

# **H**ILLMAN ENGINEERING

## **AQUARIUS CONDOMINIUM**

**2751 SOUTH OCEAN DRIVE  
HOLLYWOOD, FLORIDA 33019**

## **40 YEAR RESTORATION PROJECT & RELATED WORK**

### **Wind Pressure Drawings:**

**Openings, Specs, NOA's / Product Approvals**

**ENGINEER'S PROJECT # 7478-16**

**April 26, 2017**

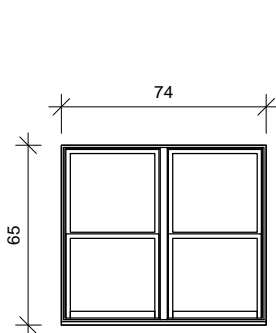
# **GLAZING ELEVATIONS**

## **UNITS A, B, C & D**

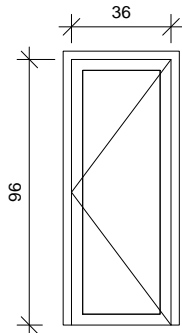
UNIT A					
Opening type	Size	Zone 4 (psf)		Zone 5 (psf)	
		max P +	min P -	max P +	min P -
A	74x65	60.8	61.7	60.8	109.1
B	34x96	62.8	63.1	N/A	N/A
C	164x88	54.7	57.6	54.7	92.9
D	144x88	55.4	58.1	55.4	94.8
E	96x88	57.6	59.6	N/A	N/A
F	111x65	58.5	61.2	N/A	N/A
G	144x65	57.1	59.2	N/A	N/A

NOTE: PER FBC, 5TH ED., 2014, SECT 2410 & CHAP 16.

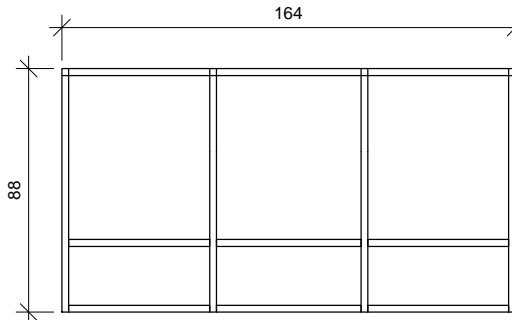
- A) EXTERIOR OPENINGS BELOW 30 FT ABOVE GRADE SHALL BE LARGE-MISSILE IMPACT RESISTANT &
- B) EXTERIOR OPENINGS ABOVE 30 FT ABOVE GRADE SHALL BE SMALL-MISSILE IMPACT RESISTANT



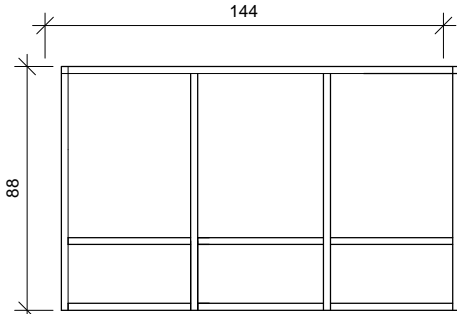
OPENING TYPE "A"  
2 (37 x 65) SH WINDOWS  
W/ 1 MULLION BAR  
ZONE 4 - MAX WIND PRES.  
+60.8 -61.7  
ZONE 5 - MAX WIND PRES.  
+60.8 -109.1



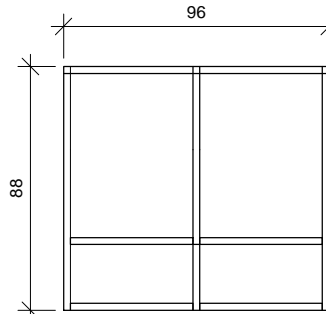
OPENING TYPE "B"  
HINGED FRENCH DOOR W/  
IMPACT GLAZING  
ZONE 4 - MAX WIND PRES  
+62.8 -63.1  
ZONE 5 - MAX WIND PRES  
N/A N/A



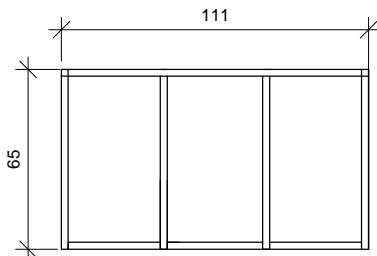
OPENING TYPE "C"  
3 (54 x 63) FIXED WINDOWS AT TOP & 3 (54 x 25)  
WINDOWS AT BOTTOM W/ 5 MULLIONS  
ZONE 4 - MAX WIND PRESSURE  
+54.7 -57.6  
ZONE 5 - MAX WIND PRESSURE  
+54.7 -92.9



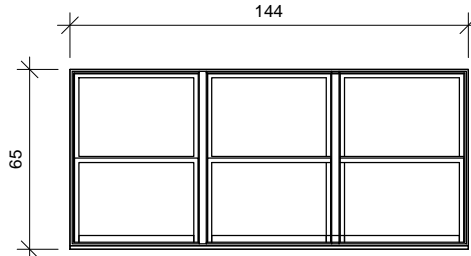
OPENING TYPE "D"  
3 (48 x 63) FIXED WINDOWS AT TOP & (48 x 25)  
WINDOWS AT BOTTOM W/ 5 MULLIONS  
ZONE 4 - MAX WIND PRESSURE  
+55.4 -58.1  
ZONE 5 - MAX WIND PRESSURE  
+55.4 -94.8



OPENING TYPE "E"  
2 (48 x 63) FIXED WINDOWS AT TOP & 2 (48 x 25)  
WINDOWS AT BOTTOM W/ 3 MULLIONS  
ZONE 4 - MAX WIND PRESSURE  
+57.6 -59.6  
ZONE 5 - MAX WIND PRESSURE  
N/A N/A



OPENING TYPE "F"  
3 (37 x 65) FIXED WINDOWS  
W/ 2 MULLIONS  
ZONE 4 - MAX WIND PRESSURE  
+58.5 -61.2  
ZONE 5 - MAX WIND PRESSURE  
N/A N/A



OPENING TYPE "G"  
3 (48 x 65) SH WINDOWS  
W/ 2 MULLIONS  
ZONE 4 - MAX WIND PRESSURE  
+57.1 -59.2  
ZONE 5 - MAX WIND PRESSURE  
N/A N/A

# UNIT "A" GLAZING (OPENINGS)

REVISIONS	DATE

**HILLMAN ENGINEERING INC.**  
 970 West McNab Rd. Suite 210, Ft. Lauderdale, FL 33309  
 954-975-9008 Fax: 954-975-9011 E-Mail: hillmanengineering.com  
 Construction Consultant, Claims, Engineering, Forensics, Accident Reconstruction, Inspections, Site & Building Design

**AQUARIUS**  
 Default Project Name Line 2  
 2751 South Ocean Drive  
 Hollywood, Florida 33019

DRAWN: J. Wells  
 CHECKED: H. Hillman  
 DATE: Da Month Year  
 SCALE: 3/16" = 1'-0"  
 JOB #: 7478-16

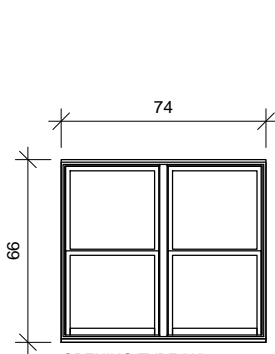
SHEET NAME  
**UNIT-A**  
 SHEET 1 OF 4

CERTIFICATE OF AUTHORIZATION #8785

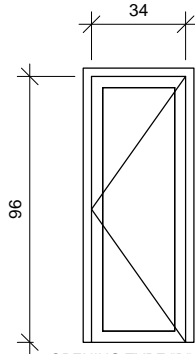
UNIT B					
Opening type	Size	Zone 4 (psf)		Zone 5 (psf)	
		max P +	min P -	max P +	min P -
A	74x65	60.8	61.7	60.8	109.1
B	34x96	62.8	63.1	N/A	N/A
C	135x88	55.7	58.3	55.7	95.7
D	90x88	58.1	59.8	N/A	N/A
E	111x65	58.5	61.2	N/A	N/A
F	150x65	56.8	59.1	N/A	N/A

NOTE: PER FBC, 5TH ED., 2014, SECT 2410 & CHAP 16.

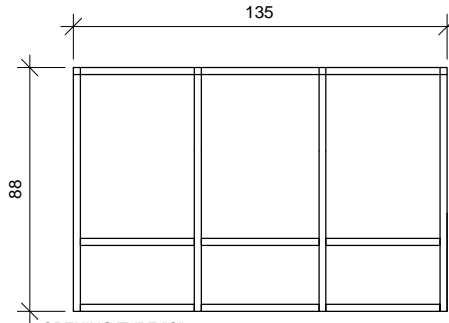
- A) EXTERIOR OPENINGS BELOW 30 FT ABOVE GRADE SHALL BE LARGE-MISSILE IMPACT RESISTANT &
- B) EXTERIOR OPENINGS ABOVE 30 FT ABOVE GRADE SHALL BE SMALL-MISSILE IMPACT RESISTANT



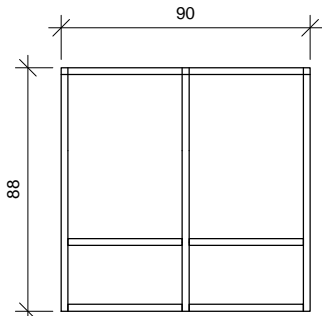
OPENING TYPE "A"  
2 (37 x 65) SH WINDOWS  
W/ 1 MULLION BAR  
ZONE 4 - MAX WIND PRES.  
+60.8 -61.7  
ZONE 5 - MAX WIND PRES.  
+60.8 -109.1



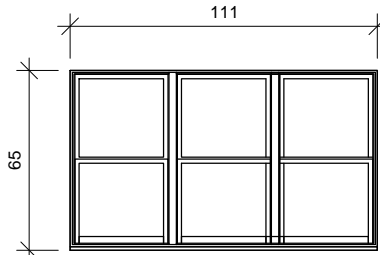
OPENING TYPE "B"  
HINGED FRENCH DOOR W/  
IMPACT GLAZING  
ZONE 4 - MAX WIND PRES  
+62.8 -63.1  
ZONE 5 - MAX WIND PRES  
N/A N/A



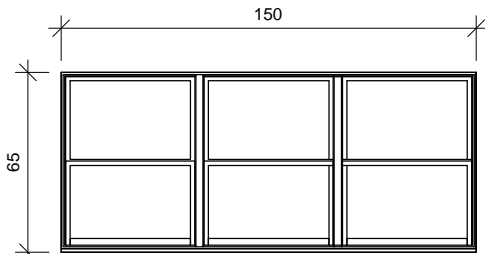
OPENING TYPE "C"  
3 (45 x 63) FIXED WINDOWS AT TOP & 3 (45 x 25)  
WINDOWS AT BOTTOM W/ 5 MULLIONS  
ZONE 4 - MAX WIND PRESSURE  
+55.7 -58.3  
ZONE 5 - MAX WIND PRESSURE  
+55.7 -95.7



OPENING TYPE "D"  
2 (48 x 63) FIXED WINDOWS AT TOP & 2 (48 x 25)  
WINDOWS AT BOTTOM W/ 3 MULLIONS  
ZONE 4 - MAX WIND PRESSURE  
+58.1 -59.8  
N/A N/A



OPENING TYPE "E"  
3(37 x 65) SH WINDOWS  
W/ 2 MULLIONS  
ZONE 4 - MAX WIND PRESSURE  
+58.5 -61.2  
ZONE 5 - MAX WIND PRESSURE  
N/A N/A



OPENING TYPE "F"  
3(50 x 65) SH WINDOWS  
W/ 2 MULLIONS  
ZONE 4 - MAX WIND PRESSURE  
+56.8 -59.1  
ZONE 5 - MAX WIND PRESSURE  
N/A N/A

## UNIT "B" GLAZING (OPENINGS)

REVISIONS	DATE

**HILLMAN ENGINEERING INC.**

970 West McNab Rd. Suite 210, Ft. Lauderdale, FL 33309  
954-975-9008 Fax: 954-975-9011 E-Mail: hillmanengineering.com  
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AQUARIUS  
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Hollywood, Florida 33019

DRAWN: J. Wells  
CHECKED: H. Hillman  
DATE: Da Month Year  
SCALE: 3/16" = 1'-0"  
JOB #: 7478-16

SHEET NAME

**UNIT-B**

SHEET 2 OF 4

CERTIFICATE OF AUTHORIZATION #8785

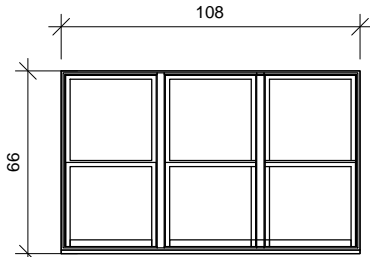
UNIT C					
Opening type	Size	Zone 4 (psf)		Zone 5 (psf)	
		max P +	min P -	max P +	min P -
A	108x65	58.7	60.3	N/A	N/A
B	74x65	60.8	61.7	N/A	N/A
C	34x96	62.8	63.1	N/A	N/A
D	144x96	55	57.8	N/A	N/A

NOTE: PER FBC, 5TH ED., 2014, SECT 2410 & CHAP 16.

- A) EXTERIOR OPENINGS BELOW 30 FT ABOVE GRADE SHALL BE LARGE-MISSILE IMPACT RESISTANT &
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CERTIFICATE OF AUTHORIZATION #8785

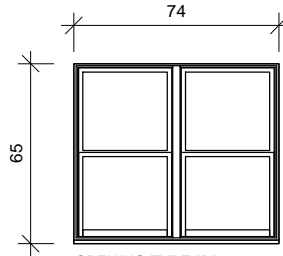
REVISIONS	DATE



OPENING TYPE "A"  
3(36 x 65) SH WINDOWS  
W/ 2 MULLIONS

ZONE 4 - MAX WIND PRESSURE  
+58.7 -60.3

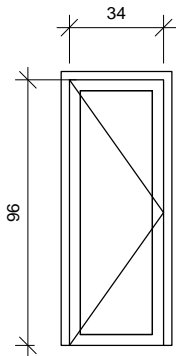
ZONE 5 - MAX WIND PRESSURE  
N/A N/A



OPENING TYPE "B"  
2 (37 x 65) SH WINDOWS  
W/ 1 MULLION BAR

ZONE 4 - MAX WIND PRES.  
+60.8 -61.7

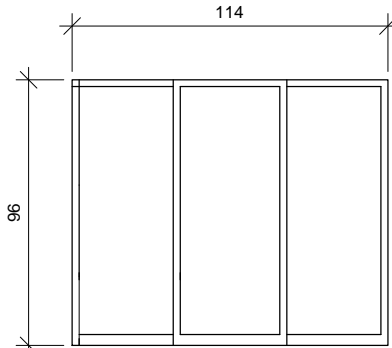
ZONE 5 - MAX WIND PRES.  
N/A N/A



OPENING TYPE "C"  
(34 x 96) HINGED FRENCH  
DOOR W/ IMPACT GLAZING

ZONE 4 - MAX WIND PRES  
+62.8 -63.1

ZONE 5 - MAX WIND PRES  
N/A N/A



OPENING TYPE "D"  
SLIDING GLASS DOOR OXO

ZONE 4 - MAX WIND PRES.  
+55.0 -57.8

ZONE 5 - MAX WIND PRES.  
N/A N/A

## UNIT "C" GLAZING (OPENINGS)



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JOB #: 7478-16

SHEET NAME

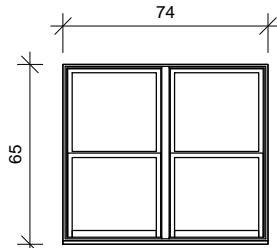
**UNIT-C**

SHEET 3 OF 4

UNIT D					
Opening type	Size	Zone 4 (psf)		Zone 5 (psf)	
		max P +	min P -	max P +	min P -
A	74x65	60.8	61.7	N/A	N/A
B	34x96	62.8	63.1	N/A	N/A
C	144x96	55	57.8	N/A	N/A
D	37x23	63.5	63.5	N/A	N/A
E	111x65	58.5	61.2	N/A	N/A

NOTE: PER FBC, 5TH ED., 2014, SECT 2410 & CHAP 16.

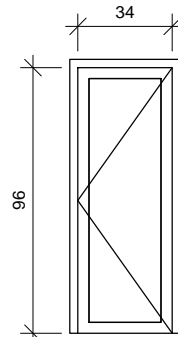
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OPENING TYPE "A"  
2 (37 x 65) SH WINDOWS  
W/ 1 MULLION BAR

ZONE 4 - MAX WIND PRES.  
+60.8 -61.7

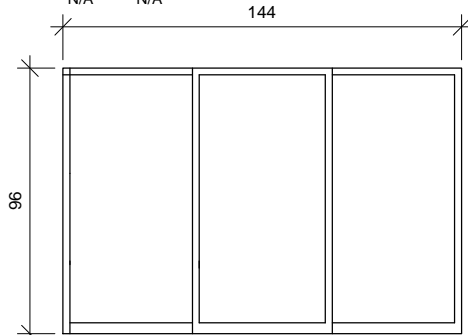
ZONE 5 - MAX WIND PRES.  
N/A N/A



OPENING TYPE "B"  
(34 x 96) HINGED FRENCH  
DOOR W/ IMPACT GLAZING

ZONE 4 - MAX WIND PRES  
+62.8 -63.1

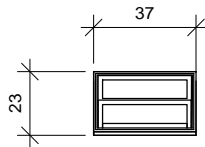
ZONE 5 - MAX WIND PRES  
N/A N/A



OPENING TYPE "C"  
SLIDING GLASS DOOR OXO

ZONE 4 - MAX WIND PRES.  
+55.0 -57.8

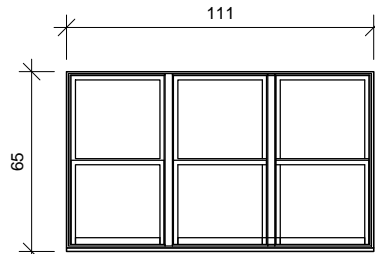
ZONE 5 - MAX WIND PRES.  
N/A N/A



OPENING TYPE "D"  
1 (37 x 23) SH WINDOWS

ZONE 4 - MAX WIND PRES.  
+63.5 -63.5

ZONE 5 - MAX WIND PRES.  
N/A N/A



OPENING TYPE "E"  
3 (37 x 65) SH WINDOWS  
W/ 2 MULLIONS

ZONE 4 - MAX WIND PRESSURE  
+58.5 -61.2

ZONE 5 - MAX WIND PRESSURE  
N/A N/A

## UNIT "D" GLAZING (OPENINGS)

REVISIONS	DATE

**HILLMAN ENGINEERING INC.**

970 West McNab Rd. Suite 210, Ft. Lauderdale, FL 33309  
 954-975-9008 Fax: 954-975-9011 E-Mail: hillmanengineering.com  
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 JOB #: 7478-16

SHEET NAME  
**UNIT-D**  
 SHEET 4 OF 4

CERTIFICATE OF AUTHORIZATION #8785

# **WINDOW & DOOR SPECIFICATIONS**

[Note: items in brackets [] are options or comments, to be deleted or to replace other text as necessary.]

