

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 E**, Series titled "Vinyl French Door and SLT/TR", sheets 1 through 12 of 12, dated 05/07/13 and revised on 07/09/23, 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 & renews NOA# 20-0427.07 (PLA 23-0717.01) and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4, E-5, E-6 and E-7, as well as approval document mentioned above.

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



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NOA No. 23-0717.03 Expiration Date: January 23, 2029 Approval Date: August 03, 2023 Page 1

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)

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Ishaq I. Chanda, P.E. Product Control Unit Supervisor NOA No. 23-0717.03 Expiration Date: January 23, 2029 Approval Date: August 03, 2023

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 202-943) 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

- 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**.

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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)

- 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)
- Quanex Part <u>Super Spacer Standard</u> 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 <u>Duraseal</u> complying with ASTM C518 Thermal Conductivity 2.22 BTUin/ 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)*

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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. Evidence Submitted under previous approval

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.:

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B. TESTS (continue):

FTL-7897, PGT PW5520 PVC Fixed Window (unit 6 in proposal), dated 09/03/14 **FTL-20-2107.1**, PGT SGD780 Aluminum Sliding Glass Door (unit 7 in proposal) **FTL-20-2107.2**, PGT CA740 Alum. Outswing Casement Window (unit 8 in proposal) **FTL-20-2107.3**, PGT PW7620A Aluminum Fixed Window (unit 9 in proposal) and **FTL-20-2107.4**, PGT PW7620A Aluminum Fixed Window (unit 10 in proposal) dated 07/13/20, all signed and sealed by Idalmis Ortega, P.E

C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with FBC 7th Edition (2020), dated 04/20/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
- 2. Glazing complies with **ASTM E1300-04**, **-09**, **-12** and **-16**.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 19-0305.02 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear, and Color PVB Glass Interlayers", expiring on 07/08/24.
- 2. Notice of Acceptance No. 17-0808.02 issued to Kuraray America, Inc. for their "SentryGlas® (Clear and White) Glass Interlayers", expiring on 07/04/23.
- 3. Notice of Acceptance No. 18-1106.10 issued to Vision Extrusions Limited for their "Brown Coated (Painted or Laminated) White Rigid PVC Exterior Extrusions for Windows and Doors", expiring on 09/30/24.
- 4. Notice of Acceptance No. 18-1106.11 issued to Vision Extrusions Limited for their series "VE 1000 Tan 202 and lighter shades (Non–White) Rigid Cellular PVC Exterior Extrusions for Windows and Doors", expiring on 12/29/21.
- 5. Quanex Part <u>Super Spacer Standard</u> 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. 15-0409.05)
- 6. Quanex Part <u>Duraseal</u> complying with ASTM C518 Thermal Conductivity 2.22 BTUin/ 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. 15-0409.05*).

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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.

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3. NEW EVIDENCE SUBMITTED

A. DRAWINGS

- 1. Drawing No. **MD-7700.1 Rev E**, Series titled "Vinyl French Door and SLT/TR", sheets 1 through 12 of 12, dated 05/07/13 and revised on 07/09/23, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
- B. TESTS (submitted under previous approval)
 1. None.
- C. CALCULATIONS (submitted under previous approval)
 - 1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 19-0305.02 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 05/09/19, expiring on 07/08/24.
- 2. Notice of Acceptance No. 18-0725.11 issued to Kuraray America, Inc. for their "Kuraray SentryGlas[®] Xtra[™] (SGX[™]) Clear Glass Interlayer" dated 05/23/19, expiring on 05/23/24
- 3. NOA No. 21-1109.04 issued to Vision Extrusions Group Limited, for their "White Rigid PVC Exterior Extrusions for Windows and Doors", expiring on 09/30/24.
- 4. NOA No. 22-0104.04 issued to Vision Extrusions Group limited for their "Bronze and Lighter Shades of Cap Coated Rigid PVC Exterior Extrusions for Windows and Doors", expiring on 04/16/25.
- 5. NOA No. 20-0203.04 issued to ENERGI Fenestration Solutions USA, Inc. for their "Performance Core Rigid PVC Exterior Extrusions for Windows and Doors" dated 02/27/20, expiring on 04/16/25.

D. STATEMENTS

- 1. Statement letter of conformance, complying with FBC 7th Edition (2020) and the FBC 8th Edition (2023), dated 07-09-23, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
- 2. Statement letter of conformance, complying with FBC 6th Edition (2017) and the FBC 7th Edition (2020), dated March 10, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E. (submitted under previous approval)

G. OTHERS

 1. This NOA revises & renews NOA# 20-0427.07 (PLA #23-0717.01), expiring on 01/23/29.

 1. Shaq I. Chank

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 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 ULTRACON, DEWALT ULTRACON+, 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	
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CODES / STANDARDS USED:

- 2023 FLORIDA BUILDING CODE (FBC), 8TH EDITION
- 2020 FLORIDA BUILDING CODE (FBC), 7TH EDITION
- ASTM E1300-09 ANSI/AF&PA NDS-2018 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2020
- AISI S100-16
- AISC 360-16

Group	Anchor	Substrate							
Α	3/16" Ultracon+	Concrete (min. 3 ksi)							
^	5/10 01140011	Ungrouted CMU, (ASTM C-90)							
	#10 Steel SMS (G5)	P.T. Southern Pine (SG=0.55)							
	#10 SIEE SMS (G5) #10 410 S.S. SMS	Aluminum, 6063-T5*							
	#10 18-8 S.S. SMS	Steel, A36*							
В		Steel Stud, A653 Gr. 33*							
		P.T. Southern Pine (SG=0.55)							
	3/16" Ultracon+	Ungrouted CMU, (ASTM C-90)							
		Concrete (min. 3 ksi)							
	1/4" Ultracon+	Ungrouted CMU, (ASTM C-90)							
		P.T. Southern Pine (SG=0.55)							
	#12 Steel SMS (G5) #12 410 S.S. SMS	Aluminum, 6063-T5*							
	#12 18-8 S.S. SMS	Steel, A36*							
		Steel Stud, A653 Gr. 33*							
		P.T. Southern Pine (SG=0.55)							
с	1/4" Ultracon+	Grouted CMU, (ASTM C-90)							
		Concrete (min. 3 ksi)							
	1/4" 410 S.S.	Concrete (min. 3.35 ksi)							
	CreteFlex	Ungrouted CMU, (ASTM C-90)							
	1/4" 18-8 S.S.	P.T. Southern Pine (SG=0.55)							
	Aggre-Gator	Concrete (min. 3.27 ksi)							
		Ungrouted CMU, (ASTM C-90)							
D	1/4" Ultracon+	Concrete (min. 3 ksi)							
	1/4" 410 S.S. CreteFlex	Concrete (min. 3.35 ksi)							

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.

