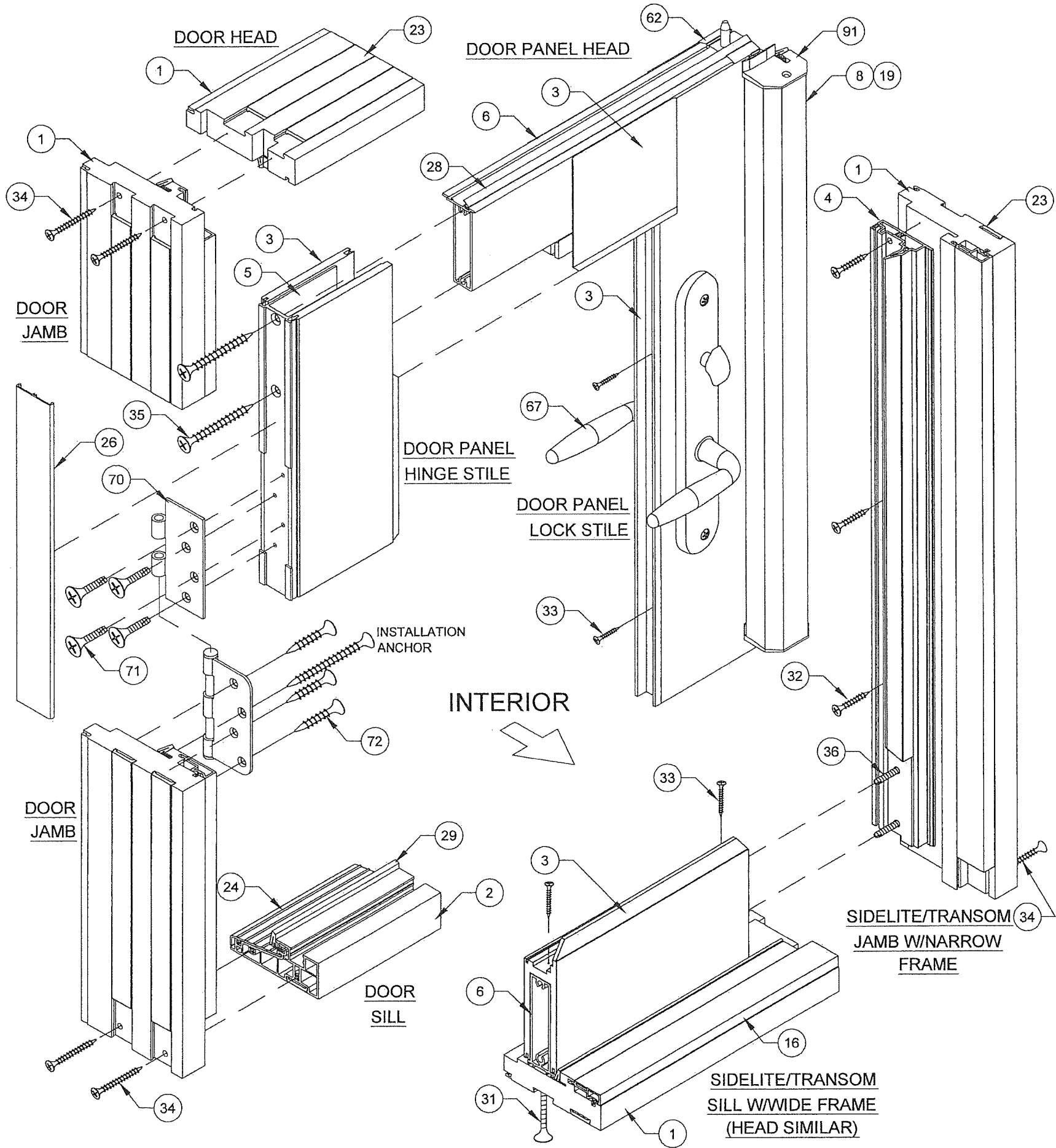
#	PGT Part #	Description	Material
1	20000	Door & Sidelite/Transom Main Frame	Cellular PVC
2	20001	Door Frame Sill	Rigid PVC
3	20002	Panel Stile & Rail	Cellular PVC
4	20003	Sidelite Adapter	Rigid PVC
5	20013	Hinge Stile Reinforcement	Alum., 6063-T6
6	20014	Panel Rail Reinforcement	Alum., 6063-T6
7	20015	Panel Stile Reinforcement	Alum., 6063-T6
8	20016	Active Astragal	Rigid PVC
9	20017	Inactive Astragal	Rigid PVC
10	20022	1" French Door Mullion	Alum., 6063-T6
13	20004	Inactive Astragal Cover	Rigid PVC
14	20005	1-1/16" Bevel Bead	Rigid PVC
15	20006	1-1/16" Ogee Bead	Rigid PVC
16	20007	Screw Cover	Rigid PVC
17	20008	Add-on Fin/Flange	Rigid PVC
18	20009	1" Mullion Cap	Rigid PVC
19	20011	Active Astragal Cover	Rigid PVC
20	20012	Single Door Astragal Cover	Rigid PVC
22	20057	Threshold Cover	Alum., 6063-T5
23	19031	Anchor Plate	Alum., 6063-T6
24	20020	Threshold Cover	Alum., 6063-T6
25	20021	Drip Cap	Rigid PVC
26	20023	Hinge Trim Cover	Rigid PVC