## SECTION 08520

### ALUMINUM WINDOWS

#### **PART 1 - GENERAL**

##### 1.1 SECTION INCLUDES

- A. SH-800 Multi-Story aluminum single hung window.

##### 1.2 RELATED SECTIONS

- A. Section 07190 - Vapor and Air Barriers
- B. Section 07900 - Joint Sealants

##### 1.3 REFERENCES

- A. AAMA - American Architectural Manufacturers Association
  - 1. AAMA 103.3-93 "Procedural Guide for Aluminum and Vinyl Prime Windows and Glass Doors, Insulating Storm Products for Windows and Glass Doors and Thermal Performance of Windows and Glass Doors"
  - 2. AAMA 1302.5-76, paragraph 3.1.1 Test A through 3.1.5 Test G "Voluntary Specifications for Forced-Entry Resistant Aluminum Prime Windows"
- B. ANSI - American National Standards Institute
  - 1. ANSI/AAMA/NWDA 101/I.S.2-97 "Voluntary Specification for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors"
- C. ASTM - American Society for Testing and Materials
  - 1. ASTM C 1036-91 "Standard Specification for Flat Glass"
  - 2. ASTM E 283-96 "Standard Test Method for Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors"



3. ASTM E 330-96 "Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference"
4. ASTM E 331-96 "Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference"
5. ASTM E 547-96 "Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential"
6. ASTM F 588-85 "Standard Test Methods for Resistance of Window Assemblies to Forced Entry Excluding Glazing"

D. Florida Building Code

1. Protocol TAS-201 "Impact Test"
2. Protocol TAS -202 "Air, Water, Structural Test"
3. Protocol TAS -203 "Cyclic Wind Load Test"

#### 1.4 SYSTEM DESCRIPTION

- A. Configuration: flange construction single hung (single vent).
- B. Frame: 2.784" frame depth.
- C. Glazing: exterior glazed, with aluminum glazing bead, 3/16" [1/4"] [7/16" laminated with PVB [SGP] interlayer] [3/8" laminated] glass, factory glazed.
- D. [ Muntins: double applied colonial configuration (raised external muntin, interior flatbar) [custom: \_\_\_ lites across and \_\_\_ lites high] ]
- E. Performance Requirements
  1. When tested according to Miami-Dade County test protocols, meets the design pressures stated in the Miami-Dade County Notice(s) of Acceptance for this product.
  2. Air Infiltration: 0.3 (ft<sup>3</sup>)/min/(ft<sup>2</sup>) maximum when tested per ASTM E 283 at a 1.57 psf static air pressure difference.
  3. Water Resistance: no water leakage when tested per ASTM E 547 at a static air

pressure difference of 15% of the positive design pressure.

4. Uniform Load Structural: after testing per ASTM E 330 with a load equal to 150% of the positive design pressure, the unit must be operable, with a maximum permanent deformation in any member of 0.4% of the member's length.

## 1.5 SUBMITTALS

- A. Submit according to provisions of Section 01300.
- B. Product Data: provide manufacturer's standard details, specifications and catalog information, recommendations, and installation instructions.
- C. Shop Drawings: include unit elevations, details of all aluminum window sections, typical anchorage and installation details, type of glazing and window finish, and interface with other products.
- D. Finish Samples: manufacturer's available colors.
- E. Unit Samples: if required by Architect, provide scaled-down size operating samples of each unit type, to demonstrate design and construction of the unit and hardware.

## 1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: minimum five (5) years documented experience in the manufacture of aluminum windows as required for this project.
- B. Installer Qualifications: workmen properly trained and skilled in the installation and handling of aluminum windows as required for this project.

## 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store and handle windows and accessories in accordance with the manufacturer's instructions.
- B. Protect the products from damage due to the elements, construction traffic, or other hazards, from the time of arrival through the completion of the project.

## 1.8 WARRANTY

- A. Manufacturer: warrant material and workmanship on all products for a period of three (3) years.

## **PART 2 - PRODUCTS**

### 2.1 MANUFACTURERS

- A. PGT Industries, Inc. Series SH-800 Multi-Story single hung aluminum window.

### 2.2 MATERIALS

- A. Main frame members: extruded from 6063-T5 alloy, nominal 0.062” wall thickness. Meeting rail extruded from 6063HS-T54 alloy.
- B. Sash members: extruded from 6063-T5 aluminum alloy, nominal 0.062” wall thickness. Top rail extruded from 6063-T54 alloy.
- C. Hardware: two spiral torsion spring balances. One or two steel and tin-lead-zinc alloy cam lever sash locks on each vent locking beneath a groove in the fixed meeting rail (one sash lock if window width is less than 44”).
- D. Weatherstripping: sides and top of vent weatherstripped with .170 x .270 fin seal, bottom of vent weatherstripped with compressed finned vinyl bulb.
- E. Glazing attachment with silicone adhesive.
- F. Screens: tubular aluminum frame with fiberglass screen cloth, vinyl spline, two plastic ringed pull screen corner keys and two compression retention springs per screen.
- G. [ Muntins: extruded aluminum 6063-T5 alloy, tube construction (flat bar used for interior surface of double applied muntins) ]

### 2.3 ACCESSORIES

- A. [ Mullions: 1x2.75 tube mull [1x4 tube mull] [heavy duty wall] [specify mull] and associated mull clips. ]

## 2.4 FABRICATION

- A. Main frame and sash joints constructed with butt joint fit, assembled with phillips pan head screws, and factory sealed with Parbond or Schnee-Moorehead sealer.
- B. All hardware factory installed.
- C. Bug screens constructed and installed in unit prior to shipment.

## 2.5 FINISHES

- A. Paint: Unless otherwise noted on the drawing and with the exception of "GT's paint thickness specification range of 2.4 - 5.0 mils for exposed surfaces and 1.0 mil minimum on all other surfaces, AAMA 2603 coating specification applies.
- B. Powder coating currently used is Akzo Nobel Interpon D1000 (1 year) and D1010 (10-year) in white, bronze, and silver. Paint match will be necessary to ensure color consistency throughout product line. Please specify paint quoted to be as good or equal to the Akzo Nobel listed above.

## **PART 3 - EXECUTION**

### 3.1 EXAMINATION

- A. Verify that openings provide an acceptable anchoring surface, being clean, level, plumb, and dimensionally within the manufacturer's tolerance of clearance spacing.
- B. Correct unacceptable openings as required prior to installation.

### 3.2 INSTALLATION

- A. Install windows and accessories in accordance with approved shop drawings and manufacturer's recommendations.
- B. Securely fasten frames, and set units level, plumb, and square with respect to the surrounding structure, without twist or bow.
- C. Place insulation materials around shim spaces as required to ensure continuity of the

thermal barrier of the structure.

- D. Apply caulk all around between the aluminum frame and the structure, ensuring that a continuous airtight and watertight perimeter seal results. Leave exposed surfaces clean and free of caulk.

### 3.3 ADJUSTING AND CLEANING

- A. Ensure that units freely operate in a normal fashion, and that vents make proper contact with weatherstripping perimeter seal. Adjust frame, vent, or hardware as needed.
- B. Leave units thoroughly clean and free of dirt or other construction residue.

END OF SECTION

[Note: items in brackets [] are options or comments, to be deleted or to replace other text as necessary.]

## SECTION 08520

### ALUMINUM WINDOWS

#### **PART 1 - GENERAL**

##### 1.1 SECTION INCLUDES

- A. PW820 Multi-Story flanged [equal leg] inside glazed picture window.

##### 1.2 RELATED SECTIONS

- A. Section 07190 - Vapor and Air Barriers
- B. Section 07900 - Joint Sealants

##### 1.3 REFERENCES

- A. AAMA - American Architectural Manufacturers Association
  - 1. AAMA 103.3-93 "Procedural Guide for Aluminum and Vinyl Prime Windows and Glass Doors, Insulating Storm Products for Windows and Glass Doors and Thermal Performance of Windows and Glass Doors"
  - 2. AAMA 1302.5-76, paragraph 3.1.1 Test A through 3.1.5 Test B "Voluntary Specifications for Forced-Entry Resistant Aluminum Prime Windows"
- B. ANSI - American National Standards Institute
  - 1. ANSI/AAMA/NWDA 101/I.S.2-97 "Voluntary Specification for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors"
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  - 2. ASTM E 283-96 "Standard Test Method for Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors"

3. ASTM E 330-96 "Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference"
4. ASTM E 331-96 "Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference"
5. ASTM E 547-96 "Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential"
6. ASTM F 588-85 "Standard Test Methods for Resistance of Window Assemblies to Forced Entry Excluding Glazing"

D. Florida Building Code

1. Protocol TAS-201 "Impact Test"
2. Protocol TAS -202 "Air, Water, Structural Test"
3. Protocol TAS -203 "Cyclic Wind Load Test"

#### 1.4 SYSTEM DESCRIPTION

A. Configuration: flanged [equal leg] construction fixed glass aluminum picture window.

B. Frame: 2.784" frame depth.

C. Glazing: interior glazed, with aluminum glazing bead, 3/16" [1/4"] [tempered] [7/16" laminated] [9/16" laminated] glass, factory glazed.

D. [ Muntins: double-applied flatbar ]

E. Performance Requirements

1. When tested according to Miami-Dade County test protocols, meets the design pressures stated in the Miami-Dade County Notice(s) of Acceptance for this product.
2. Air Infiltration: 0.3 (ft<sup>3</sup>)/min/(ft<sup>2</sup>) maximum when tested per ASTM E 283 at a 1.57 psf static air pressure difference.
3. Water Resistance: no water leakage when tested per ASTM E 547 at a static air pressure difference of 15% of the positive design pressure.

4. Uniform Load Structural: after testing per ASTM E 330 with a load equal to 150% of the positive design pressure, the unit must be operable, with a maximum permanent deformation in any member of 0.4% of the member's length.

## 1.5 SUBMITTALS

- A. Submit according to provisions of Section 01300.
- B. Product Data: provide manufacturer's standard details, specifications and catalog information, recommendations, and installation instructions.
- C. Shop Drawings: include unit elevations, details of all aluminum window sections, typical anchorage and installation details, type of glazing and window finish, and interface with other products.
- D. Finish Samples: manufacturer's available colors.
- E. Unit Samples: if required by Architect, provide scaled-down size samples of each unit type, to demonstrate design and construction of the unit and hardware.

## 1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: minimum five (5) years documented experience in the manufacture of aluminum windows as required for this project.
- B. Installer Qualifications: workmen properly trained and skilled in the installation and handling of aluminum windows as required for this project.

## 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store and handle windows and accessories in accordance with the manufacturer's instructions.
- B. Protect the products from damage due to the elements, construction traffic, or other hazards, from the time of arrival through the completion of the project.

## 1.8 WARRANTY



- A. Manufacturer: warrant material and workmanship on all products for a period of three (3) years.

## **PART 2 - PRODUCTS**

### 2.1 MANUFACTURERS

- A. PGT Industries, Inc. Series PW-820 Multi-Story fixed glass aluminum window.

### 2.2 MATERIALS

- A. Frame members: extruded from 6063-T5 alloy, nominal 0.093” wall thickness.
- B. Glazing attachment with silicone adhesive.
- C. [ Muntins: extruded aluminum 6063-T5 alloy, flat bar construction ]

### 2.3 ACCESSORIES

- A. [ Mullions: 1x2.75 tube mull [1x4 tube mull] [heavy duty wall] [specify mull] and associated mull clips. ]

### 2.4 FABRICATION

- A. Main frame and sash joints constructed with butt joint fit, assembled with phillips pan head screws, and factory sealed with Parbond or Schnee Moorehead sealer.

### 2.5 FINISHES

- A. Paint: Unless otherwise noted on the drawing and with the exception of “GT’s paint thickness specification range of 2.4 - 5.0 mils for exposed surfaces and 1.0 mil minimum on all other surfaces, AAMA 2603 coating specification applies.
- B. Powder coating currently used is Akzo Nobel Interpon D1000 (1 year) and D1010 (10-year) in white, bronze, and silver. Paint match will be necessary to ensure color consistency throughout product line. Please specify paint quoted

to be as good or equal to the Akzo Nobel listed above.

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. Verify that openings provide an acceptable anchoring surface, being clean, level, plumb, and dimensionally within the manufacturer's tolerance of clearance spacing.
- B. Correct unacceptable openings as required prior to installation.

### **3.2 INSTALLATION**

- A. Install windows and accessories in accordance with approved shop drawings and manufacturer's recommendations.
- B. Securely fasten frames, and set units level, plumb, and square with respect to the surrounding structure, without twist or bow.
- C. Place insulation materials around shim spaces as required to ensure continuity of the thermal barrier of the structure.
- D. Apply caulk all around between the aluminum frame and the structure, ensuring that a continuous airtight and watertight perimeter seal results. Leave exposed surfaces clean and free of caulk.

### **3.3 ADJUSTING AND CLEANING**

- A. Leave units thoroughly clean and free of dirt or other construction residue.

**END OF SECTION**

[Note: items in brackets [] are options or comments, to be deleted or to replace other text as necessary.]

## SECTION 08120

### ALUMINUM DOORS AND FRAMES

#### **PART 1 - GENERAL**

##### 1.1 SECTION INCLUDES

- A. FD-750 aluminum outswing French Door.

##### 1.2 RELATED SECTIONS

- A. Section 07190 - Vapor and Air Barriers
- B. Section 07900 - Joint Sealants

##### 1.3 REFERENCES

- A. AAMA - American Architectural Manufacturers Association
  - 1. AAMA 103.3-93 "Procedural Guide for Aluminum and Vinyl Prime Windows and Glass Doors, Insulating Storm Products for Windows and Glass Doors and Thermal Performance of Windows and Glass Doors"
  - 2. AAMA 1302.5-76, paragraph 3.1.1 Test A through 3.1.5 Test B "Voluntary Specifications for Forced-Entry Resistant Aluminum Prime Windows"
- B. ANSI - American National Standards Institute
  - 1. ANSI/AAMA/NWWDA 101/I.S.2-97 "Voluntary Specification for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors"
- C. ASTM - American Society for Testing and Materials
  - 1. ASTM C 1036-91 "Standard Specification for Flat Glass"
  - 2. ASTM E 283-96 "Standard Test Method for Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors"

3. ASTM E 330-96 "Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference"
4. ASTM E 331-96 "Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference"
5. ASTM E 547-96 "Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential"
6. ASTM F 588-85 "Standard Test Methods for Resistance of Window Assemblies to Forced Entry Excluding Glazing"

D. Florida Building Code

1. Protocol TAS-201 "Impact Test"
2. Protocol TAS -202 "Air, Water, Structural Test"
3. Protocol TAS -203 "Cyclic Wind Load Test"

1.4 SYSTEM DESCRIPTION

- A. Configuration: aluminum outswing french door, single door (X) [double door (XX)] [with sidelites (OXO) [OXXO]].
- B. Frame: 3 5/8" jamb depth, standard outswing threshold ( 1/2" high exterior, 1 1/4" high interior).
- C. Glazing: exterior glazed, with aluminum glazing bead, 7/16" laminated] [7/8"laminated insulating 3/16" glass, 1/4" air 7/16" laminated].
- D. [ Muntins: double applied colonial configuration (raised ogee muntins) [custom: specify pattern and number of lites] [grids between glass (flat GBG)] [classic simulated divided lite (double ogee raised on exterior and interior with flat GBG) ]
- E. Performance Requirements
  1. When tested according to Miami-Dade County test protocols, meets the design pressures stated in the Miami-Dade County Notice(s) of Acceptance for this product.
  2. Air Infiltration: 0.3 (ft<sup>3</sup>)/min/ft maximum when tested per ASTM E 283 at a 1.57 psf static air pressure difference.

3. Water Resistance: no water leakage when tested per ASTM E 547 at a static air pressure difference of 15% of the positive design pressure.
4. Uniform Load Structural: after testing per ASTM E 330 with a load equal to 150% of the positive design pressure, the unit must be operable, with a maximum permanent deformation in any member of 0.4% of the member's length.

## 1.5 SUBMITTALS

- A. Submit according to provisions of Section 01300.
- B. Product Data: provide manufacturer's standard details, specifications and catalog information, recommendations, and installation instructions.
- C. Shop Drawings: include unit elevations, details of all aluminum door sections, typical anchorage and installation details, type of glazing and door finish, and interface with other products.
- D. Finish Samples: manufacturer's available colors.
- E. Unit Samples: if required by Architect, provide scaled-down size operating samples of each unit type, to demonstrate design and construction of the unit and hardware.

## 1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: minimum five (5) years documented experience in the manufacture of aluminum doors as required for this project.
- B. Installer Qualifications: workmen properly trained and skilled in the installation and handling of aluminum doors as required for this project.

## 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store and handle doors and accessories in accordance with the manufacturer's instructions.
- B. Protect the products from damage due to the elements, construction traffic, or other hazards, from the time of arrival through the completion of the project.

## 1.8 WARRANTY

- A. Manufacturer's Warranty: Furnish manufacturer's Limited Lifetime Warranty on aluminum windows and doors.

## **PART 2 - PRODUCTS**

### 2.1 MANUFACTURERS

PGT Industries, Inc. Series FD-750 aluminum outswing French Door.