Type #	Description	Where Used:
1	1-3/16" Lami. IG (1/8" T - 11/16" Air - 1/8" ANN090" PVB - 1/8" ANN)	Door
2	1-3/16" Lami. IG (3/16" T - 5/8" Air - 1/8" ANN090" PVB - 1/8" ANN)	Door
3	1-3/16" Lami. IG (1/8" T - 9/16" Air - 3/16" ANN090" SG - 3/16" ANN)	Sidelite/Transom
4	1-3/16" Lami. IG (3/16" T - 1/2" Air - 3/16" ANN090" SG - 3/16" ANN)	Sidelite/Transom
5	1-3/16" Lami. IG (1/8" T - 9/16" Air - 3/16" ANN090" PVB - 3/16" ANN)	Sidelite/Transom
6	1-3/16" Lami. IG (3/16" T - 1/2" Air - 3/16" ANN090" PVB - 3/16" ANN)	Sidelite/Transom
7	7/16" Lami. (3/16" ANN090" PVB - 3/16" ANN)	Door/Sidelite/Transom

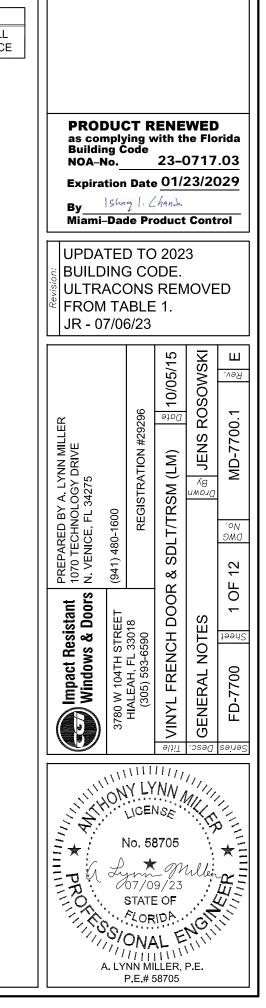
"ANN" = ANNEALED "T" = TEMPERED

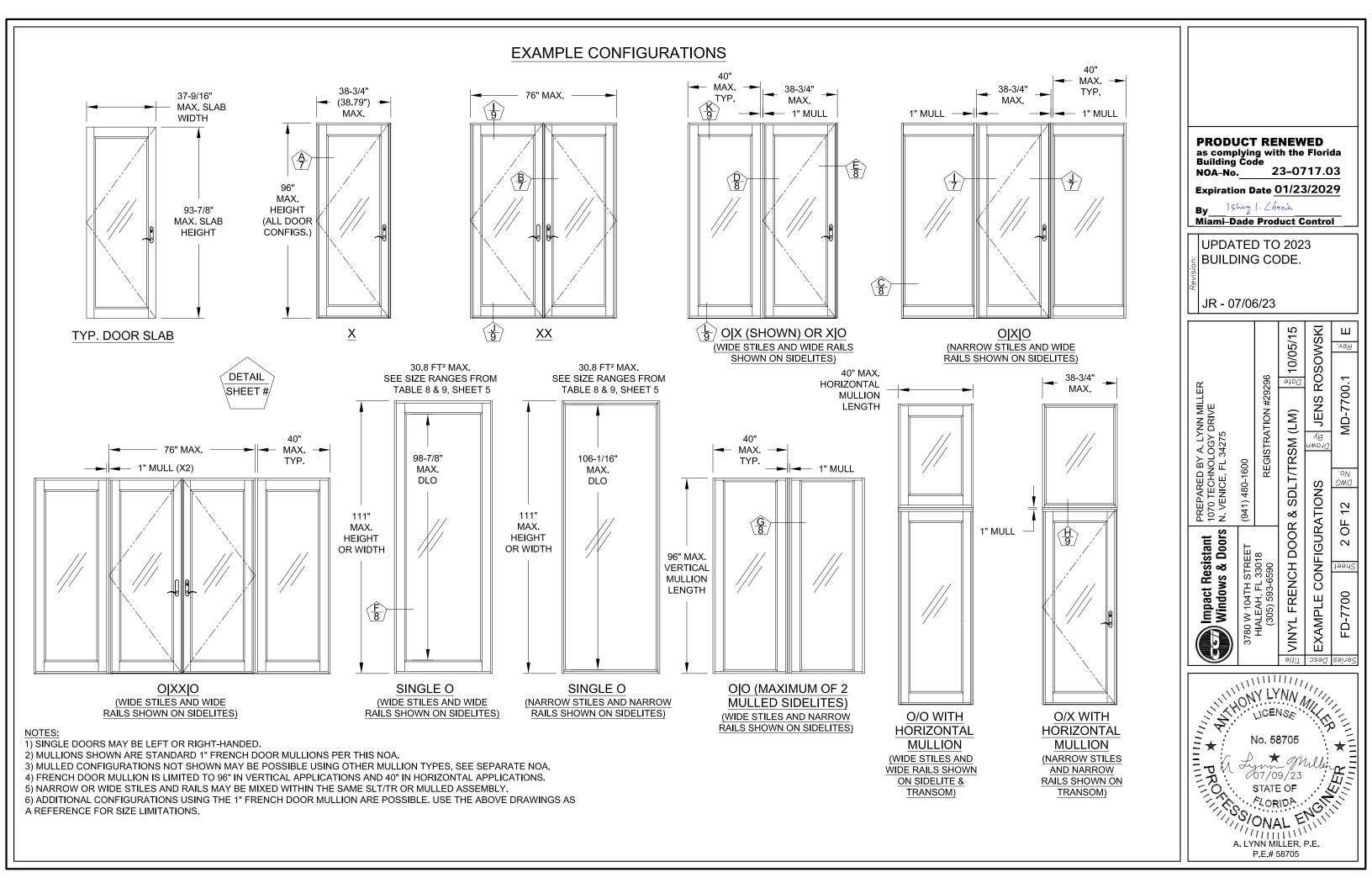
TABLE 1:

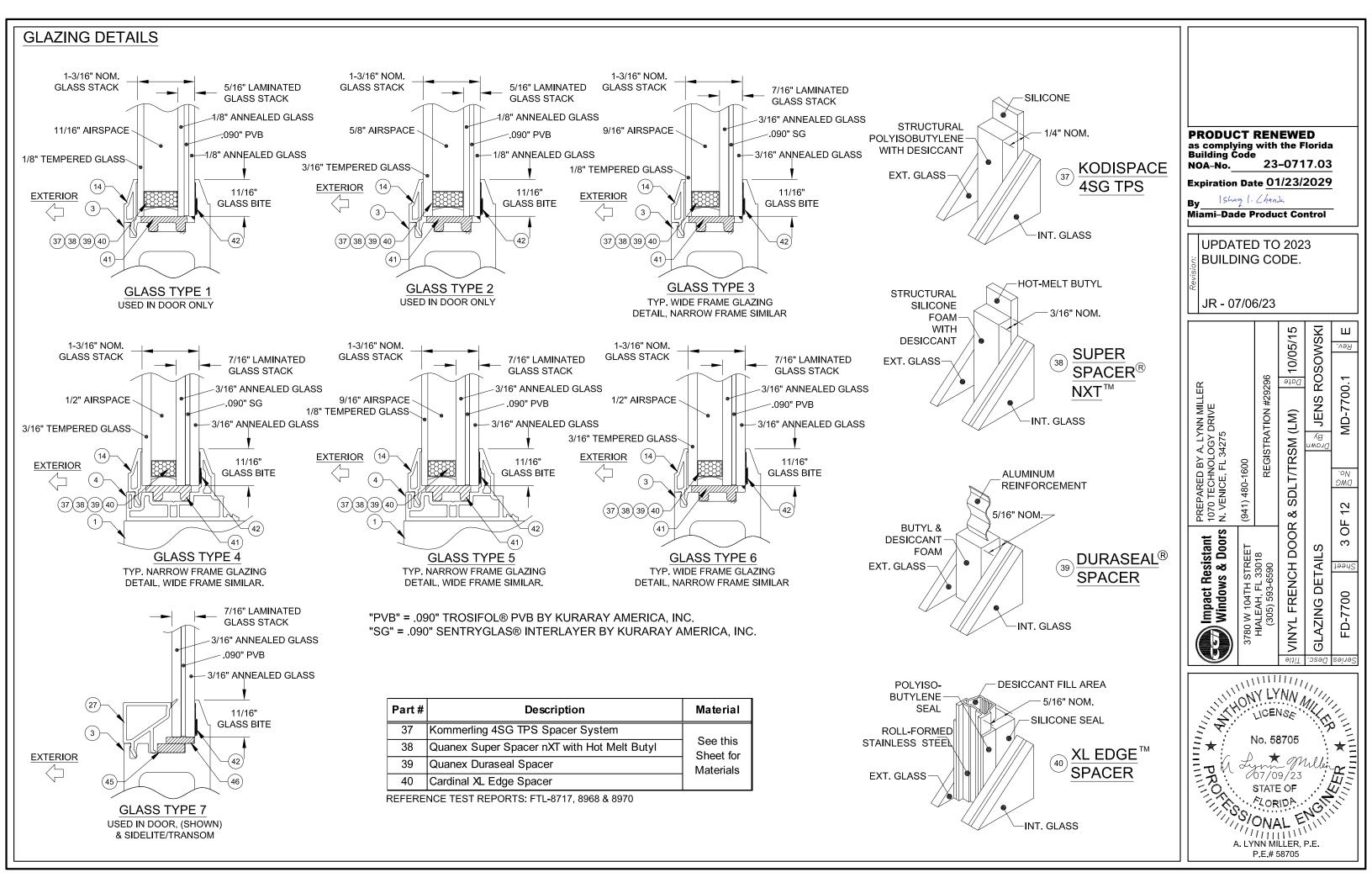
"PVB" = .090" TROSIFOL® PVB INTERLAYER BY KURARAY AMERICA, INC. "SG" = .090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC. SEE SHEET 3 FOR SPACER INFORMATION.