27	20047	7/16" Square Bead	Rigid PVC
28		Fin Weatherstrip	
29	1671/3	Frame Weatherstrip	
31	714FPT410XW	Frame-to-Wide Slab Screw: #14 X 1-1/2" Ph. FH, 16.625" O.C.	Stainless Steel
32	7S101X	Frame-to-Nar. Slab Screw: #10 X 1" Ph. FH, 28" O.C.	Stainless Steel
33	78X1FPT410	Reinforcement Screw: #8 X 1" Ph. FH, 18" O.C.	Stainless Steel
34	710X2FPAX	Frame Assembly Screw: #10 X 2" Ph. FH	Stainless Steel
35	714FPT410XW	W-W Slab Assembly Screw: #14 X 1-1/2" Ph. FH	Stainless Steel
36	71420X2.25	N-W Slab Assembly Screw: #14 X 2-1/4" Ph. FH	Stainless Steel
41	20026	Setting Block, 85 +/- 5 duro.	Vinyl
42		Backbedding: Dow-995 or GE-7700 or Dow 791 or Dow 983	Silicone
43		Argon Gas	
44	6HL5140	Hot Melt Butyl	
45	1652	Setting Block 9/16" x 4" x 3/16", 85 +/- 5 duro.	Neoprene
46	1614	Setting Block 1/2" x 1" x 1/8", 85 +/- 5 duro.	Neoprene
47 - 73 see Hardware BOM, Table 12, Sheet 12			
90	20033	Inactive Astragal Cap	Acetal
91	20035	Active Astragal Cap	Acetal