### 2.2 MATERIALS

- A. Main frame members: extruded from 6063-T6 alloy, nominal 0.063" wall thickness.
- B. Door slab members: extruded from 6063-T5 aluminum alloy, nominal 0.075" wall thickness. 5/16-18 carbon steel threaded rod/nut assemblies in slab top and bottom rails for rigidity of slab.
- C. Hardware: continuous 6063-T6 aluminum alloy hinge per slab, [3-point] gear lock assembly, [for two panel doors: flushbolt lock assemblies to immobilize one panel if desired] [,handle trimsets (shipped separately)].
- D. Weatherstripping: with compressed foam-filled vinyl ½" doorseal on slab sides, top and bottom.
- E. Glazing attachment with silicone adhesive.
- F. [Muntins: double applied colonial configuration (raised muntins)] [Simulated Divided Lites:double applied colonial configuration (raised external muntin with internal muntin)] [custom: specify pattern and number of lites] ]

### 2.3 ACCESSORIES

- A. [ Mullions: standard I-beam assembly, e.g. to be used between sidelite and door]

## 2.4 FABRICATION

- A. Main frame and slab joints constructed with butt joint fit and assembled with phillips pan head screws.
- B. All hardware factory installed (except handle/trimsets).
- C. All door frames shipped KD (knocked down)

## 2.5 FINISHES

- A. Colors: Selected by Architect from the following:
  - 1. Standard coating color charts.
  - 2. Custom coating color charts.
  - 3. Color Name and Number:
- C. AAMA 2603 finish: Pretreatment plus thermosetting polyester powder coating.
- D. AAMA 2605 Duranar (or comparable) finish - pretreatment plus 2 coat, 50 and 70 percent Kynar base options.
- E. Clear Anodized Finish: NAAMM AA-C2241, 204R1 – class II – Minimum 0.4 mils, in natural aluminum color.
- F. ETERNA® Wood grain finish: Pretreatment plus base powder coat with preprinted film transfer with organic photosensitive pigments and cellulose resin thermoprint.

## **PART 3 - EXECUTION**

### 3.1 EXAMINATION

- A. Verify that openings provide an acceptable anchoring surface, being clean, level, plumb, and dimensionally within the manufacturer's tolerance of clearance spacing.
- B. Correct unacceptable openings as required prior to installation.

### 3.2 INSTALLATION

- A. Install doors and accessories in accordance with approved shop drawings and

manufacturer's recommendations.

- B. Securely fasten frames and jambs, and set units level, plumb, and square with respect to the surrounding structure, without twist or bow.
- C. Place insulation materials around shim spaces as required to ensure continuity of the thermal barrier of the structure.
- D. Apply caulk all around between the aluminum frame and the structure, ensuring that a continuous airtight and watertight perimeter seal results. Leave exposed surfaces clean and free of caulk.

### 3.3 ADJUSTING AND CLEANING

- A. Ensure that units freely operate in a normal fashion without scraping or excessive noise, and that door slabs make proper contact with weatherstripping perimeter seal. Adjust frame, door slab, or hardware as needed.
- B. Leave units thoroughly clean and free of dirt or other construction residue.

END OF SECTION



[Note: items in brackets [] are options or comments, to be deleted or to replace other text as necessary.]

## SECTION 08160

### ALUMINUM SLIDING GLASS DOORS

#### **PART 1 - GENERAL**

##### 1.1 SECTION INCLUDES

- A. SGD-780 aluminum sliding door

##### 1.2 RELATED SECTIONS

- A. Section 07190 - Vapor and Air Barriers
- B. Section 07900 - Joint Sealants

##### 1.3 REFERENCES

- A. AAMA - American Architectural Manufacturers Association

1. AAMA 103.3-93 "Procedural Guide for Aluminum and Vinyl Prime Windows and Glass Doors, Insulating Storm Products for Windows and Glass Doors and Thermal Performance of Windows and Glass Doors"
2. AAMA 1302.5-76, paragraph 3.1.1 Test A through 3.1.5 Test B "Voluntary Specifications for Forced-Entry Resistant Aluminum Prime Windows"

- B. ANSI - American National Standards Institute

1. ANSI/AAMA/NWDA 101/I.S.2-97 "Voluntary Specification for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors"

- C. ASTM - American Society for Testing and Materials

1. ASTM C 1036-91 "Standard Specification for Flat Glass"
2. ASTM E 283-96 "Standard Test Method for Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors"

3. ASTM E 330-96 "Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference"
4. ASTM E 331-96 "Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference"
5. ASTM E 547-96 "Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential"
6. ASTM F 588-85 "Standard Test Methods for Resistance of Window Assemblies to Forced Entry Excluding Glazing"

D. Florida Building Code

1. Protocol TAS-201 "Impact Test"
2. Protocol TAS -202 "Air, Water, Structural Test"
3. Protocol TAS -203 "Cyclic Wind Load Test"

1.4 SYSTEM DESCRIPTION

- A. Configuration: aluminum sliding glass door, \_\_\_ panel, \_\_\_ track, by-pass [ [1] [2] pocket,] \_\_\_ moveable panels (X panels), [ \_\_\_ fixed panels (O panels)]. [Countertop unit.] [Box screen]. Standard stack [Reverse stack] [Double interlock].
- B. Frame: \_\_\_\_\_ jamb depth.
- C. Glazing: exterior glazed, with aluminum glazing bead, 7/16" laminated] [1 1/16" laminated insulating 1/4" or 3/16" glass, 3/8" or 5/16" air 7/16" laminated].
- D. [ Muntins: double applied colonial configuration (raised ogee muntins) [custom: specify pattern and number of lites] [grids between glass (flat GBG)] [classic simulated divided lite (double ogee raised on exterior and interior with flat GBG) ]
- E. Performance Requirements
  1. When tested according to Miami-Dade County test protocols, meets the design pressures stated in the Miami-Dade County Notice(s) of Acceptance for this product.
  2. Air Infiltration: 0.3 (ft<sup>3</sup>)/min/ft maximum when tested per ASTM E 283 at a 1.57 psf static air pressure difference.

3. Water Resistance: no water leakage when tested per ASTM E 547 at a static air pressure difference of 15% of the positive design pressure.
4. Uniform Load Structural: after testing per ASTM E 330 with a load equal to 150% of the positive design pressure, the unit must be operable, with a maximum permanent deformation in any member of 0.4% of the member's length.

## 1.5 SUBMITTALS

- A. Submit according to provisions of Section 01300.
- B. Product Data: provide manufacturer's standard details, specifications and catalog information, recommendations, and installation instructions.
- C. Shop Drawings: include unit elevations, details of all aluminum door sections, typical anchorage and installation details, type of glazing and door finish, and interface with other products.
- D. Finish Samples: manufacturer's available colors.
- E. Unit Samples: if required by Architect, provide scaled-down size operating samples of each unit type, to demonstrate design and construction of the unit and hardware.

## 1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: minimum five (5) years documented experience in the manufacture of aluminum doors as required for this project.
- B. Installer Qualifications: workmen properly trained and skilled in the installation and handling of aluminum doors as required for this project.

## 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store and handle doors and accessories in accordance with the manufacturer's instructions.
- B. Protect the products from damage due to the elements, construction traffic, or other hazards, from the time of arrival through the completion of the project.

## 1.8 WARRANTY

- A. Manufacturer's Warranty: Furnish manufacturer's Limited Lifetime Warranty on aluminum windows and doors.

## **PART 2 - PRODUCTS**

### 2.1 MANUFACTURERS

- A. PGT Industries, Inc. Series SGD-780 WinGuard sliding glass door.

### 2.2 MATERIALS

- A. Main frame members: extruded from 6063-T6 alloy, nominal 0.090" wall thickness.
- B. Door panel members: extruded from 6063-T6 aluminum alloy, various wall thickness.
- C. Hardware: two steel [stainless steel] roller wheels [two sets of tandem roller wheels (4 wheels total)]. One stainless steel and tin-lead alloy lever-locking latch assembly [metal handle.] [keyed mortise lock]
- D. Weatherstripping: double weatherstripped around each panel and screen with .187" x .230" fin weatherstrip.
- E. Glazing attachment with silicone adhesive.
- F. Screens: tubular aluminum frame with fiberglass screen cloth, and vinyl spline.
- G. [Muntins: double applied colonial configuration (raised muntins)] [Simulated Divided Lites:double applied colonial configuration (raised external muntin with internal muntin)] [custom: specify pattern and number of lites] ]

### 2.3 ACCESSORIES

### 2.4 FABRICATION

- A. Main frame and panel joints constructed with butt joint fit and assembled with phillips pan head screws.
- B. Handle and lock shipped separately, all other hardware factory installed.
- C. All door frames shipped KD (knocked down)

## 2.5 FINISHES

- A. Colors: Selected by Architect from the following:
  - 1. Standard coating color charts.
  - 2. Custom coating color charts.
  - 3. Color Name and Number:
- B. AAMA 2603 finish: Pretreatment plus thermosetting polyester powder coating.
- C. AAMA 2605 Duranar (or comparable) finish - pretreatment plus 2 coat, 50 and 70 percent Kynar base options.
- D. Clear Anodized Finish: NAAMM AA-C2241, 204R1 – class II – Minimum 0.4 mils, in natural aluminum color.
- E. ETERNA® Wood grain finish: Pretreatment plus base powder coat with preprinted film transfer with organic photosensitive pigments and cellulose resin thermoprint.

## **PART 3 - EXECUTION**

### 3.1 EXAMINATION

- A. Verify that openings provide an acceptable anchoring surface, being clean, level, plumb, and dimensionally within the manufacturer's tolerance of clearance spacing.
- B. Correct unacceptable openings as required prior to installation.

### 3.2 INSTALLATION

- A. Install doors and accessories in accordance with approved shop drawings and manufacturer's recommendations.

- B. Securely fasten frames and jambs, and set units level, plumb, and square with respect to the surrounding structure, without twist or bow.
- C. Place insulation materials around shim spaces as required to ensure continuity of the thermal barrier of the structure.
- D. Apply caulk all around between the aluminum frame and the structure, ensuring that a continuous airtight and watertight perimeter seal results. Leave exposed surfaces clean and free of caulk.

### 3.3 ADJUSTING AND CLEANING

- A. Ensure that units freely operate in a normal fashion without scraping or excessive noise, and that door slabs make proper contact with weatherstripping perimeter seal. Adjust frame, door slab, or hardware as needed.
- B. Leave units thoroughly clean and free of dirt or other construction residue.

END OF SECTION

**MIAMI-DADE COUNTY  
PRODUCT APPROVALS / NOA'S**



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

**NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION

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

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**PGT Industries, Inc.**  
**1070 Technology Drive**  
**North Venice, FL 34275**

**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 "SH-800" Aluminum Single Hung Window – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. MD-SH800LM-01, titled "SH Window – Large Missile", sheets 1 through 8 of 8, dated 11/11/11 with revision B dated 05/15/16, prepared by manufacturer, signed and sealed by A. 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, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

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

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

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

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

This NOA **revises and renews** NOA# 15-0609.02 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



*Manuel Perez*  
8/9/16

NOA No. 16-0714.01  
Expiration Date: May 03, 2022  
Approval Date: August 18, 2016  
Page 1



**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under NOA No. 11-1222.04)*
2. Drawing No. **MD-SH800LM-01**, titled "SH Window – Large Missile", sheets 1 through 8 of 8, dated 11/11/11, with revision B dated 05/15/16, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

**B. TESTS**

1. 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 PVC sliding glass door, a PVC fixed window and an aluminum sliding glass door, using: Kodispace 4SG TPS spacer system, Duraseal<sup>®</sup> spacer system, Super Spacer<sup>®</sup> NXT<sup>™</sup> spacer system and XL Edge<sup>™</sup> spacer system at insulated glass, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-8717**, **FTL-8968** and **FTL-8970**, dated 11/16/15, 06/07/16 and 06/02/16 respectively, all signed and sealed by Idalmis Ortega, P.E.
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Small Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94  
along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-6642**, dated 10/03/11, signed and sealed by Marlin D. Brinson, P.E.  
*(Submitted under NOA No. 11-1222.04)*
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 an aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-6643**, dated 10/03/11, signed and sealed by Marlin D. Brinson, P.E.  
*(Submitted under NOA No. 11-1222.04)*



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Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 16-0714.01

Expiration Date: May 03, 2022  
Approval Date: August 18, 2016

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC-5<sup>th</sup> Edition (2014)**, dated 05/29/15, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.  
*(Submitted under previous NOA No. 15-0609.02)*
2. Glazing complies with **ASTM E1300-04**

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 06/25/15, expiring on 07/04/18.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC-5<sup>th</sup> Edition (2014)**, dated May 29, 2015, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.  
*(Submitted under previous NOA No. 15-0609.02)*
2. Statement letter of no financial interest, dated May 29, 2015, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.  
*(Submitted under previous NOA No. 15-0609.02)*
3. Laboratory compliance letters for Test Reports No. **FTL-6642** and **FTL-6643**, issued by Fenestration Testing Laboratory, Inc., dated 10/03/11, signed and sealed by Marlin D. Brinson, P.E.  
*(Submitted under NOA No. 11-1222.04)*
4. Proposal No. **16-0125** issued by the Product Control Section, dated March 09, 2016, signed by Ishaq Chanda, P.E.

**G. OTHERS**

1. Notice of Acceptance No. **15-0609.02**, issued to PGT Industries, Inc. for their Series "**SH-800**" Aluminum Single Hung Window - L.M.I." approved on 08/20/15 and expiring on 05/03/17.

  
Manuel Perez, P.E.

Product Control Examiner  
NOA No. 16-0714.01

Expiration Date: May 03, 2022  
Approval Date: August 18, 2016

**GENERAL NOTES: 800 SERIES LARGE AND SMALL MISSILE IMPACT RESISTANT SINGLE HUNG WINDOW**

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 AND CONCRETE WITH MIN. KSI PER ANCHOR TYPE, SEE TABLES 2, 4 OR 6.

4) 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) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH AS SPECIFIED ON TABLES 2, 4 OR 6. NARROW JOINT SEALANT IS USED ON ALL FOUR CORNERS OF THE FRAME. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

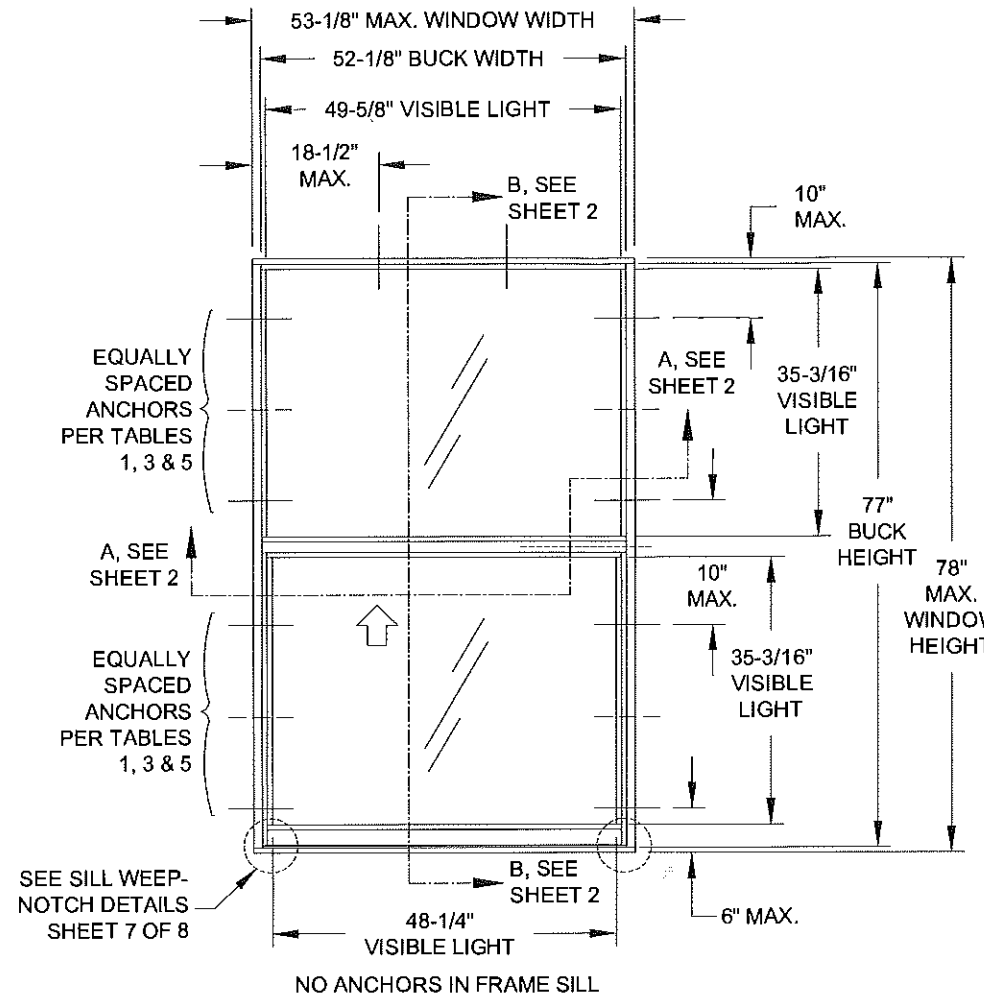
6) 1/4" MAX. SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.

7) DESIGN PRESSURES:  
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL & CYCLE TESTING AND GLASS PER ASTM E1300.  
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL & CYCLE TESTING AND GLASS PER ASTM E1300.

8) 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 FOR CORROSION RESISTANCE.