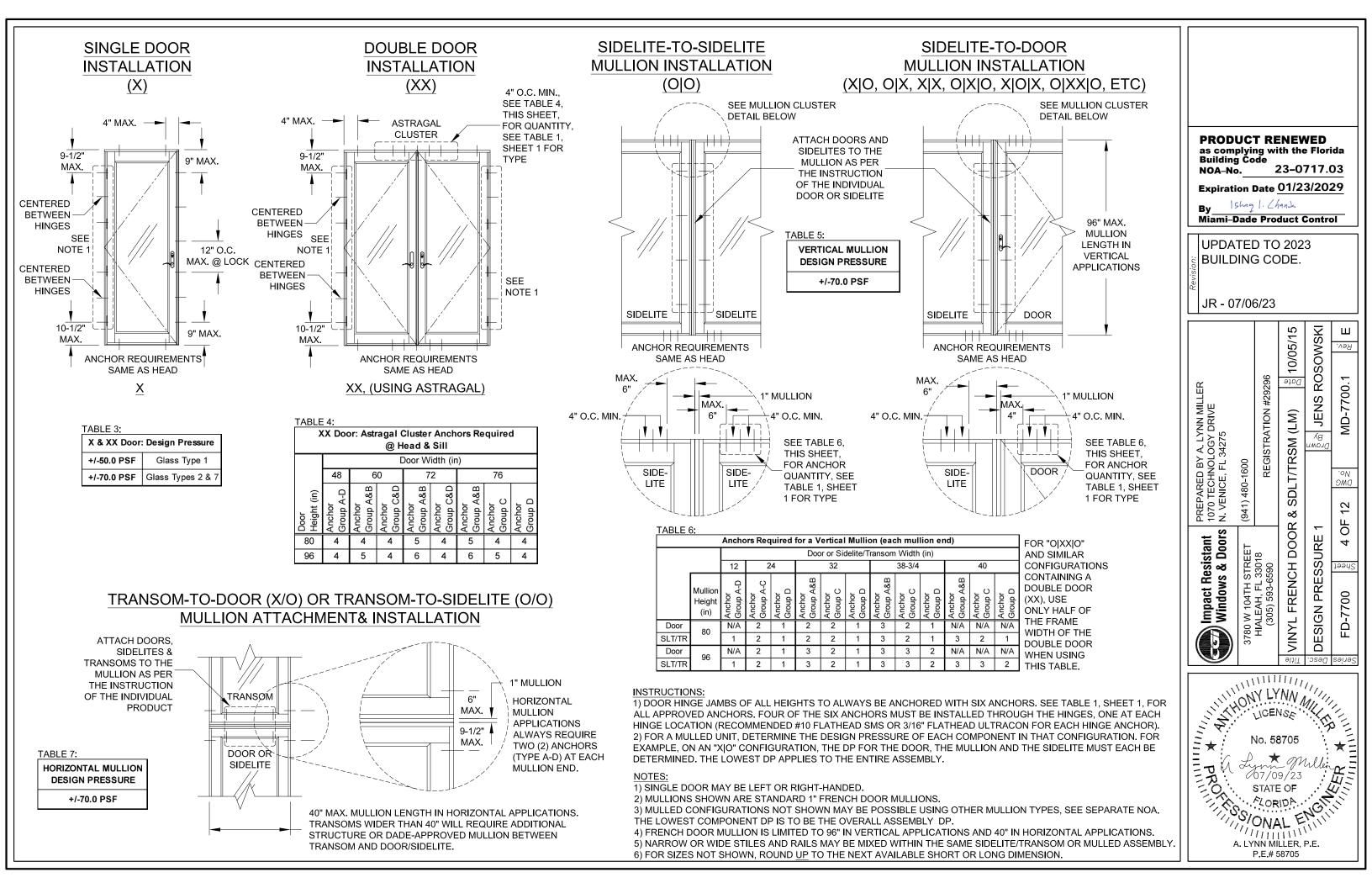
IMPACT RATING **RATED FOR LARGE & SMALL** MISSILE IMPACT RESISTANCE

Min.
Embedment
1-3/4"
1-1/4"
1-3/8"
0.063"
0.063"
0.063"
1-3/8"
1-1/4"
1-3/4"
1-1/4"
1-3/8"
0.071"
0.071"
0.071" (14 Ga)
1-3/8"
1-3/4"
1-3/8"
1-3/4"
1-1/4"
1-3/8"
1-3/8"
1-1/4"
1-3/8"
1-3/4"









					Sie	delite/Traı	nsom Desi	gn Pressu	re (+/-, pst) for Glass	s Types 3 8	& 4					SIDELITE	TRANSON
								Long S	ide (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" O.C. MAX.	
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	40" OR LESS	
36	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	۔ ــاــم ــــــــــــــــــــــــــــــــ	
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	+/-69.6	+/-68.5			28" O.C. MAX.	
(<u>i</u>) 44	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-69.6	+/-68.6	+/-67.7	+/-67.3				IF LONG SIDE IS 40" OR LESS	
	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-69.4	+/-68.7	+/-67.6	+/-66.5	+/-65.6					40 OR LESS	,
40 Side	+/-70	+/-70	+/-70	+/-70	+/-70	+/-69.9	+/-69.1	+/-67.6	+/-67	+/-65.8	+/-64.7							
Short 2	+/-70	+/-70	+/-70	+/-70	+/-70	+/-68.4	+/-67.6	+/-66	+/-65.4	+/-64.1								
ر 52	+/-70	+/-70	+/-70	+/-70	+/-69.1	+/-67.1	+/-66.2	+/-64.6	+/-63.9									
54	+/-70	+/-70	+/-70	+/-69.2	+/-68	+/-65.9	+/-65	+/-63.4									23-1/2" O.C. MAX.	
56	+/-70	+/-70	+/-69.7	+/-68.3	+/-67.1	+/-64.9	+/-63.9										IF LONG SIDE IS	
58	+/-70	+/-70	+/-69	+/-67.6	+/-66.3	+/-64											OVER 40"	
60	+/-70	+/-69.6	+/-68.5	+/-67	+/-65.6													
62	+/-70	+/-69.2	+/-68	+/-66.5														
63-3/	6 +/-70	+/-69.1	+/-67.9	+/-66.2													6" MAX.	
66-5/	8 +/-69.1	+/-68.9															(SHORT SIDE)	—

TABLE 9:

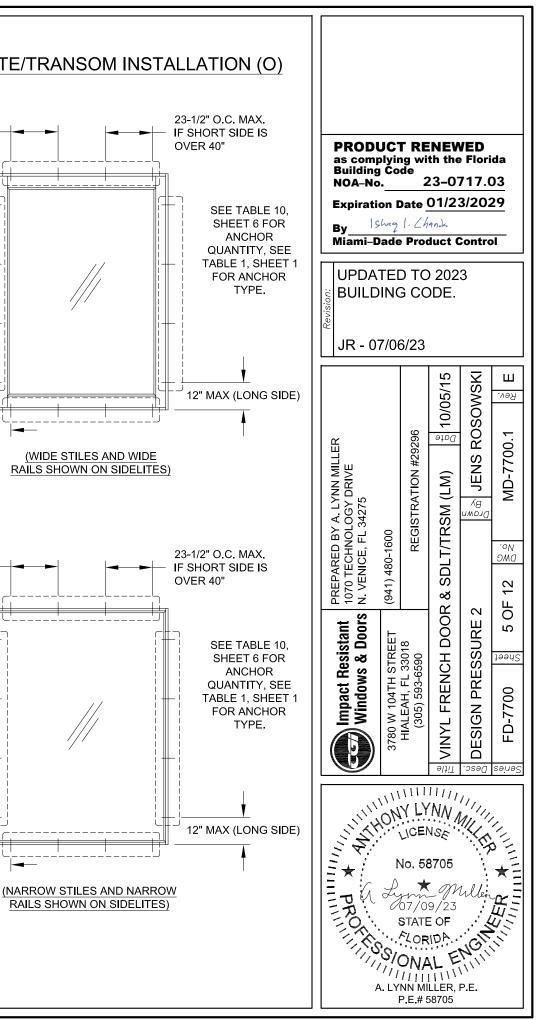
						Si	delite/Tra	nsom Des	sign Press	ure, psf fo	r Glass Ty	pes 5, 6 &	. 7					
									Long S	Side (in)								28" O.C. MA IF SHORT SIDE
		63-3/16	66-5/8	68	70	72	76	78	82	84	88	92	96	98	104	108	111	40" OR LES
	24	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-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	28" O.C. MAX.
3	8-3/4	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-69.9	+/-69	+/-68.3	+/-67.9				IF LONG SIDE IS
	40	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-69.8	+/-69.3	+/-68.3	+/-67.4	+/-66.7	+/-66.3				40" OR LESS
	42	+/-70	+/-70	+/-70	+/-70	+/-70	+/-69.5	+/-68.8	+/-67.6	+/-67	+/-66	+/-65.1						Å
Ê)	44	+/-70	+/-70	+/-70	+/-70	+/-69.1	+/-67.5	+/-66.8	+/-65.6	+/-65	+/-64							
	46	+/-70	+/-70	+/-69.4	+/-68.4	+/-67.4	+/-65.8	+/-65.1	+/-63.8	+/-63.2								1
	48	+/-70	+/-68.8	+/-68	+/-66.9	+/-66	+/-64.3	+/-63.5	+/-62.2									
	50	+/-69.9	+/-67.6	+/-66.8	+/-65.7	+/-64.7	+/-62.9	+/-62.1										23-1/2" O.C. MAX. IF LONG SIDE IS
	52	+/-69	+/-66.6	+/-65.7	+/-64.6	+/-63.6	+/-61.7											OVER 40"
	54	+/-68.3	+/-65.7	+/-64.8	+/-63.6	+/-62.6												
	56	+/-67.7	+/-65	+/-64.1	+/-62.8													1
	58	+/-67.3	+/-64.5	+/-63.5														6" MAX.
	60	+/-67																(SHORT SIDE)
	62	+/-66.9																1
63	3-3/16	+/-66.8																1

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.



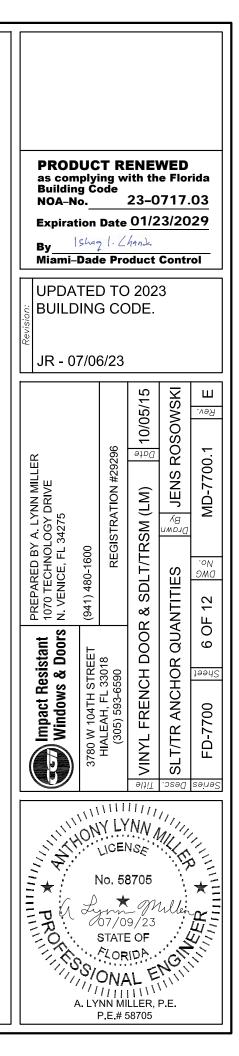
																Sid	elite/1	Frans	om A	nchor	Quar	ntity									_			
																			ng Side															
			63-3	3/16	66-	-5/8	6	68	7	0		72	-	76		78	8	32		34	8	88	9	2		96	98		104		1	08	11	1
			Anchor Group A	Anchor Groups B-D	Anchor Group A Anchor Groups B D	Anchor Group A	Anchor Group B	Anchor Groups C-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D																						
	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
	24	Long Side	4	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	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
	20	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 Long Side	3 5	3	3	3	3	3	3 5	3	3 5	3	3 6	3	3	3	3	3	3	3	3	3	3	3	3	3	3 3	3	3	3			┣───┼	
		Short Side	3	4	5	4	5	-	-					4	6	4		4			-			5	8	5	8 5	8	6	5			┣───┾	
	44	Long Side	5	3	3 5	3	3 5	3	3	3	3	3	3 6	3	3	3	3	3	3	3	3	3	3	3 5	3	3	3 3 8 5	-	_				\vdash	
		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		+	-				┢───┼	
(in)	46	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		-	_	-		-	├ ──┼	
de		Short Side	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	- Ŭ			-	-				├ ──┼	
Side	48	Long Side	5	4	5	4	5	4	6	4	6	4	6	4	6	4	7	4	7	5	7	5	7	5									\vdash	
Short		Short Side	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		-				+						
Ś	50	Long Side	5	4	5	4	5	4	6	4	6	4	6	4	6	4	7	4	7	5	7	5												
		Short Side	4	3	4	3	4	3	4	3	4	3	3	3	3	3	3	3	3	3													├ ──┼	
	52	Long Side	5	4	5	4	6	4	6	4	6	4	6	4	6	4	7	4	7	5														
	EA	Short Side	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3																
	54	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																					\vdash	
	62	Short Side	5	4	5	4	5	4	5	4																							\vdash	
		Long Side	5	4	6	4	6	4	6	4																							\vdash	
	63-3/16	Short Side	5	4	5	4	5	4	I																								\vdash	
		Long Side	5	4	6	4	6	4																									\vdash	
	66-5/8	Short Side	5	4	6	4			I										-									_					┣──┼	
		Long Side	6	4	6	4																												