ALL RIGID PVC AND RIGID CELLULAR PVC BY ENERGI FENESTRATION SOLUTIONS USA, INC OR VISION EXTRUSIONS, LTD.

ANCHOR O.C. DIMENSIONS SHOWN AS MAXIMUM.

ANCHOR/SUBSTRATE MATERIAL PROPERTIES:

Material	Min. F _y	Min. F _u
#12 Steel Screw	92 ksi	120 ksi
#12 18-8 Screw	60 ksi	95 ksi
#12 410 Screw	90 ksi	110 ksi
Elco/DeWalt Aggre-Gator®	57 ksi	96 ksi
3/16" Elco UltraCon	155 ksi	177 ksi
3/16" DeWalt UltraCon+	117 ksi	164 ksi
1/4" Elco UltraCon	155 ksi	177 ksi
1/4" DeWalt UltraCon+	148 ksi	164 ksi
1/4" 410 SS Elco/Dewalt CreteFlex	127.4 ksi	189.7 ksi
6063-T5 Aluminum	16 ksi	22 ksi
A36 Steel	36 ksi	58 ksi
Gr. 33 Steel Stud	33 ksi	45 ksi



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A. Lynn Miller
Professional Engineer

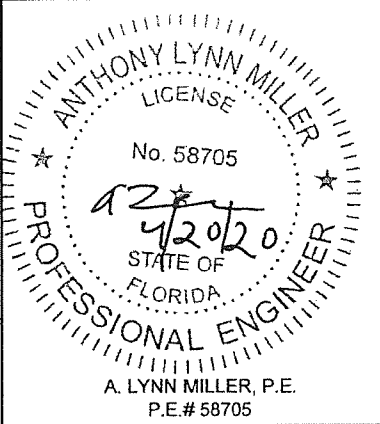
Rev: D) ADDED BACKBEDDING:
AK - 4/9/20

PREPARED BY: A. LYNN MILLER, P.E.
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275, (941) 480-1600
REGISTRATION #29296

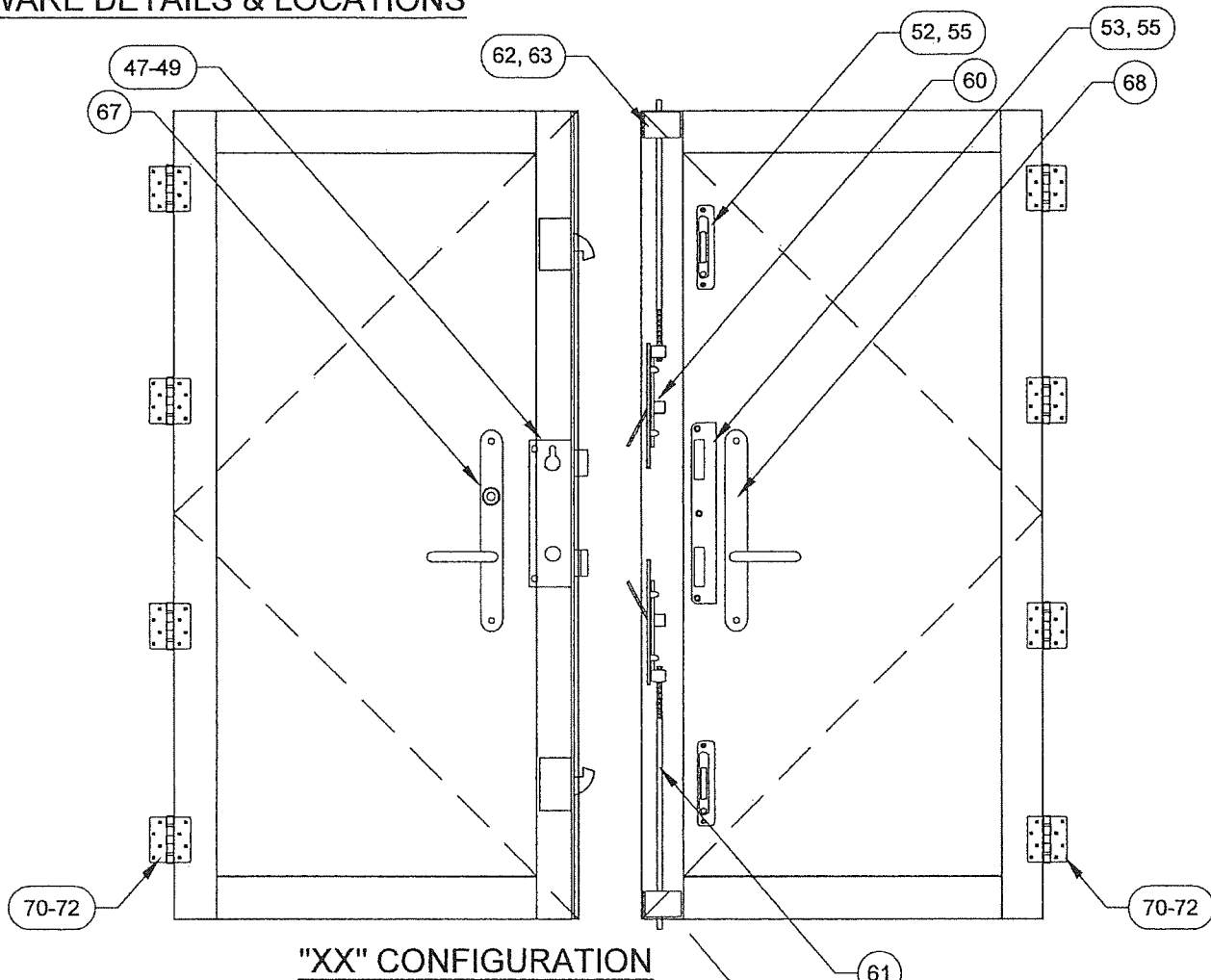
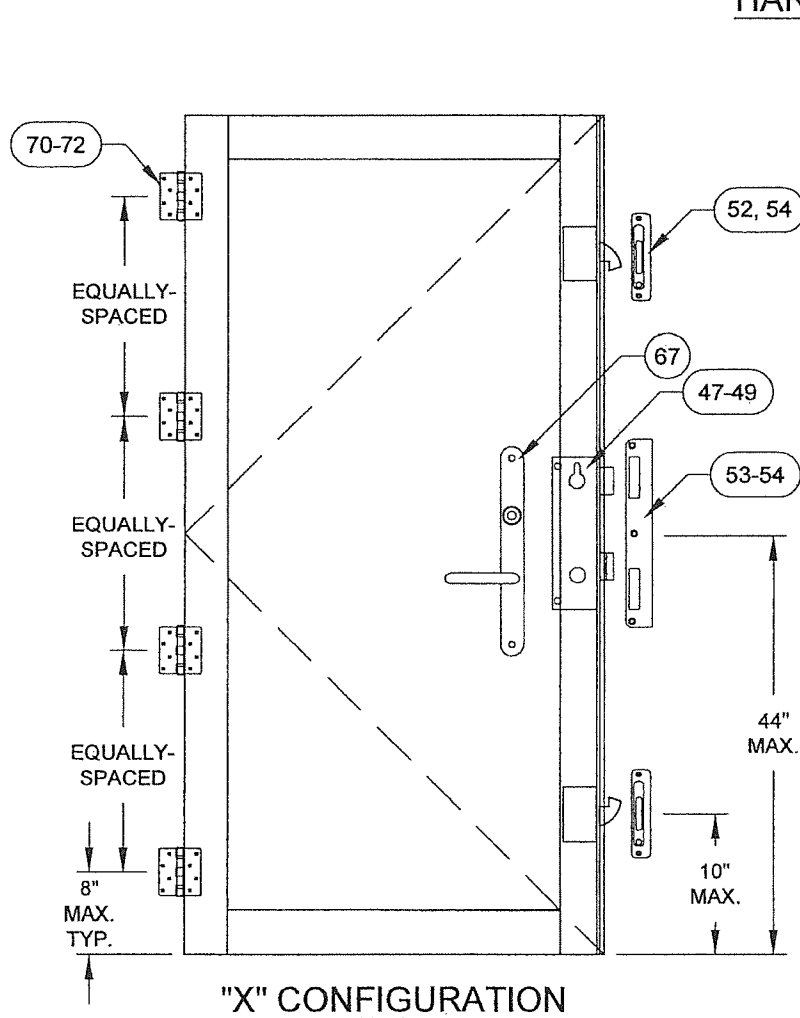
CGI Windows and Doors, Inc.
3780 W. 104th Street
Hialeah, FL 33018
Tel: 305.593.6590