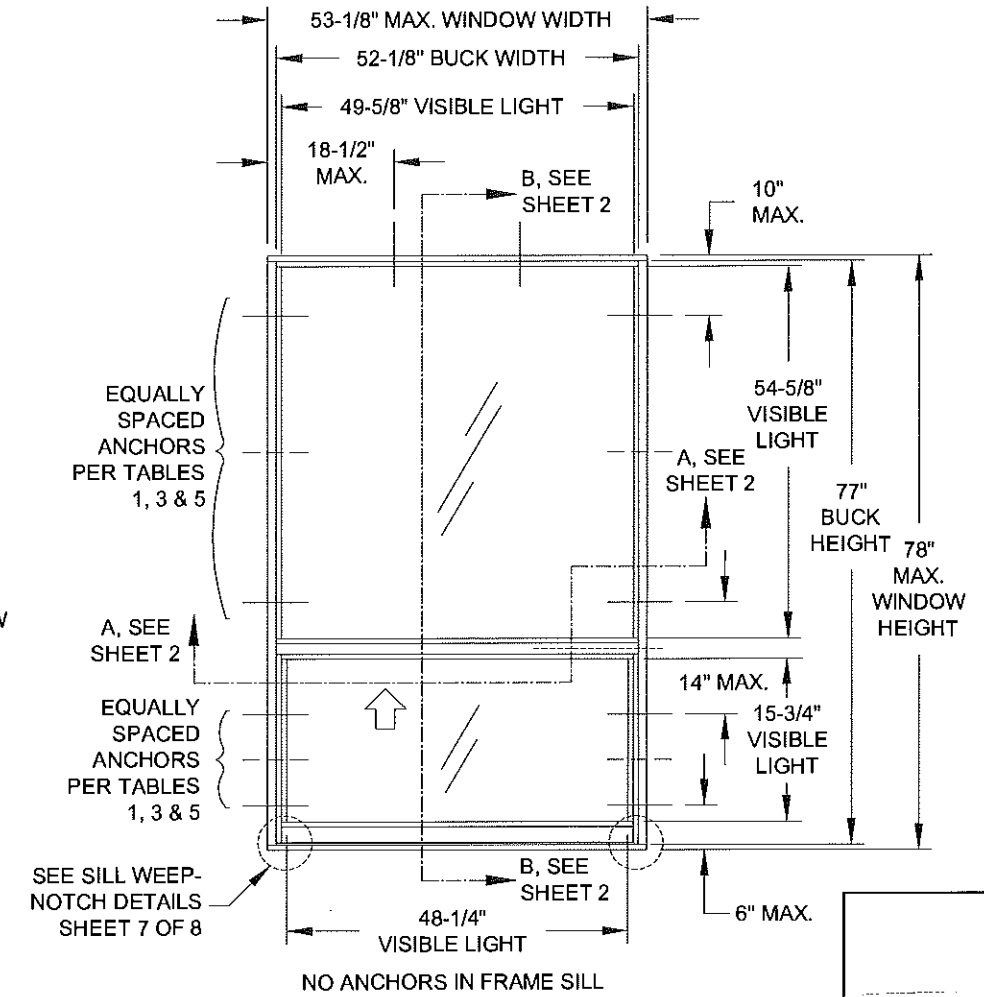
9) REFERENCES: TEST REPORTS FTL-6642, 6643; ELCO ULTRACON NOA; ELCO CRETEFLEX NOA; ANS/AF&PA NDS FOR WOOD CONSTRUCTION AND ADM ALUMINUM DESIGN MANUAL.

DESIGN PRESSURE RATING	IMPACT RATING
+90.0/-110.0 OR +90.0/-130.0	LARGE & SMALL MISSILE IMPACT RESISTANT



**TYP. EQUAL-LITE FRAME ELEVATION**

Maximum Anchor Spacing, As tested, Equal-lite	
Header	16.125
Above MR	24.58
Below MR	13.71



**TYP. PROVIEW / ORIEL FRAME ELEVATION**

Maximum Anchor Spacing, As tested, ProView	
Header	16.125
Above MR	22.03
Below MR	13.95

Window Width	Window Height	Sash Height or Configuration <sup>1</sup>	Design Pressure	
			(+) psf	(-) psf
Up to 53-1/8"	Up to 50-5/8"	All Sash Heights	+90.0	-130.0
	Over 50-5/8" and less than 63"	Equal-Lite	+90.0	-130.0
		25" thru 30-15/16"	+90.0	-130.0
	13" thru 24-15/16"	+90.0	-110.0	
63" and Over	63" and Over	Equal-Lite	+90.0	-130.0
		All Proview / Oriel	+90.0	-110.0

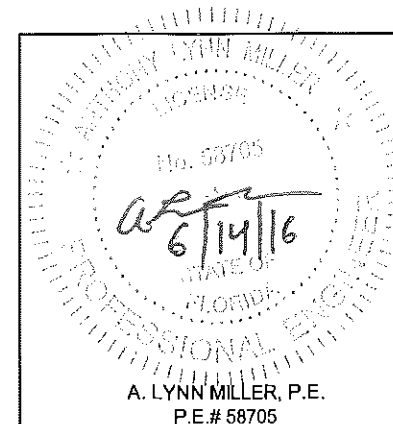
SASH HEIGHT MUST BE MEASURED AS SHOWN IN FIGURE A, SHEETS 3, 4 OR 5.

**STANDARDS USED:**

- 2014 FLORIDA BUILDING CODE (FBC), 5TH EDITION
- ASTM E1300-04
- ANS/AF&PA NDS-2012 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2010
- AISI-S100-07/S2-2010

**SHEET INDEX:**

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1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274

CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
JR	05/15/16	B) ADDED SHEET 8
Revised By:	Date:	Revision:

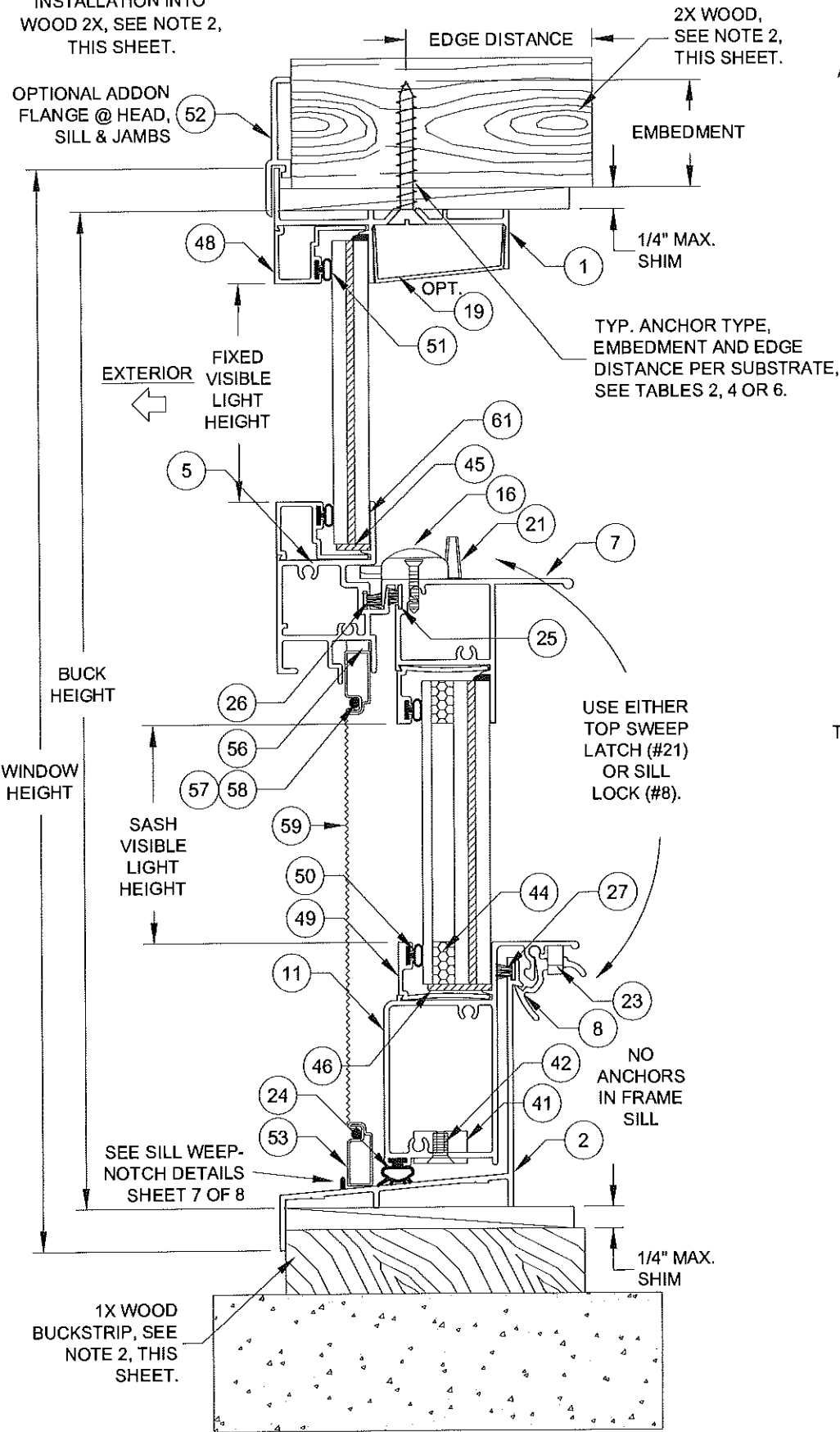
Description:		Drawn By:	
GENERAL NOTES & ELEVATIONS		J ROSOWSKI	
Title:		Date:	
SH WINDOW - LARGE MISSILE		11/11/11	
Series/Model:	Scale:	Sheet:	Drawing No.
SH-800	NTS	1 OF 8	MD-SH800LM-01
			Rev:
			B

PRODUCT REVISED as complying with the Florida Building Code  
Acceptance No 16-0714.01  
Expiration Date May 3, 2022  
By *Manuel Perez*  
Miami Dade Product Control

**INSTALLATION**

**OPTION 1**

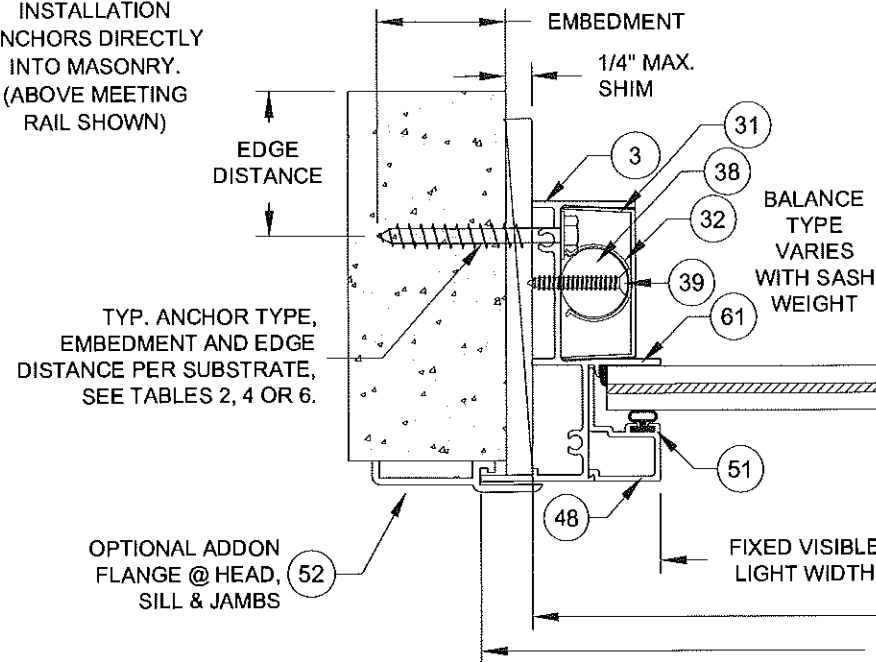
INSTALLATION INTO WOOD 2X, SEE NOTE 2, THIS SHEET.



**INSTALLATION**

**OPTION 2**

INSTALLATION ANCHORS DIRECTLY INTO MASONRY. (ABOVE MEETING RAIL SHOWN)

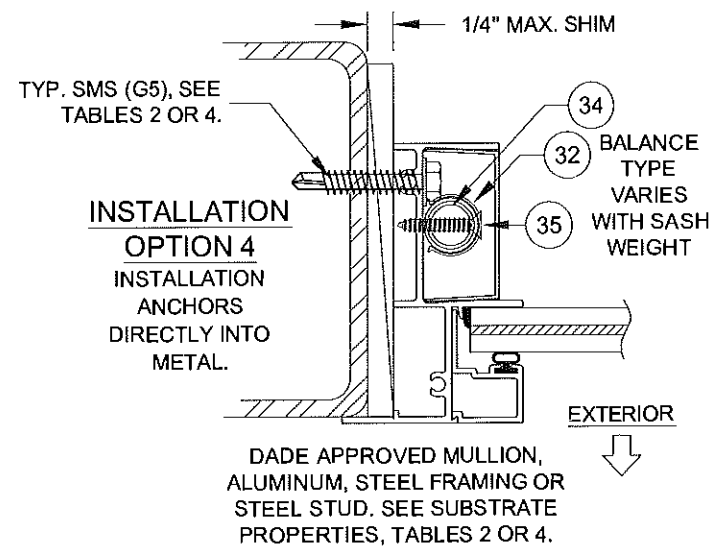
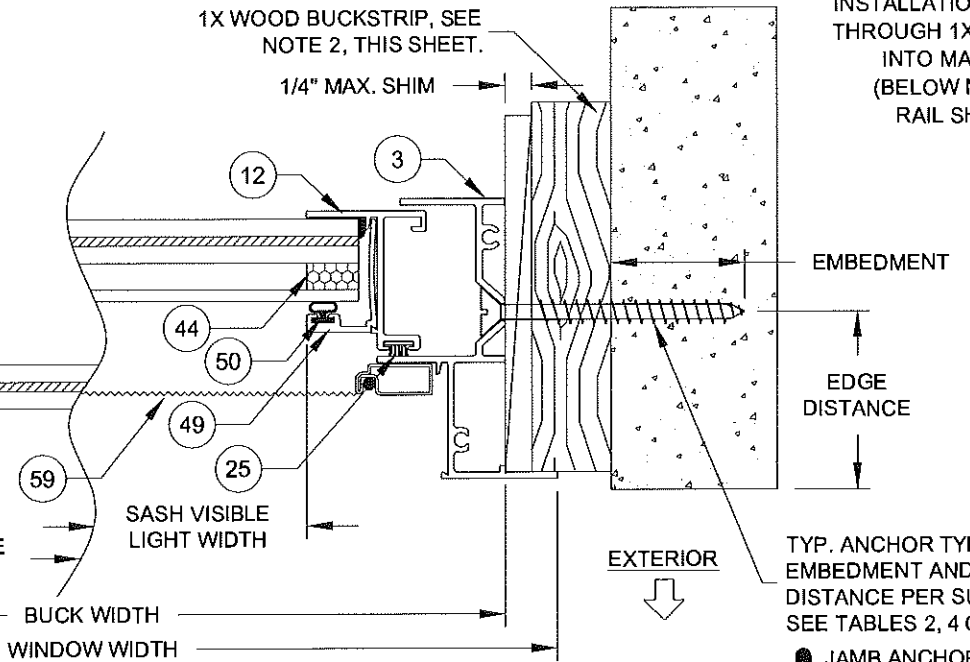


CONCRETE/CMU PER ANCHOR REQUIREMENT

**INSTALLATION**

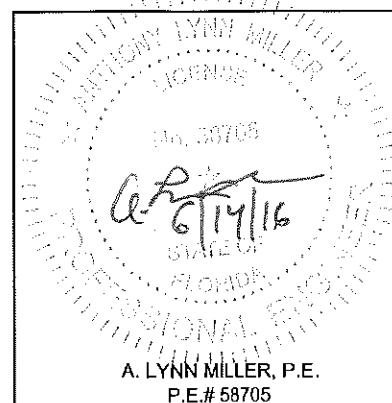
**OPTION 3**

INSTALLATION ANCHORS THROUGH 1X BUCKSTRIP INTO MASONRY. (BELOW MEETING RAIL SHOWN)



**NOTES**

- 1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLES 2, 4 OR 6. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) 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.



1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274

CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
Revised By:	Date:	Revision:
Description: <b>FLANGE FRAME INSTALLATION DETAILS</b>		Drawn By: <b>J ROSOWSKI</b>
Title: <b>SH WINDOW - LARGE MISSILE</b>		Date: <b>11/11/11</b>
Series/Model: <b>SH-800</b>	Scale: <b>NTS</b>	Sheet: <b>2 OF 8</b>
Drawing No. <b>MD-SH800LM-01</b>		Rev: <b>B</b>

PRODUCT REVISED as complying with the Florida Building Code  
Acceptance No **16-0714.01**  
Expiration Date **May 3, 2022**  
By *Manuel Perez*  
Miami Dade Product Control

TABLE 1:

		ANCHOR QUANTITIES REQUIRED - Group A Anchors																							
		Overall Window Width																							
Sash Height or Height Range	Overall Window Height	19-1/8"			26-1/2"			33"			37"			41"			45"			49"			53-1/8"		
		Jamb		Header	Jamb		Header	Jamb		Header	Jamb		Header	Jamb		Header	Jamb		Header	Jamb		Header	Jamb		Header
		Above MR	Below MR		Above MR	Below MR		Above MR	Below MR		Above MR	Below MR		Above MR	Below MR		Above MR	Below MR		Above MR	Below MR		Above MR	Below MR	
24-1/2"	12-3/4" (Equal-Lite)	1	2	1	1	2	1	1	2	1	1	2	1	1	2	2	1	2	2	1	2	2	1	2	2
25-1/2"	13-1/4" (Equal-Lite)	1	2	1	1	2	1	1	2	1	1	2	2	1	2	2	1	2	2	1	2	2	1	3	2
37"	19" (Equal-Lite)	2	2	1	2	2	1	2	2	2	2	3	2	2	3	2	2	3	2	2	3	2	2	3	3
38-3/8"	19-5/8" (Equal-Lite)	2	2	1	2	2	1	2	2	2	2	3	2	2	3	2	2	3	2	2	3	2	2	3	3
	19" thru 19-9/16"	2	2	1	2	2	1	2	2	2	2	3	2	2	3	2	2	3	2	2	3	2	2	3	3
	16" thru 18-15/16" *	2	2	1	2	2	1	2	2	2	2	3	2	2	3	2	2	3	2	2	3	2	2	3	3
45"	13" thru 15-15/16"	2	2	1	2	2	1	2	2	2	2	2	2	2	3	2	2	3	2	2	3	2	2	3	3
	23" (Equal-Lite)	2	2	1	2	2	1	2	3	2	2	3	2	2	3	2	2	4	3	2	4	3	2	4	3
	22" thru 22-15/16"	2	2	1	2	2	1	2	3	2	2	3	2	2	3	2	2	4	3	2	4	3	3	4	3
	19" thru 21-15/16" *	2	2	1	2	2	1	2	3	2	2	3	2	2	3	2	2	3	3	3	4	3	3	4	3
50-5/8"	16" thru 18-15/16"	2	2	1	2	2	1	2	2	2	3	2	2	3	2	2	3	3	3	3	3	3	3	4	4
	13" thru 15-15/16"	2	2	1	2	2	1	2	3	2	2	3	2	2	3	2	2	3	3	3	3	3	4	4	4
	25-3/4" (Equal-Lite)	2	3	1	2	3	1	2	3	2	2	3	2	2	4	3	3	4	3	3	4	3	3	5	3
	25" thru 25-11/16"	2	3	1	2	3	1	2	3	2	2	3	2	2	4	3	3	4	3	3	4	3	3	5	3
	22" thru 24-15/16"	2	3	1	2	3	1	2	3	2	3	2	3	2	3	2	3	4	3	3	4	3	3	4	4
63"	19" thru 21-15/16" *	2	2	1	2	2	1	3	3	2	3	2	3	2	3	2	3	3	3	3	4	3	3	4	4
	16" thru 18-15/16"	2	2	1	3	2	1	3	2	2	3	2	3	2	3	2	3	3	3	4	3	3	4	4	4
	13" thru 15-15/16"	2	2	1	3	2	1	3	2	2	4	2	2	4	3	3	4	3	3	4	3	4	4	4	4
	32" (Equal-Lite)	2	3	1	2	3	1	3	4	2	3	4	2	3	4	2	3	4	3	3	5	3	3	5	4
	31" thru 31-15/16"	2	3	1	2	3	1	3	4	2	3	4	2	3	4	2	3	4	3	3	5	3	3	5	4
	28" thru 30-15/16"	2	3	1	3	3	1	3	4	2	3	4	2	3	4	2	4	4	3	4	4	3	4	5	4
	25" thru 27-15/16" *	2	3	1	3	3	1	3	3	2	4	4	2	4	4	2	4	4	3	4	4	3	4	5	4
73"	22" thru 24-15/16"	3	3	1	3	3	1	4	3	2	4	3	2	4	3	2	4	4	3	4	4	3	5	4	4
	19" thru 21-15/16"	3	2	1	3	2	1	4	3	2	4	3	2	4	3	3	5	4	3	5	4	4	5	4	5
	16" thru 18-15/16"	3	2	1	4	2	1	4	2	2	5	3	2	5	3	3	5	3	3	5	3	3	5	3	4
	37" (Equal-Lite)	2	3	1	3	3	1	3	4	2	3	5	2	4	5	3	4	6	3	4	6	4	4	6	4
	34" thru 36-15/16"	3	3	1	3	3	1	3	4	2	4	5	2	4	5	3	4	6	3	4	6	4	5	6	4
	31" thru 33-15/16"	3	3	1	3	3	1	4	4	2	4	4	2	4	5	3	5	5	3	5	6	4	5	6	4
	28" thru 30-15/16" *	3	3	1	3	3	1	4	4	2	4	4	2	5	4	3	5	5	3	5	5	4	5	6	5
78"	25" thru 27-15/16"	3	3	1	4	3	1	4	3	2	5	4	2	5	4	3	6	4	3	6	4	3	6	4	4
	22" thru 24-15/16"	3	3	1	4	3	1	5	3	2	5	4	2	6	4	3	6	4	3	6	4	3	7	4	4
	19" thru 21-15/16"	3	2	1	4	2	1	5	3	2	5	3	2	6	3	3	6	4	3	6	4	3	7	4	4
	16" thru 18-15/16"	3	2	1	4	2	1	5	2	2	6	3	2	6	3	3	7	3	3	7	3	4	7	4	5
	39-1/2" (Equal-Lite)	2	3	1	3	4	1	3	4	2	4	5	2	4	5	3	4	6	3	4	6	4	5	7	4
	37" thru 39-7/16"	3	3	1	3	4	1	4	4	2	4	5	2	4	5	3	4	6	3	5	6	4	5	7	4
	34" thru 36-15/16"	3	3	1	3	3	1	4	4	2	4	5	2	4	5	3	5	6	3	5	6	4	5	6	5
78"	31" thru 33-15/16" *	3	3	1	4	3	1	4	4	2	5	4	2	5	5	3	5	5	3	5	6	4	6	6	5
	28" thru 30-15/16"	3	3	1	4	3	1	4	4	2	5	4	2	5	4	3	6	5	3	6	5	4	6	6	5
	25" thru 27-15/16"	3	3	1	4	3	1	5	3	2	5	4	2	6	4	3	6	4	3	6	4	3	7	4	5
	22" thru 24-15/16"	3	3	1	4	3	1	5	3	2	6	3	2	6	4	3	6	4	3	7	4	4	7	5	5
20" thru 21-15/16"	3	2	1	4	2	1	5	3	2	6	3	2	6	3	3	7	4	3	7	4	4	7	4	5	

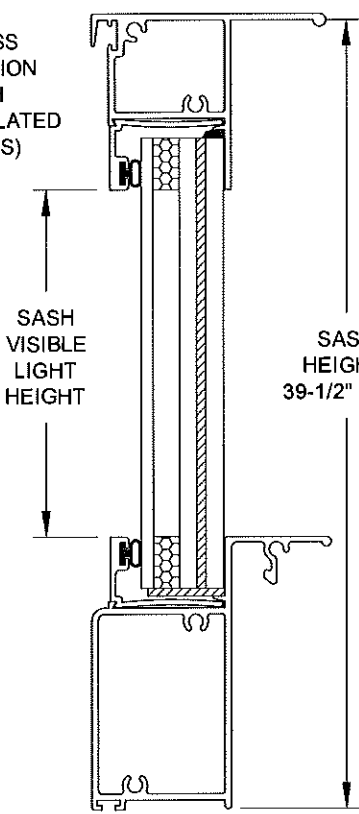
\* SASH HEIGHT RANGE INCLUDES THE STANDARD PROVIEW / ORIEL CONFIGURATION.

TABLE 2:

Anchor Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment
A	#12, Steel SMS (G5) or #12, 410 SS SMS	P.T. Southern Pine (SG = .55)	9/16"	1-3/8"
		6063-T5 Alum	3/8"	1/8" **
		Steel Stud, Gr. 33 min.	3/8"	0.045 (18 Ga) **
		A36 Steel	3/8"	1/8" **
	3/16" Steel Ultracon	Concrete (min. 2.9 ksi) $\Delta$	2-1/2"	1-3/4"
		Grouted-filled Block, (ASTM C90)	2-1/2"	2-1/4"
	1/4" Steel Ultracon	Concrete (min. 2.9 ksi) $\Delta$	1"	1-3/4"
		Hollow Block, (ASTM C90)	2-1/2"	1-1/4"

\*\* MINIMUM OF 3 THREADS BEYOND THE METAL SUBSTRATE.

FIGURE A:  
SASH CROSS SECTION (WITH INSULATED GLASS)



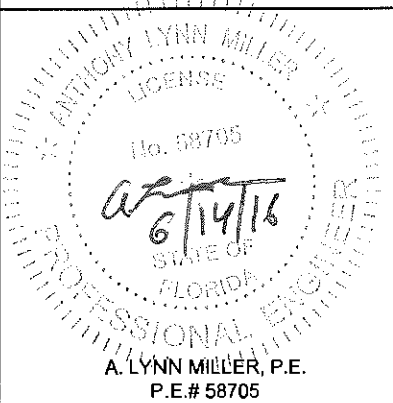
NOTES:

- 1) FOR BUCK DIMENSIONS, SUBTRACT 1" FROM WINDOW WIDTH OR HEIGHT.
- 2) "MR" = "MEETING RAIL"
- 3) FOR OVERALL SASH WIDTH, SUBTRACT 2-9/16" FROM THE WINDOW WIDTH.
- 4) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
- 5) SEE SHEET 2 FOR INSTALLATION DETAILS.

SASH VISIBLE LIGHT FORMULAS:  
WIDTH = WINDOW WIDTH - 4.875"  
HEIGHT = SASH HEIGHT - 4.293"

FIXED VISIBLE LIGHT FORMULAS:  
WIDTH = WINDOW WIDTH - 3.5"  
HEIGHT = WINDOW HEIGHT - SASH HEIGHT - 3.336"

PRODUCT REVISED as complying with the Florida Building Code  
Acceptance No. 16-0714.01  
Expiration Date May 3, 2022  
By *Manuel Perez*  
Miami Trade Product Control



	Revised By:	Date:	Revision:
	Revised By:	Date:	Revision:
Description: ANCHOR QUANTITIES A			Drawn By: J ROSOWSKI
Title: SH WINDOW - LARGE MISSILE			Date: 11/11/11
Series/Model: SH-800	Scale: NTS	Sheet: 3 OF 8	Drawing No. MD-SH800LM-01
CERT. OF AUTH. #29296			Rev: B

TABLE 3:

		ANCHOR QUANTITIES REQUIRED - Group B Anchors																							
		Overall Window Width																							
Overall Window Height	Sash Height or Height Range	19-1/8"			26-1/2"			33"			37"			41"			45"			49"			53-1/8"		
		Jamb		Header	Jamb		Header	Jamb		Header	Jamb		Header	Jamb		Header	Jamb		Header	Jamb		Header	Jamb		Header
		Above MR	Below MR	Header	Above MR	Below MR	Header	Above MR	Below MR	Header	Above MR	Below MR	Header	Above MR	Below MR	Header	Above MR	Below MR	Header	Above MR	Below MR	Header	Above MR	Below MR	Header
24-1/2"	12-3/4" (Equal-Lite)	1	2	1	1	2	1	1	2	1	1	2	1	1	2	2	1	1	2	2	1	1	2	2	1
	25-1/2"	1	2	1	1	2	1	1	2	1	1	2	1	1	2	2	1	1	2	2	1	1	2	2	1
37"	19" (Equal-Lite)	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
38-3/8"	19-5/8" (Equal-Lite)	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
	19" thru 19-9/16"	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
	16" thru 18-15/16" *	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
45"	13" thru 15-15/16"	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
	23" (Equal-Lite)	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
	22" thru 22-15/16"	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
	19" thru 21-15/16" *	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
50-5/8"	16" thru 18-15/16"	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
	13" thru 15-15/16"	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
	25-3/4" (Equal-Lite)	2	3	1	2	3	1	2	3	1	2	3	1	2	3	2	2	3	2	2	3	2	2	3	2
	25" thru 25-11/16"	2	3	1	2	3	1	2	3	1	2	3	1	2	3	2	2	3	2	2	3	2	2	3	2
	22" thru 24-15/16"	2	3	1	2	3	1	2	3	1	2	3	1	2	3	2	2	3	2	2	3	2	2	3	2
63"	19" thru 21-15/16" *	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
	16" thru 18-15/16"	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
	13" thru 15-15/16"	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
	32" (Equal-Lite)	2	3	1	2	3	1	2	3	1	2	3	1	2	3	2	2	3	2	2	3	2	2	3	2
	31" thru 31-15/16"	2	3	1	2	3	1	2	3	1	2	3	1	2	3	2	2	3	2	2	3	2	2	3	2
	28" thru 30-15/16"	2	3	1	2	3	1	2	3	1	2	3	1	2	3	2	2	3	2	2	3	2	2	3	2
	25" thru 27-15/16" *	2	3	1	2	3	1	2	3	1	2	3	1	2	3	2	2	3	2	2	3	2	2	3	2
73"	22" thru 24-15/16"	3	3	1	3	3	1	3	3	1	3	3	1	3	3	2	3	3	2	3	3	2	3	3	2
	19" thru 21-15/16"	3	2	1	3	2	1	3	2	1	3	2	1	3	2	2	3	2	2	3	2	2	3	2	2
	16" thru 18-15/16"	3	2	1	3	2	1	3	2	1	3	2	1	3	2	2	3	2	2	3	2	2	3	2	2
	13" thru 15-15/16"	3	2	1	3	2	1	3	2	1	3	2	1	3	2	2	3	2	2	3	2	2	3	2	2
	37" (Equal-Lite)	2	3	1	2	3	1	2	3	1	2	3	1	2	3	2	3	4	2	3	4	2	3	4	3
	34" thru 36-15/16"	3	3	1	3	3	1	3	3	1	3	3	1	3	3	2	3	3	2	3	3	2	3	4	3
78"	31" thru 33-15/16"	3	3	1	3	3	1	3	3	1	3	3	1	3	3	2	3	3	2	3	3	2	3	4	3
	28" thru 30-15/16" *	3	3	1	3	3	1	3	3	1	3	3	1	3	3	2	3	3	2	3	3	2	3	3	3
	25" thru 27-15/16"	3	3	1	3	3	1	3	3	1	3	3	1	3	3	2	3	3	2	3	3	2	3	3	3
	22" thru 24-15/16"	3	3	1	3	3	1	3	3	1	3	3	1	3	3	2	3	3	2	3	3	2	3	3	3
	19" thru 21-15/16"	3	2	1	3	2	1	3	2	1	3	2	1	3	2	2	3	2	2	3	2	2	3	2	2
	16" thru 18-15/16"	3	2	1	3	2	1	3	2	1	3	2	1	3	2	2	3	2	2	3	2	2	3	2	2

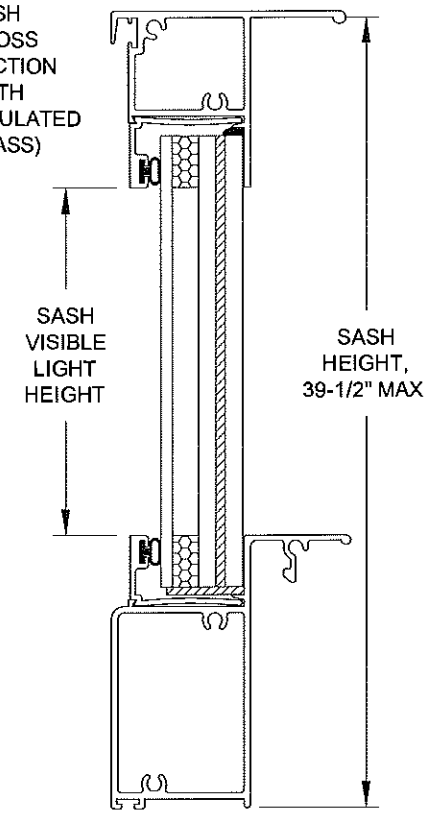
\* SASH HEIGHT RANGE INCLUDES THE STANDARD PROVIEW / ORIEL CONFIGURATION.

TABLE 4:

Anchor Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment
B	#14, Steel SMS (G5) or #14, 410 SS SMS	P.T. Southern Pine (SG = .55)	9/16"	1-3/8"
		6063-T5 Alum	3/8"	1/8" **
		Steel Stud, Gr. 33 min.	3/8"	0.045 (18 Ga) **
	1/4" CreteFlex	P.T. Southern Pine (SG = .55)	1"	1-3/4"
		Hollow Block, (ASTM C90)	3-1/8"	1-1/4"

\*\* MINIMUM OF 3 THREADS BEYOND THE METAL SUBSTRATE.

FIGURE A: SASH CROSS SECTION (WITH INSULATED GLASS)



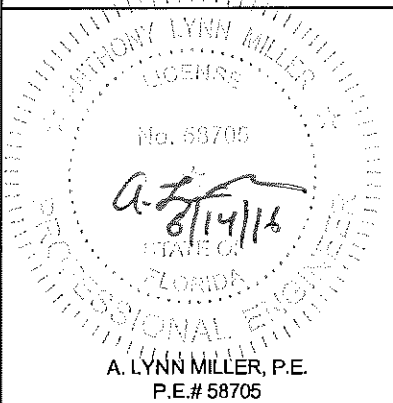
NOTES:

- 1) FOR BUCK DIMENSIONS, SUBTRACT 1" FROM WINDOW WIDTH OR HEIGHT.
- 2) "MR" = "MEETING RAIL"
- 3) FOR OVERALL SASH WIDTH, SUBTRACT 2-9/16" FROM THE WINDOW WIDTH.
- 4) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
- 5) SEE SHEET 2 FOR INSTALLATION DETAILS.