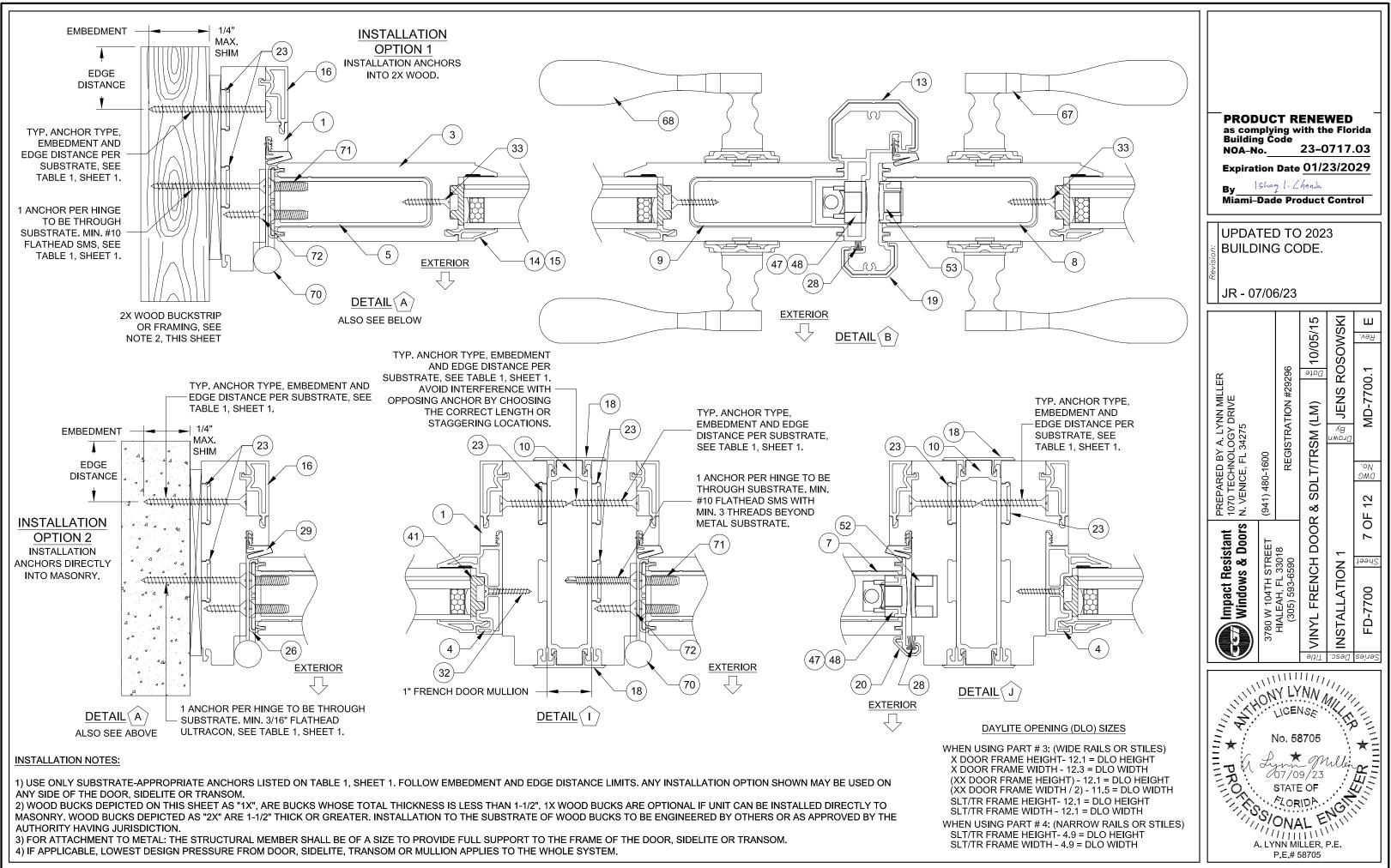
1) NARROW OR WIDE STILES AND RAILS MAY BE MIXED WITHIN THE SAME SIDELITE/TRANSOM OR MULLED ASSEMBLY.