Series	Desc.	Scale	Sheet	11 OF 12	DWG	No.	By	Date	Rev.
FD-7700	CORNER DETAILS AND BOM	NTS					J ROSOWSKI	5/7/13	D
VINYL FRENCH DOOR AND SLT/TR									

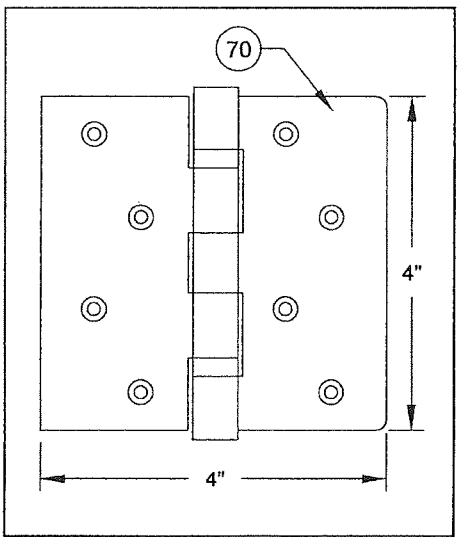


HARDWARE DETAILS & LOCATIONS



SEE DETAIL,
TOP LOCK
SIMILAR

HINGE DETAIL:



9/16"
BEYOND
PANEL

FLUSH BOLT DETAIL:

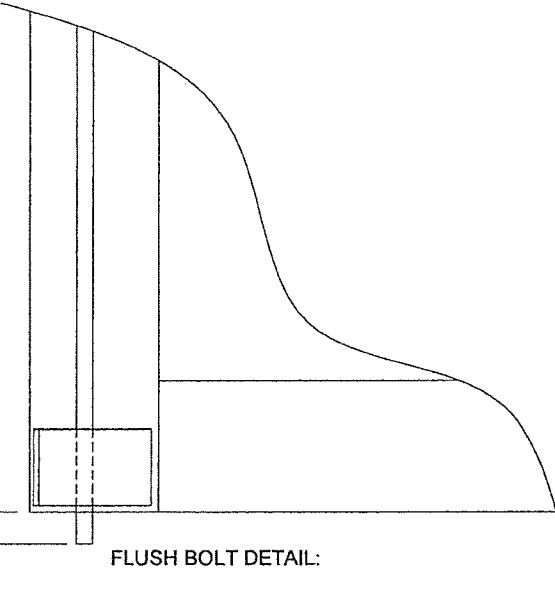


TABLE 12:

#	PGT Part #	Description	Material
47	666032701	P3000 3-PT Rhino Lock (6'8"), Amesbury Inc.	Stainless Steel
48	666032702	P3000 3-PT Rhino Lock (over 6'8"), Amesbury Inc.	Stainless Steel
49	71032X1FPFX	Rhino Lock Screw: 10-32 X 1" Phil. FH	Stainless Steel
52	20027	Adjustable Strike Plate Assembly, Amesbury Inc.	Stainless Steel
53	20028	Center Strike Plate Assembly, Amesbury Inc.	Stainless Steel
54	7S101X	Strike Plate Screw, (X): #10 X 1" Phil. FH	410 S.S.
55	78X12PFHUX	Strike Plate Screw, (XX): #8 X 1/2" Phil. FH	410 S.S.
60	7SB1202	Flush Bolt (XX)	
61	7803725	Flush Bolt Rod (XX)	
62	420034	Flush Bolt Guide (XX)	
63	7832X12FPXP	Flush Bolt Guide Screw: 8-32 X 1/2" Phil. FH	
64	48033N	Guide Pin (XX)	
65	78036	Flush Bolt Strike Plate (XX), Amesbury Inc.	Stainless Steel
66	7832X12FPXP	Flush Bolt Strike Plate Screw, (XX): #8 X 3/4" Phil. FH	410 S.S.
67	varies	Handle/Lever	
68	varies	Dummy Handle/Lever	
70	20025	Butt Hinge, Amesbury Inc.	Stainless Steel
71	71032X1FPFX	Hinge, Slab Screw: #10-32 X 1" Phil FH	Stainless Steel
72	7S101X	Hinge, Frame Screw: #10 X 1" Phil. FH	Stainless Steel

PRODUCT REVIEW
as complying with the Florida
Building Code
Acceptance No. 20-0427-07
Expiration Date 1/23/2024
L. Lynn Miller
Lynn Miller Product Control

Rev. D) NO CHANGES THIS SHEET.
AK - 4/9/20

PREPARED BY: A. LYNN MILLER, P.E.
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CGI Windows and Doors, Inc. 3780 W. 104th Street Hialeah, FL 33018 Tel: 305.593.6590	VINYL FRENCH DOOR AND SLT/TT	J ROSOWSKI	MD-7700.1	D
Impact Resistant Windows & Doors WE'RE STRONGER™	DESIGN PRESSURE TABLES 3	FD-7700	12 OF 12	NTS

ANTHONY LYNN MILLER
LICENSE
No. 58705
4/20/20
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705