SASH VISIBLE LIGHT FORMULAS:  
 WIDTH = WINDOW WIDTH - 4.875"  
 HEIGHT = SASH HEIGHT - 4.293"

FIXED VISIBLE LIGHT FORMULAS:  
 WIDTH = WINDOW WIDTH - 3.5"  
 HEIGHT = WINDOW HEIGHT - SASH HEIGHT - 3.336"

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 16-0714.01 Expiration Date 12/31/2022  
 By *Manuel Perry*  
 Miami Dade Product Control



	Revised By:	Date:	Revision:
	Revised By:	Date:	Revision:
Description: ANCHOR QUANTITIES B			Drawn By: J ROSOWSKI
Title: SH WINDOW - LARGE MISSILE			Date: 11/11/11
Series/Model: SH-800	Scale: NTS	Sheet: 4 OF 8	Drawing No. MD-SH800LM-01
CERT. OF AUTH. #29296		Rev: B	

TABLE 5:

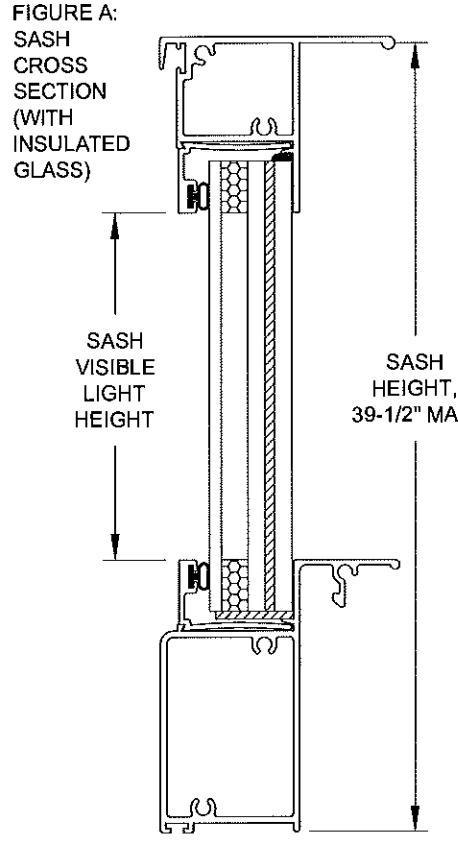
**ANCHOR QUANTITIES REQUIRED - Group C Anchors**

Overall Window Height	Sash Height or Height Range	Overall Window Width																							
		19-1/8"			26-1/2"			33"			37"			41"			45"			49"			53-1/8"		
		Above MR	Below MR	Header	Above MR	Below MR	Header	Above MR	Below MR	Header	Above MR	Below MR	Header	Above MR	Below MR	Header	Above MR	Below MR	Header	Above MR	Below MR	Header	Above MR	Below MR	Header
24-1/2"	12-3/4" (Equal-Lite)	1	2	1	1	2	1	1	2	1	1	2	1	1	2	2	1	1	2	2	1	1	2	2	1
	25-1/2"	1	2	1	1	2	1	1	2	1	1	2	1	1	2	2	1	1	2	2	1	1	2	2	1
37"	19" (Equal-Lite)	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
38-3/8"	19-5/8" (Equal-Lite)	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
	19" thru 19-9/16"	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
	16" thru 18-15/16" *	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
45"	13" thru 15-15/16"	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
	23" (Equal-Lite)	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
	22" thru 22-15/16"	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
	19" thru 21-15/16" *	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
50-5/8"	16" thru 18-15/16"	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
	13" thru 15-15/16"	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
	25-3/4" (Equal-Lite)	2	3	1	2	3	1	2	3	1	2	3	1	2	3	2	2	3	2	2	3	2	2	3	2
	25" thru 25-11/16"	2	3	1	2	3	1	2	3	1	2	3	1	2	3	2	2	3	2	2	3	2	2	3	2
	22" thru 24-15/16"	2	3	1	2	3	1	2	3	1	2	3	1	2	3	2	2	3	2	2	3	2	2	3	2
63"	19" thru 21-15/16" *	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
	16" thru 18-15/16"	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
	13" thru 15-15/16"	2	2	1	2	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
	32" (Equal-Lite)	2	3	1	2	3	1	2	3	1	2	3	1	2	3	2	2	3	2	2	3	2	2	3	2
	31" thru 31-15/16"	2	3	1	2	3	1	2	3	1	2	3	1	2	3	2	2	3	2	2	3	2	2	3	2
	28" thru 30-15/16"	2	3	1	2	3	1	2	3	1	2	3	1	2	3	2	2	3	2	2	3	2	2	3	2
	25" thru 27-15/16" *	2	3	1	2	3	1	2	3	1	2	3	1	2	3	2	2	3	2	2	3	2	2	3	2
73"	22" thru 24-15/16"	3	3	1	3	3	1	3	3	1	3	3	1	3	3	2	3	3	2	3	3	2	3	3	2
	19" thru 21-15/16"	3	2	1	3	2	1	3	2	1	3	2	1	3	2	2	3	2	2	3	2	2	3	2	2
	16" thru 18-15/16"	3	2	1	3	2	1	3	2	1	3	2	1	3	2	2	3	2	2	3	2	2	3	2	2
	13" thru 15-15/16"	3	2	1	3	2	1	3	2	1	3	2	1	3	2	2	3	2	2	3	2	2	3	2	2
	37" (Equal-Lite)	2	3	1	2	3	1	2	3	1	2	3	1	2	3	2	2	3	2	2	3	2	2	3	2
	34" thru 36-15/16"	3	3	1	3	3	1	3	3	1	3	3	1	3	3	2	3	3	2	3	3	2	3	3	2
78"	31" thru 33-15/16"	3	3	1	3	3	1	3	3	1	3	3	1	3	3	2	3	3	2	3	3	2	3	3	2
	28" thru 30-15/16" *	3	3	1	3	3	1	3	3	1	3	3	1	3	3	2	3	3	2	3	3	2	3	3	2
	25" thru 27-15/16"	3	3	1	3	3	1	3	3	1	3	3	1	3	3	2	3	3	2	3	3	2	3	3	2
	22" thru 24-15/16"	3	3	1	3	3	1	3	3	1	3	3	1	3	3	2	3	3	2	3	3	2	3	3	2
	19" thru 21-15/16"	3	2	1	3	2	1	3	2	1	3	2	1	3	2	2	3	2	2	3	2	2	3	2	2
	16" thru 18-15/16"	3	2	1	3	2	1	3	2	1	3	2	1	3	2	2	3	2	2	3	2	2	3	2	2
	39-1/2" (Equal-Lite)	2	3	1	2	3	1	2	3	1	2	3	1	2	3	2	2	3	2	2	3	2	2	4	2
37" thru 39-7/16"	3	3	1	3	3	1	3	3	1	3	3	1	3	3	2	3	3	2	3	3	2	3	3	2	
34" thru 36-15/16"	3	3	1	3	3	1	3	3	1	3	3	1	3	3	2	3	3	2	3	3	2	3	3	2	
31" thru 33-15/16" *	3	3	1	3	3	1	3	3	1	3	3	1	3	3	2	3	3	2	3	3	2	3	3	2	
28" thru 30-15/16"	3	3	1	3	3	1	3	3	1	3	3	1	3	3	2	3	3	2	3	3	2	3	3	2	
25" thru 27-15/16"	3	3	1	3	3	1	3	3	1	3	3	1	3	3	2	3	3	2	3	3	2	3	3	2	
22" thru 24-15/16"	3	3	1	3	3	1	3	3	1	3	3	1	3	3	2	3	3	2	3	3	2	3	3	2	
20" thru 21-15/16"	3	2	1	3	2	1	3	2	1	3	2	1	3	2	2	3	2	2	3	2	2	3	2	2	

\* SASH HEIGHT RANGE INCLUDES THE STANDARD PROVIEW / ORIEL CONFIGURATION.

TABLE 6:

Anchor Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment
C	1/4" Steel Ultracon	Concrete (min. 2.9 ksi)	2-1/2"	1-3/8"
	1/4" CreteFlex	Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
	5/16" Steel Ultracon	Concrete (min. 3.5 ksi)	2-3/16"	1-3/4"
		Grouted-filled Block, (ASTM C90)	2-1/2"	1-3/4"

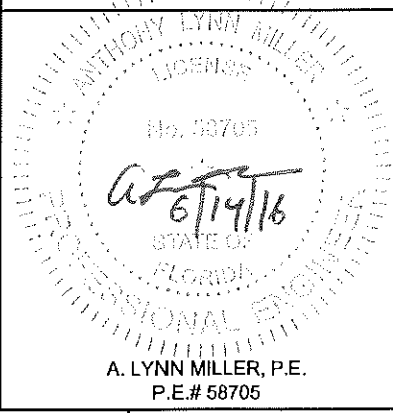


- NOTES:
- 1) FOR BUCK DIMENSIONS, SUBTRACT 1" FROM WINDOW WIDTH OR HEIGHT.
  - 2) "MR" = "MEETING RAIL"
  - 3) FOR OVERALL SASH WIDTH, SUBTRACT 2-9/16" FROM THE WINDOW WIDTH.
  - 4) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
  - 5) SEE SHEET 2 FOR INSTALLATION DETAILS.

**SASH VISIBLE LIGHT FORMULAS:**  
 WIDTH = WINDOW WIDTH - 4.875"  
 HEIGHT = SASH HEIGHT - 4.293"

**FIXED VISIBLE LIGHT FORMULAS:**  
 WIDTH = WINDOW WIDTH - 3.5"  
 HEIGHT = WINDOW HEIGHT - SASH HEIGHT - 3.336"

PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No. 16-0714-01  
 Expiration Date May 3, 2022  
 By *Manuel Perez*  
 Miami Trade Product Control

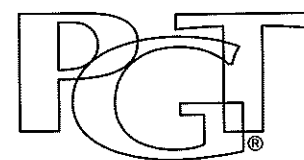
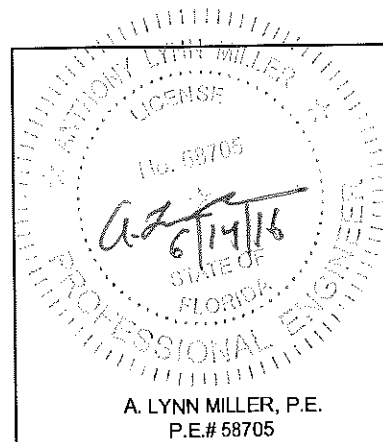
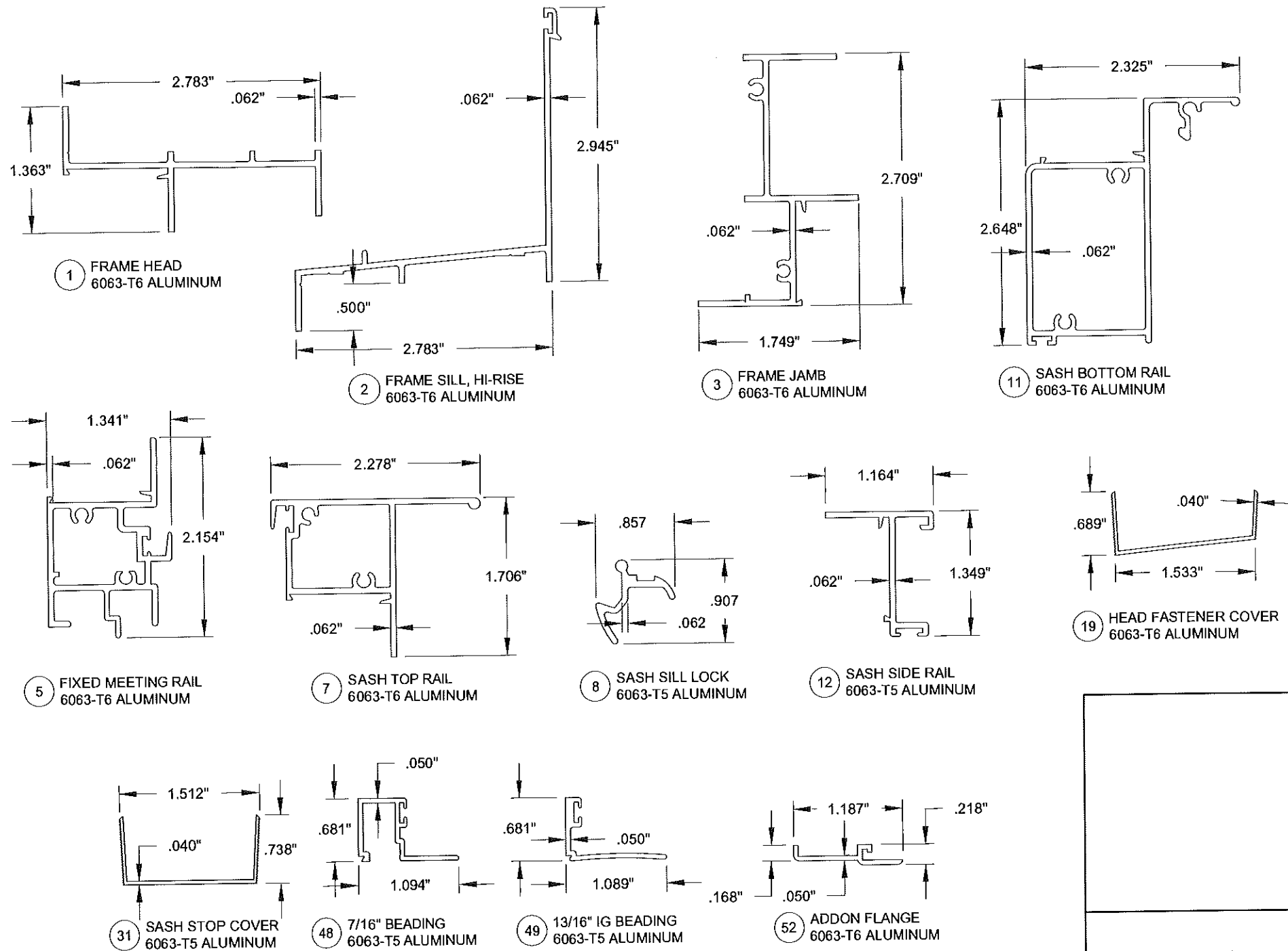


	Revised By:	Date:	Revision:
	Revised By:	Date:	Revision:
Description:		Anchor Quantities C	
Title:		SH WINDOW - LARGE MISSILE	
Series/Model:		Scale:	Sheet:
SH-800		NTS	5 OF 8
Drawing No.		Rev:	
MD-SH800LM-01		B	
Date:		11/11/11	
1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274		CERT. OF AUTH. #29296	
A. LYNN MILLER, P.E. P.E.# 58705		J ROSOWSKI	



TABLE 7:

Item	Dwg. #	Part #	Description	Material
1	4002A	612225W	Frame Head	6063-T6
2	4050D	64050DW	Frame Hi-Rise Sill	6063-T6
3	4004	612227W	Frame Jamb	6063-T6
5	4054B	64054BW	Fixed Meeting Rail	6063-T6
7	4006D	64006W	Sash Top Rail	6063-T6
8	4009	764009W	Sill Lock	6063-T5
11	4051A	64051W	Sash Bottom Rail - Hi-Rise	6063-T6
12	4008	612231W	Sash Side Rail	6063-T5
13	1155	781PQA	#8 x 1" Quad Pn. SMS	Steel or 410 SS
16	1016	7858WW	#8 x 5/8" Ph. Fl. SMS	Steel
17	4087	44087AWR	Sash Bottom Rail End Cap	Rigid PVC
19	4081	64081W	Head Fastener Cover (Opt.)	6063-T6
21	1096	71797W	Top Sweep Latch	Cast Zinc
22	4080B	74080BK	Mtg Rail Sweep Latch Plug	Rigid PVC
23	1088	7SPRNG	Sill Latch Spring	Spring Steel
24	1226D	61226DW	Wstp., Bulb Vinyl (@ Sash Bottom Rail)	Flex PVC 70
25	1235	67S16G	.170" x .270" Fin Seal	
26	4066	64066G	.187" x .230" Fin Seal	
27	1062	61062G	.187" x .270" Fin Seal	
28	1626	7PAD1627	Adhesive Open Cell Foam Pad	Polyethylene
29		74087	Hi-Rise Sill Gasket	Polyethylene
30	4076D	74076DW	Head Gasket	Polyethylene
31	4053	64053W	Sash Stop Cover (All Balances)	6063-T5
32	1080	6BALCVR916W	Balance Cover (All Balances)	Rigid Vinyl
34		75831KEZ	Caldwell EZ-Lift Balance	
35		7834AA	#8 x 3/4" PH PN (EZ-Lift)	Steel
36	4085	44085WR	Sash Cover Guide (EZ-Lift)	Vinyl
38			Caldwell Ultra-Lift Balance (Sash > 55 lbs)	
39		78X1FPAX	#8 x 1" Ph. Fl. St. Stl. (Ultra-Lift)	410 SS
40	1086	44086WR	Sash Cover Guide (Ultra-Lift)	Vinyl
41	4029-1	7ULBRKT	Sash Bracket (Ultra-Lift)	Steel
42		7832X12FFPX	#8-32 x 1/2" PH FL SS (Ultra-Lift)	410 SS
45	1622	71622K	Lami Setting Block 3/32" x 25/64" x 1"	Neoprene, 85 duro
46	1715	71715K	IG Setting Block 1/8" x 3/4" x 1-1/14"	Neoprene, 85 duro
48	4222-1A	64222AW	7/16" Lami Glazing Bead	6063-T5
49	4039-1A	64039BW	13/16" Lami IG Glazing Bead	6063-T5
50	1224	6TP247W	Bulb Bead Weatherstrip, IG	Polyethylene
51	1225	6TP248K	Bulb Bead Weatherstrip	Polyethylene
52	134	66615W	Add-on Flange (Opt.)	6063-T6
53	1014E	61014FW	Screen Frame	Aluminum
54	1630	47042W	Screen Corner Key w/Rings	Vinyl
55	1631	47041W	Screen Corner Key w/out Rings	Vinyl
56	320B	7320SPNG	Screen Spring	Spring Steel
57	1624	61624K	Screen Spline - .135 Dia. Foam	Rubber
58		61635K	Screen Spline - .135 Dia. Hard	Rubber
59		61816C34	Screen Cloth	Fiberglass
61			Dow Corning 899 Silicone Glazing Sealant or Equiv.	
93			3/16" HS - .090" SentryGlas Interlayer - 3/16" HS	
94			1/8" T - 1/4" Air - 3/16" HS - .090" SentryGlas Interlayer - 3/16" HS	