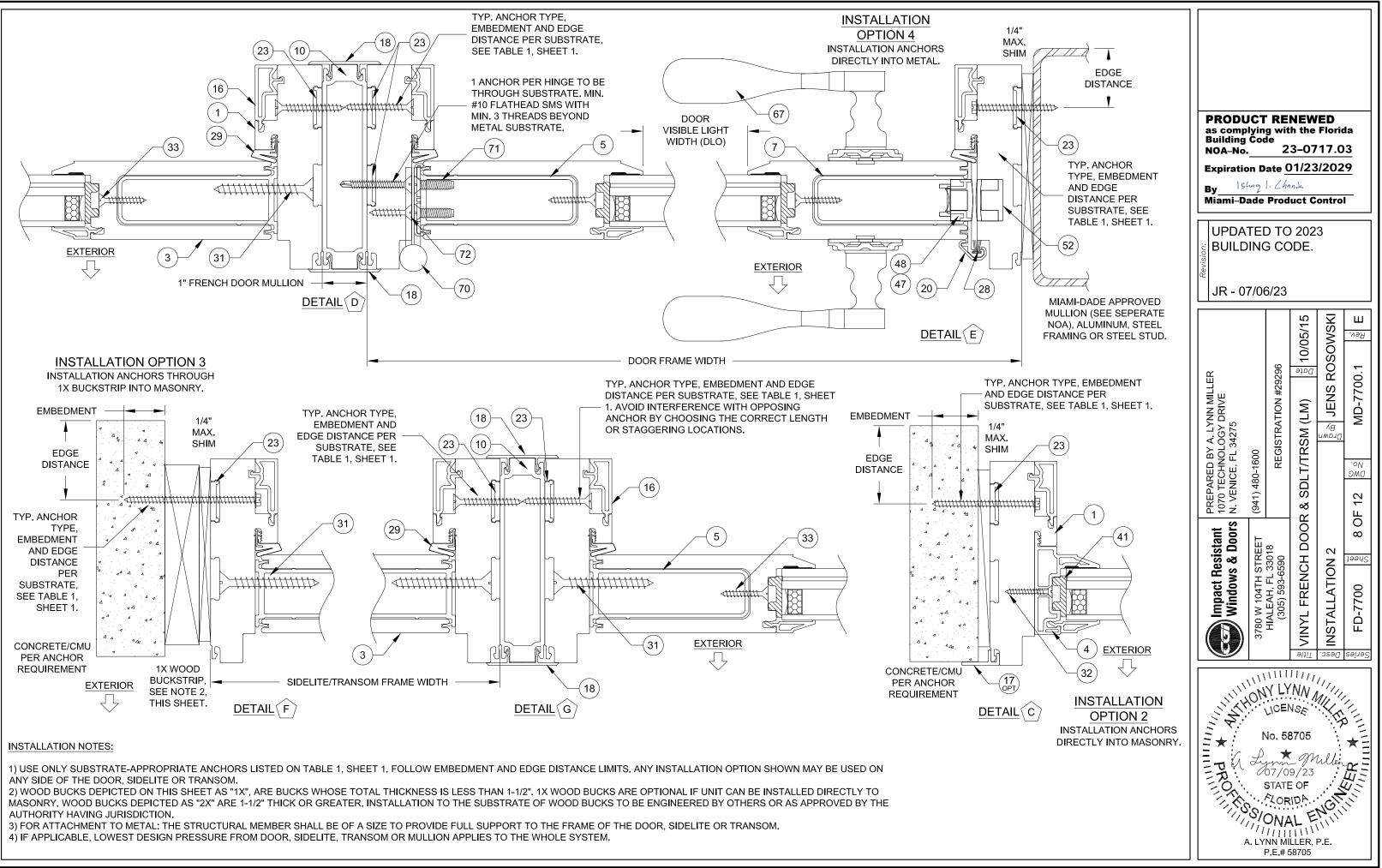
2) SIDELITE/TRANSOM MAY BE A SINGLE, STAND-ALONE UNIT.

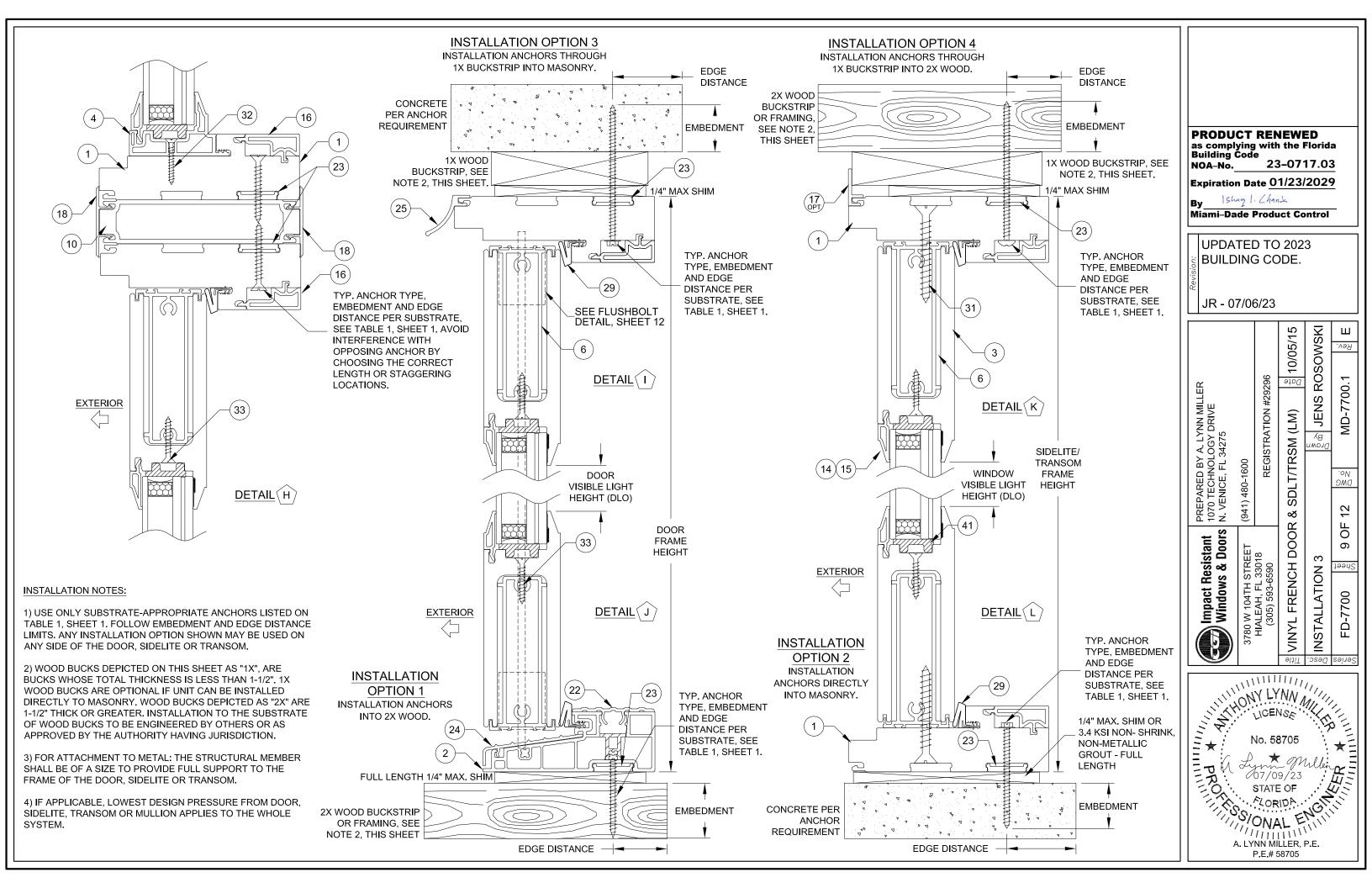
NOTES:

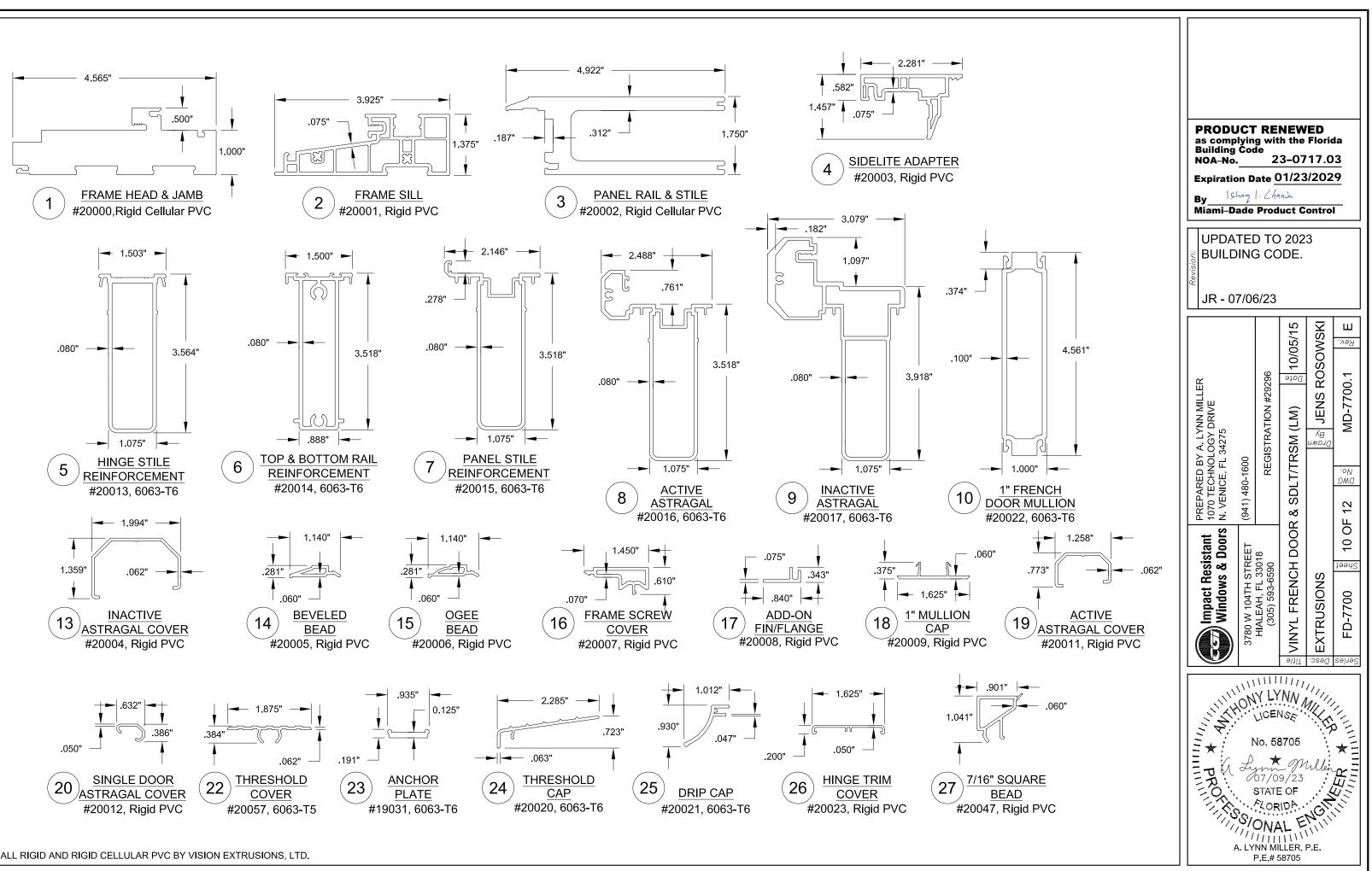
3) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG DIMENSION.











ALL RIGID AND RIGID CELLULAR PVC BY VISION EXTRUSIONS, LTD.

#	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-T
6	20014	Panel Rail Reinforcement	Alum., 6063-T
7	20015	Panel Stile Reinforcement	Alum., 6063-T
8	20016	Active Astragal	Rigid PVC
9	20017	Inactive Astragal	Rigid PVC
10	20022	1" French Door Mullion	Alum., 6063-T
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-T
23	19031	Anchor Plate	Alum., 6063-T
24	20020	Threshold Cover	Alum., 6063-T
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 Stee
32	7S101X	Frame-to-Nar. Slab Screw: #10 X 1" Ph. FH, 28" O.C.	Stainless Stee
33		Reinforcement Screw: #8 X 1" Ph. FH, 18" O.C.	Stainless Stee
34	710X2FPAX	Frame Assembly Screw: #10 X 2" Ph. FH	Stainless Stee
35		W-W Slab Assembly Screw: #14 X 1-1/2" Ph. FH	Stainless Stee
36	71420X2.25	N-W Slab Assembly Screw: #14 X 2-1/4" Ph. FH	Stainless Stee
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 Hardwar	e BOM, Table 12, Sheet 12	
90		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 MATERI	AL PROP	ERTIES:
Material	Min. F _v	Min. F _u

Material	Win. Fy	IVIIN. Fu
#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