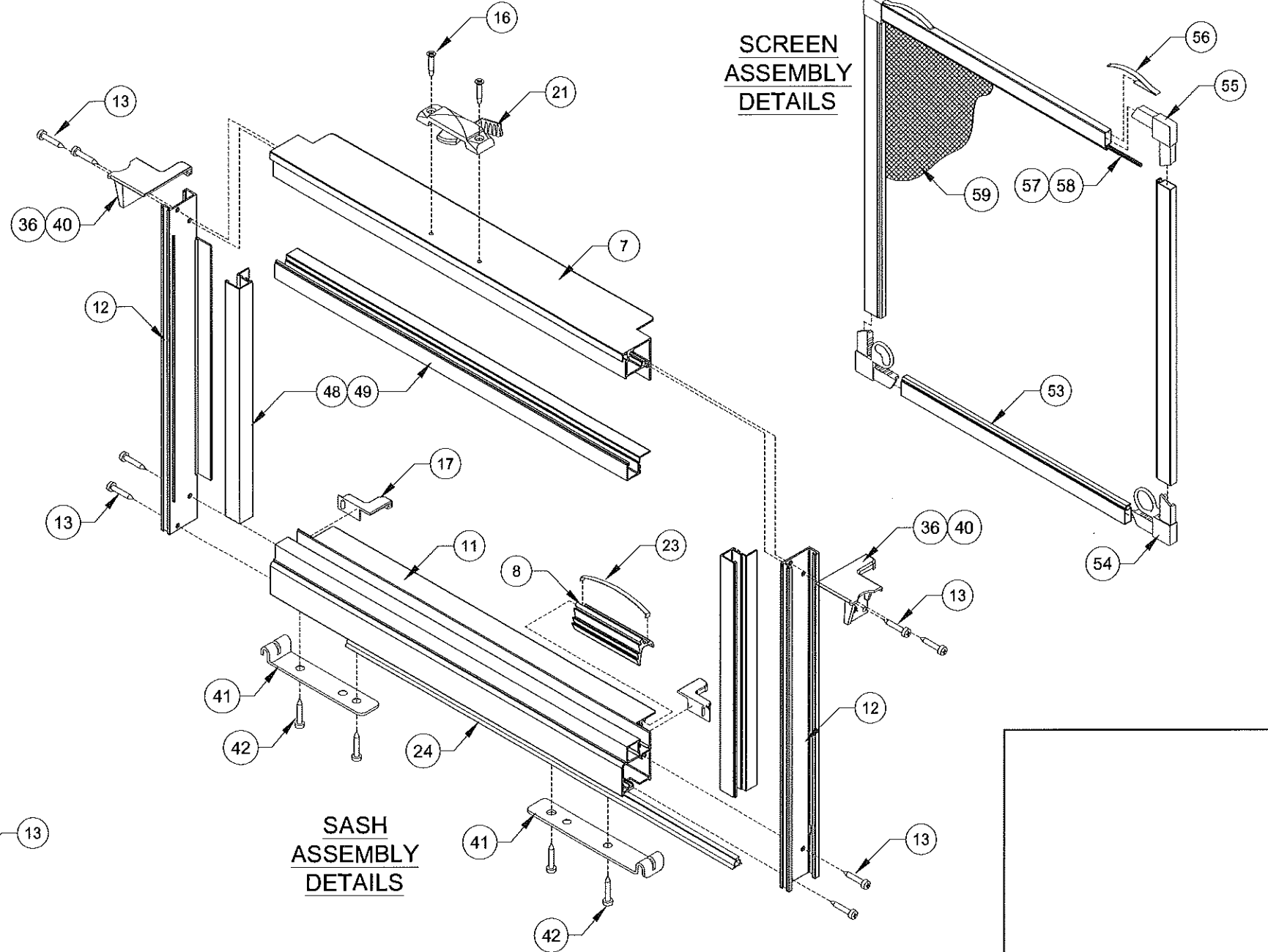
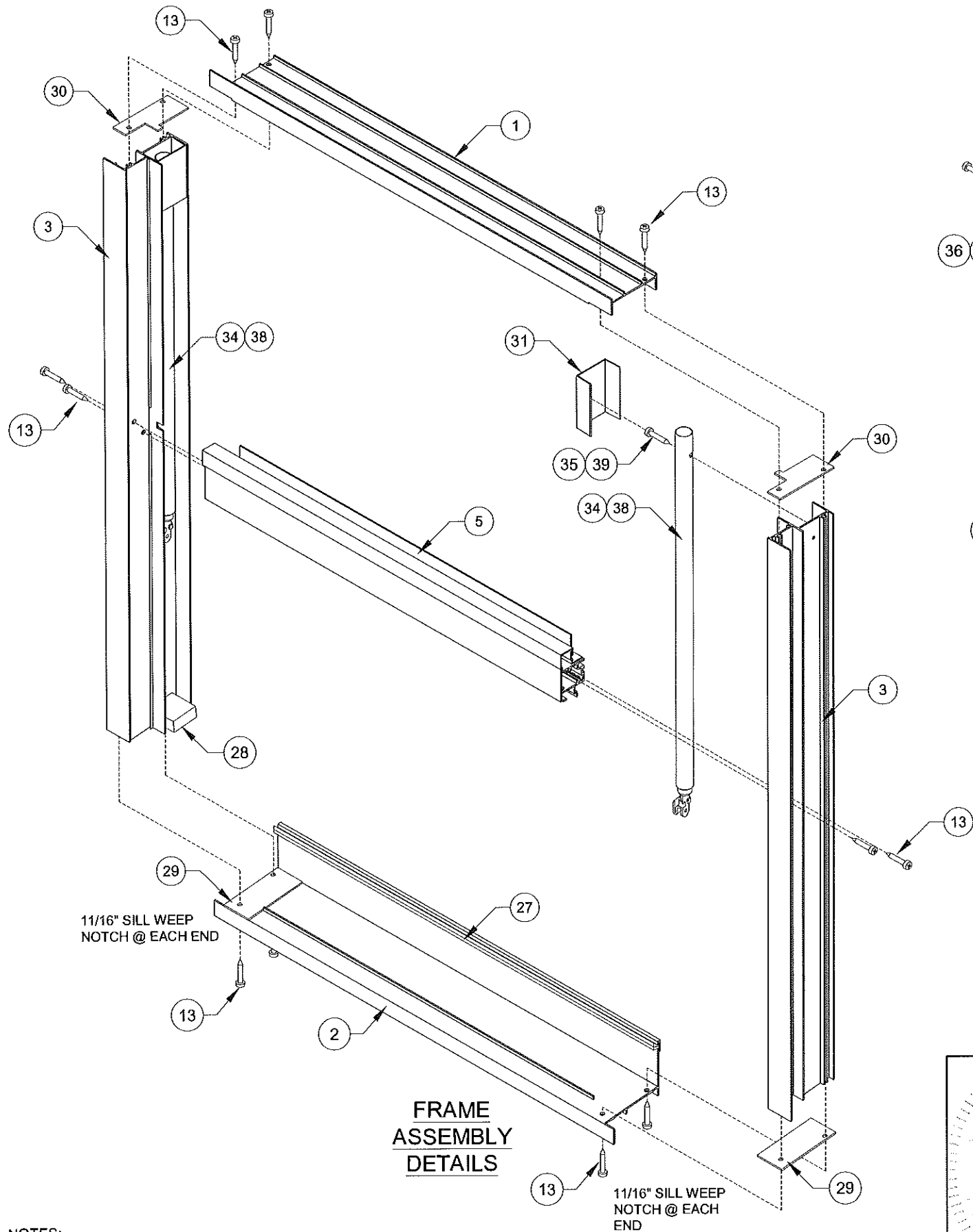
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274

CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
Revised By:	Date:	Revision:
Description: <b>BOM &amp; PART DETAILS</b>		Drawn By: <b>J ROSOWSKI</b>
Title: <b>SH WINDOW - LARGE MISSILE</b>		Date: <b>11/11/11</b>
Series/Model: <b>SH-800</b>	Scale: <b>NTS</b>	Sheet: <b>6 OF 8</b>
Drawing No. <b>MD-SH800LM-01</b>		Rev: <b>B</b>

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No **16-0714.01**  
Expiration Date **May 3, 2022**  
By *Manuel Perry*  
Miami Dade Product Control





11/16" SILL WEEP NOTCH @ EACH END

**FRAME ASSEMBLY DETAILS**

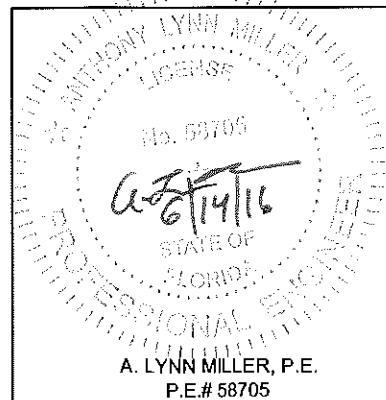
**SASH ASSEMBLY DETAILS**

**SCREEN ASSEMBLY DETAILS**

NOTES:  
 1) GLASS & FIXED LITE BEADING NOT SHOWN FOR CLARITY.  
 2) HARDWARE FOR BOTH TYPES OF BALANCES SHOWN. REFER TO TABLE 7, SHEET 6 FOR SPECIFIC HARDWARE REQUIREMENTS USED FOR EACH BALANCE TYPE.

11/16" SILL WEEP NOTCH @ EACH END

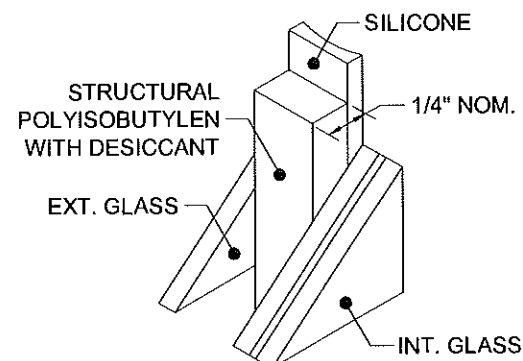
PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No. 16-0714-01  
 Expiration Date May 3, 2022  
 By *Manuel*  
 Miami Dade Product Control



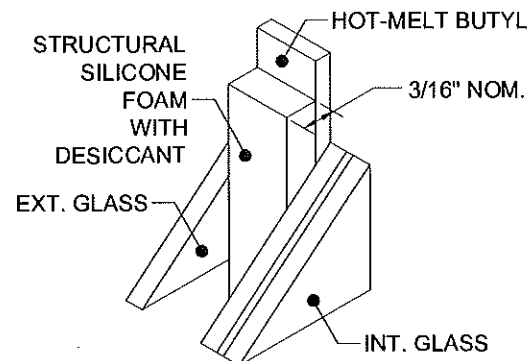
1070 TECHNOLOGY DRIVE  
 N. VENICE, FL 34275  
 P.O. BOX 1529  
 NOKOMIS, FL 34274

CERT. OF AUTH. #29296

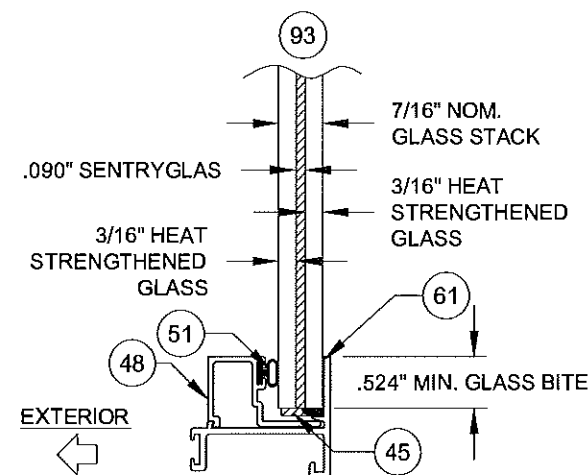
Revised By:	Date:	Revision:
Revised By:	Date:	Revision:
Description: <b>ASSEMBLY DETAILS</b>		Drawn By: <b>J ROSOWSKI</b>
Title: <b>SH WINDOW - LARGE MISSILE</b>		Date: <b>11/11/11</b>
Series/Model: <b>SH-800</b>	Scale: <b>NTS</b>	Sheet: <b>7 OF 8</b>
Drawing No. <b>MD-SH800LM-01</b>		Rev: <b>B</b>



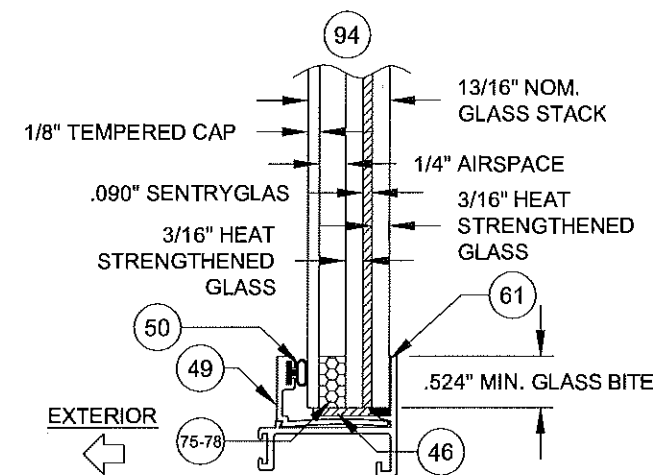
75 **KODISPACE**  
**4SG TPS**



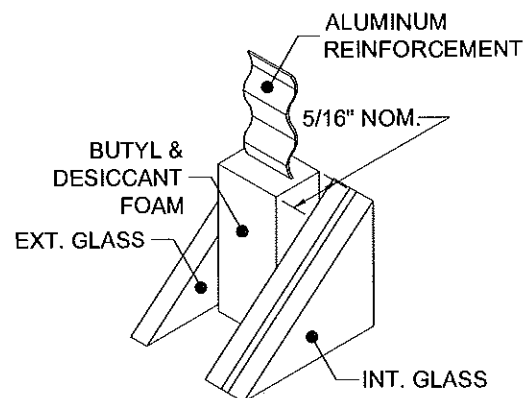
76 **SUPER SPACER**<sup>®</sup> **NXT**<sup>™</sup>



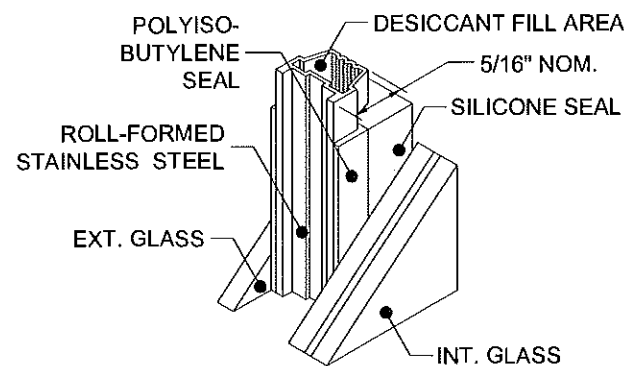
**7/16" GLAZING DETAIL**



**13/16" I.G. GLAZING DETAIL**



77 **DURASEAL**<sup>®</sup>  
**SPACER**



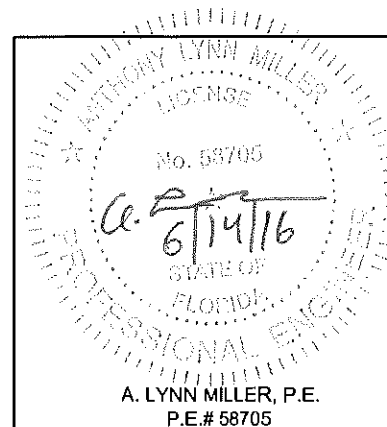
78 **XL EDGE**<sup>™</sup>  
**SPACER**

**GLAZING NOTES:**  
SENTRYGLAS<sup>®</sup> BY KURARAY AMERICA, INC.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 16-0714.01  
Expiration Date May 3, 2022  
By *Manuel Ruiz*  
Miami Dade Product Control

Part #	Description	Material
75	Kommerling 4SG TPS Spacer System	See this Sheet for Materials
76	Quanex Super Spacer nXT with Hot Melt Butyl	
77	Quanex Duraseal Spacer	
78	Cardinal XL Edge Spacer	

REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970



1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274

CERT. OF AUTH. #29296

Revised By: <b>JR</b>	Date: <b>05/15/16</b>	Revision: B) ADDED SHEET 8
Revised By:	Date:	Revision:
Description: <b>GLAZING DETAILS</b>		Drawn By: <b>J ROSOWSKI</b>
Title: <b>SH WINDOW - LARGE MISSILE</b>		Date: <b>11/11/11</b>
Series/Model: <b>SH-800</b>	Scale: <b>NTS</b>	Sheet: <b>8 OF 8</b>
Drawing No. <b>MD-SH800LM-01</b>		Rev: <b>B</b>



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

**NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION

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

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**PGT Industries, Inc.**  
**1070 Technology Drive**  
**North Venice, FL 34275**

**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 "PW-701/720/820" Aluminum Fixed Window - L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **MD-720-820.1**, titled "Fixed Window Installation Guidelines", sheets 1 through 11 of 11, dated 04/12/13, with revision B dated 05/05/16, 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, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

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

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

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

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

This NOA revises NOA# **15-0528.26** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



*Handwritten signature and date: 7/29/16*

NOA No. 16-0629.14  
Expiration Date: February 19, 2019  
Approval Date: August 04, 2016  
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under NOA No. 03-1105.01)*
2. Drawing No. **MD-720-820.1**, titled "Fixed Window Installation Guidelines", sheets 1 through 11 of 11, dated 04/12/13, with revision B dated 05/05/16, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

**B. TESTS**

1. 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 PVC sliding glass door, a PVC fixed window and an aluminum sliding glass door, using: Kodispace 4SG TPS spacer system, Duraseal® spacer system, Super Spacer® NXT™ spacer system and XL Edge™ spacer system at insulated glass, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-8717**, **FTL-8968** and **FTL-8970**, dated 11/16/15, 06/07/16 and 06/02/16 respectively, all signed and sealed by Idalmis Ortega, P.E.
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94  
along with marked-up drawings and installation diagram of an aluminum fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7212**, dated 03/21/13, signed and sealed by Marlin D. Brinson, P.E.  
*(Submitted under NOA No. 13-0502.03)*
3. 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  
along with marked-up drawings and installation diagram of an aluminum fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-3835** and **FTL-3850**, dated 07/18/03 and 07/31/03 respectively, all signed and sealed by Joseph C. Chan, P.E.  
*(Submitted under NOA No. 03-1105.01)*



Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 16-0629.14

Expiration Date: February 19, 2019

Approval Date: August 04, 2016

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**C. CALCULATIONS**


1. Anchor verification calculations and structural analysis, complying with **FBC-5<sup>th</sup> Edition (2014)**, dated 05/20/15, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.  
*(Submitted under previous NOA No. 15-0528.26)*
2. Glazing complies with **ASTM E1300-09**

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** for their "**Kuraray Butacite® PVB Glass Interlayer**" dated 04/25/15, expiring on 12/11/16.
2. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their "**Kuraray SentryGlas® (Clear and White) Glass Interlayers**" dated 06/25/15, expiring on 07/04/18.
3. TREMCO Part No. **TR-14271E** EPDM exterior glazing gasket complying with the following:
  - a) ASTM C864 Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers with Option II exceptions.
  - b) ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension of 1600 PSI.
  - c) ASTM D395B Test Methods for Rubber Property—Compression Set for 22 HRS 158°F.
  - d) ASTM D 624 Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers of 143 lb/ in.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 16-0629.14

Expiration Date: February 19, 2019  
Approval Date: August 04, 2016

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC-5<sup>th</sup> Edition (2014)**, dated May 20, 2015, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.  
*(Submitted under previous NOA No. 15-0528.26)*
2. Statement letter of no financial interest, dated May 20, 2015, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.  
*(Submitted under previous NOA No. 15-0528.26)*
3. Laboratory compliance letter for Test Report No. **FTL-7212**, dated 03/21/13, signed and sealed by Marlin D. Brinson, P.E.  
*(Submitted under previous NOA No. 13-0502.03)*
4. Laboratory compliance letter for Test Reports No. **FTL-3835** and **FTL-3850**, dated 07/18/03 and 07/31/03 respectively, all signed and sealed by Joseph C. Chan, P.E.  
*(Submitted under NOA No. 03-1105.01)*
5. Proposal No. **16-0125** issued by the Product Control Section, dated March 09, 2016, signed by Ishaq Chanda, P.E.

**G. OTHERS**

1. Notice of Acceptance No. **15-0528.26**, issued to PGT Industries for their Series “PW-701/720/820” Aluminum Fixed Window – L.M.I.” approved on 07/09/15 and expiring on 02/19/19.



Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 16-0629.14

Expiration Date: February 19, 2019

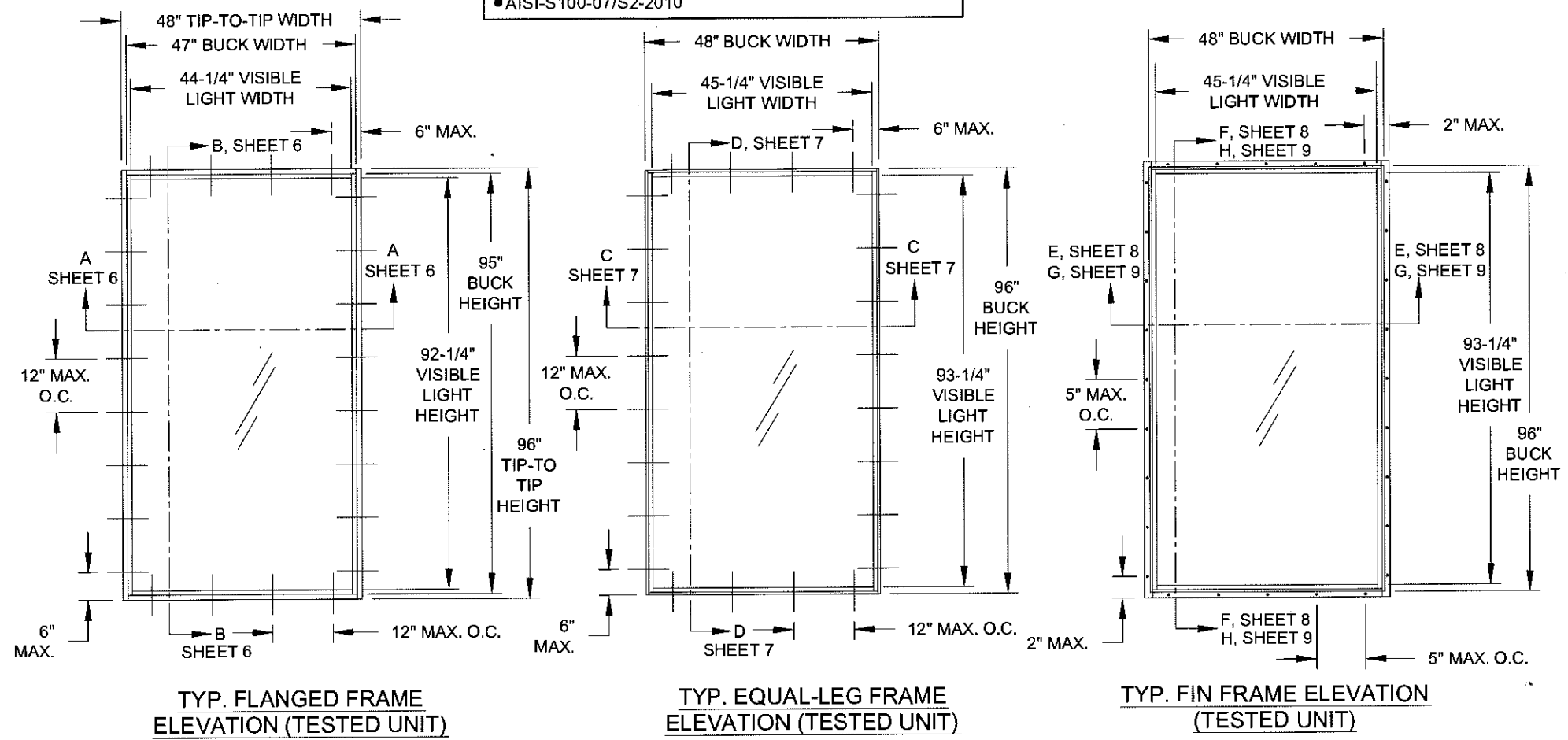
Approval Date: August 04, 2016

**GENERAL NOTES: SERIES 720/820  
IMPACT-RESISTANT FIXED WINDOW**

- THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS. FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, THE OUTBOARD LITE (CAP) MUST TEMPERED.
- 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 AND CONCRETE WITH MIN. KSI PER ANCHOR TYPE.
- 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, (EOR) OR ARCHITECT OF RECORD, (AOR).
- ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT EMBEDMENT. NARROW JOINT SEALANT IS USED ON ALL FOUR CORNERS OF THE FRAME. 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.
- 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 WINDOW.
- DESIGN PRESSURES:  
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL/CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.  
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL/ CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
- 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 FOR CORROSION RESISTANCE.
- REFERENCES: TEST REPORTS FTL-3835, 3850 & 7212; ELCO ULTRACON NOA; ELCO CRETEFLEX NOA; ANSI/AF&PA NDS FOR WOOD CONSTRUCTION AND ALUMINUM DESIGN MANUAL.
- THE 720 SERIES USES A PVB INTERLAYER, THE 820 SERIES USES AN SG INTERLAYER. THE 720 AND 820 SERIES MAY ALSO BE REFERRED AS THE 701 SERIES.

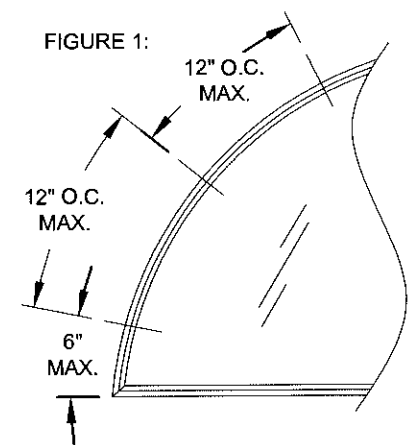
- STANDARDS USED:**
- 2014 FLORIDA BUILDING CODE (FBC), 5TH EDITION
  - ASTM E1300-09
  - ANSI/AF&PA NDS-2012 FOR WOOD CONSTRUCTION
  - ALUMINUM DESIGN MANUAL, ADM-2010
  - AISI-S100-07/S2-2010

DESIGN PRESSURE RATING	IMPACT RATING
VARIABLES, SEE SHEETS 2-5	RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE

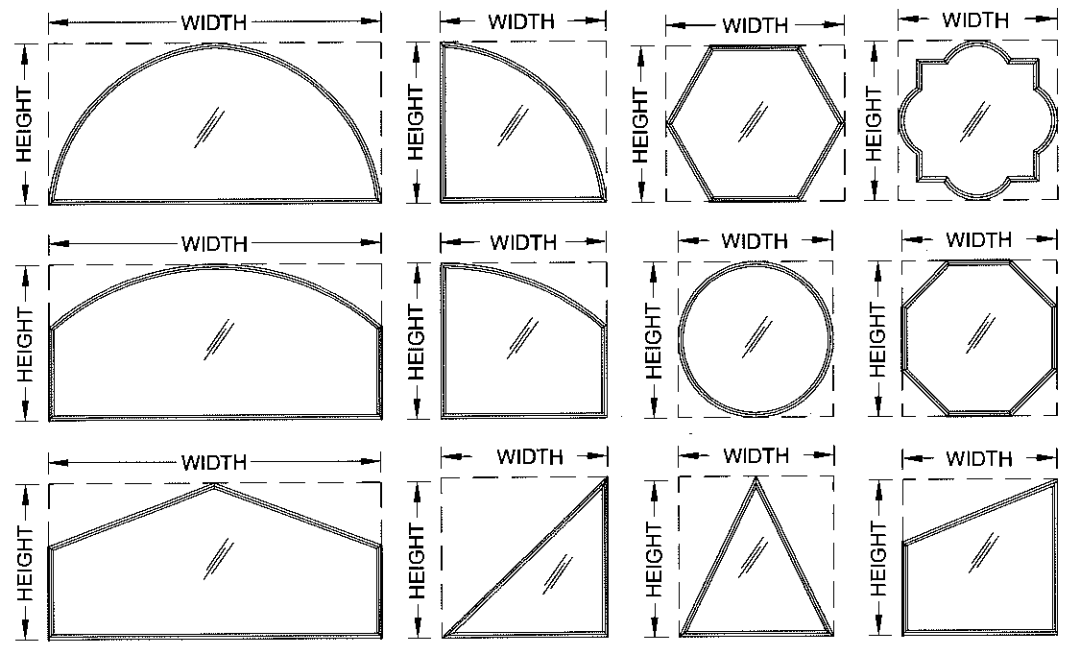


**GUIDE TO SHEETS:**

GENERAL NOTES.....	1
ELEVATIONS.....	1
GLAZING DETAILS.....	2-5
DESIGN PRESSURES.....	2-5
INSTALLATION, FLANGE.....	6
INSTALLATION, EQUAL-LEG.....	7
INSTALLATION, INT. FIN A.....	8
INSTALLATION, INT. FIN B.....	9
CORNER ASSEMBLY.....	10
EXTRUSION PROFILES.....	11
PARTS LIST.....	11



SHAPES AS SHOWN BELOW OR SIMILAR, MAY BE USED BY INSCRIBING THE SHAPE IN A BLOCK AND OBTAINING DESIGN PRESSURES FOR THAT BLOCK SIZE FROM THE TABLES ON SHEETS 2-5. ANCHOR SPACING TO BE 6" MAX. FROM CORNERS AND 12" O.C. MAX. FOR ALL CURVED FRAME MEMBERS, SEE FIGURE 1, THIS SHEET.



**TABLE 1:**

Type #	Description	Sheet #
1	7/16" Lami (3/16" An - .090" PVB - 3/16" HS)	2
2	7/16" Lami (3/16" HS - .090" PVB - 3/16" HS)	2
3	1-1/16" Lami. IG (3/16" T - 7/16" Air - 3/16" An - .090" PVB - 3/16" HS)	3
4	1-1/16" Lami. IG (3/16" T - 7/16" Air - 3/16" HS - .090" PVB - 3/16" HS)	3
5	7/16" Lami (3/16" An - .090" SG - 3/16" An)	4
6	7/16" Lami (3/16" HS - .090" SG - 3/16" HS)	4
7	1-1/16" Lami. IG (3/16" T - 7/16" Air - 3/16" An - .090" SG - 3/16" An)	5
8	1-1/16" Lami. IG (3/16" T - 7/16" Air - 3/16" HS - .090" SG - 3/16" HS)	5

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

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 16-0629, 14 Expiration Date Feb 19, 2019  
By *Manuel Perez*  
Miami Dade Product Control

Rev A  
Rev B  
Rev C  
JR - 05/05/16 - ADDED SHEET 11 WITH SPACERS & MOVED PARTS.

1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274  
(941)-480-1600

CERT. OF AUTH. #29296

FIXED WINDOW INSTALLATION GUIDELINES 4/12/13

GENERAL NOTES & ELEVATION

J ROSOWSKI

MD-720-820.1

1 OF 11

NTS

PW-720  
PW-820

Scale

Sheet

Series Desc.

ANTHONY LYNN MILLER  
LICENSE  
No. 58705  
A. LYNN MILLER, P.E.  
P.E.# 58705

TABLE 2:

		Window Design Pressure (+/-, psf) for Glass Type 1											
		Long Side (in)											
		67-7/8	72	76	80	84	88	92	96	100	104	109-1/2	
Short Side (in)	30	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	
	32	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	
	34	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-79.8	+/-79.4	
	36	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-79.7	+/-77.2	+/-75.1	+/-73.4	+/-72.2
	38	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-78.1	+/-75.2	+/-72.5	+/-70.3	+/-68.5	+/-66.3
	40	+/-80	+/-80	+/-80	+/-79.8	+/-77.2	+/-74.3	+/-71.3	+/-67.9	+/-65.1	+/-63.4	+/-61.6	+/-59.8
	42	+/-80	+/-80	+/-80	+/-77.4	+/-74.3	+/-71.3	+/-68.2	+/-64.7	+/-61.6	+/-59.8	+/-58.2	+/-56.5
	44	+/-80	+/-80	+/-78.9	+/-75.4	+/-72.1	+/-68.9	+/-65.6	+/-62.2	+/-59.7	+/-57.5	+/-55.8	+/-54.1
	46	+/-80	+/-80	+/-77.2	+/-73.6	+/-70.1	+/-66.8	+/-63.5	+/-60.3	+/-57.7	+/-56.0	+/-54.3	+/-52.6
	48	+/-80	+/-79.3	+/-75.6	+/-71.9	+/-68.3	+/-64.9	+/-61.5	+/-58.2	+/-55.5	+/-53.8	+/-52.1	+/-50.4
	50	+/-80	+/-77.5	+/-74.1	+/-70.3	+/-66.7	+/-63.1	+/-59.7	+/-56.9	+/-54.1	+/-51.3	+/-48.5	+/-45.7
	52	+/-79.1	+/-75.6	+/-72.4	+/-68.8	+/-65.1	+/-61.5	+/-58.2	+/-55.5	+/-52.7	+/-50.0	+/-47.2	+/-44.5
	54	+/-77.4	+/-73.8	+/-70.5	+/-67.3	+/-63.5	+/-60.0	+/-56.9	+/-54.1	+/-51.3	+/-48.5	+/-45.7	+/-43.0
	56	+/-75.8	+/-72	+/-68.6	+/-65.3	+/-61.5	+/-58.2	+/-55.5	+/-52.7	+/-50.0	+/-47.2	+/-44.5	+/-41.8
	58	+/-74.2	+/-70.3	+/-66.8	+/-63.5	+/-60.0	+/-56.9	+/-54.1	+/-51.3	+/-48.5	+/-45.7	+/-43.0	+/-40.2
	60	+/-72.7	+/-68.7	+/-65	+/-61.5	+/-58.2	+/-55.5	+/-52.7	+/-50.0	+/-47.2	+/-44.5	+/-41.8	+/-39.1
	62	+/-71.2	+/-67.1	+/-63.5	+/-60.0	+/-56.9	+/-54.1	+/-51.3	+/-48.5	+/-45.7	+/-43.0	+/-40.2	+/-37.5
64	+/-69.7	+/-65.5	+/-62	+/-58.2	+/-55.5	+/-52.7	+/-50.0	+/-47.2	+/-44.5	+/-41.8	+/-39.1	+/-36.4	
66	+/-68.3	+/-64.1	+/-60.5	+/-56.9	+/-54.1	+/-51.3	+/-48.5	+/-45.7	+/-43.0	+/-40.2	+/-37.5	+/-34.8	
67-7/8	+/-67	+/-62.8	+/-59.2	+/-55.6	+/-52.1	+/-48.5	+/-45.0	+/-41.4	+/-37.9	+/-34.3	+/-30.8	+/-27.2	

- NOTES:  
 1) BUCK DIMENSIONS SHOWN. FOR FLANGED WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION TO DETERMINE THE BUCK DIMENSION.  
 2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG DIMENSION.  
 3) FOR ARCHITECTURAL WINDOWS, FIND THE SMALLEST WINDOW SIZE IN THE TABLE ABOVE WHICH THE OVERALL DIMENSIONS COMPLETELY FIT WITHIN.

TABLE 3:

		Window Design Pressure (+/-, psf) for Glass Type 3											
		Long Side (in)											
		67-7/8	72	76	80	84	88	92	96	100	104	109-1/2	
Short Side (in)	30	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	
	32	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	
	34	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	
	36	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	
	38	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-79.4	+/-76.4	+/-74.3	+/-72.2
	40	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-76.7	+/-73.5	+/-70.9	+/-69	+/-66.8
	42	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-77	+/-73.1	+/-69.6	+/-66.9	+/-65.2	+/-63.5
	44	+/-80	+/-80	+/-80	+/-80	+/-80	+/-77.8	+/-74.1	+/-70.3	+/-67.5	+/-63.9	+/-60.2	+/-56.5
	46	+/-80	+/-80	+/-80	+/-80	+/-79.2	+/-75.4	+/-71.7	+/-68.1	+/-65.1	+/-61.4	+/-57.7	+/-54
	48	+/-80	+/-80	+/-80	+/-80	+/-77.2	+/-73.3	+/-69.5	+/-65.8	+/-62.1	+/-58.4	+/-54.7	+/-51
	50	+/-80	+/-80	+/-80	+/-79.4	+/-75.3	+/-71.3	+/-67.5	+/-63.8	+/-60.1	+/-56.4	+/-52.7	+/-49
	52	+/-80	+/-80	+/-80	+/-77.7	+/-73.5	+/-69.5	+/-65.5	+/-61.5	+/-57.5	+/-53.5	+/-49.5	+/-45.5
	54	+/-80	+/-80	+/-79.6	+/-76	+/-71.8	+/-67.8	+/-63.8	+/-59.8	+/-55.8	+/-51.8	+/-47.8	+/-43.8
	56	+/-80	+/-80	+/-77.5	+/-73.8	+/-69.8	+/-65.8	+/-61.8	+/-57.8	+/-53.8	+/-49.8	+/-45.8	+/-41.8
	58	+/-80	+/-79.4	+/-75.4	+/-71.4	+/-67.4	+/-63.4	+/-59.4	+/-55.4	+/-51.4	+/-47.4	+/-43.4	+/-39.4
	60	+/-80	+/-77.6	+/-73.5	+/-69.5	+/-65.5	+/-61.5	+/-57.5	+/-53.5	+/-49.5	+/-45.5	+/-41.5	+/-37.5
	62	+/-80	+/-75.8	+/-71.8	+/-67.8	+/-63.8	+/-59.8	+/-55.8	+/-51.8	+/-47.8	+/-43.8	+/-39.8	+/-35.8
64	+/-78.8	+/-74	+/-70	+/-66	+/-62	+/-58	+/-54	+/-50	+/-46	+/-42	+/-38	+/-34	
66	+/-77.2	+/-73	+/-69	+/-65	+/-61	+/-57	+/-53	+/-49	+/-45	+/-41	+/-37	+/-33	
67-7/8	+/-74.9	+/-70.8	+/-66.8	+/-62.8	+/-58.8	+/-54.8	+/-50.8	+/-46.8	+/-42.8	+/-38.8	+/-34.8	+/-30.8	

- NOTES:  
 1) BUCK DIMENSIONS SHOWN. FOR FLANGED WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION TO DETERMINE THE BUCK DIMENSION.  
 2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG DIMENSION.  
 3) FOR ARCHITECTURAL WINDOWS, FIND THE SMALLEST WINDOW SIZE IN THE TABLE ABOVE WHICH THE OVERALL DIMENSIONS COMPLETELY FIT WITHIN.

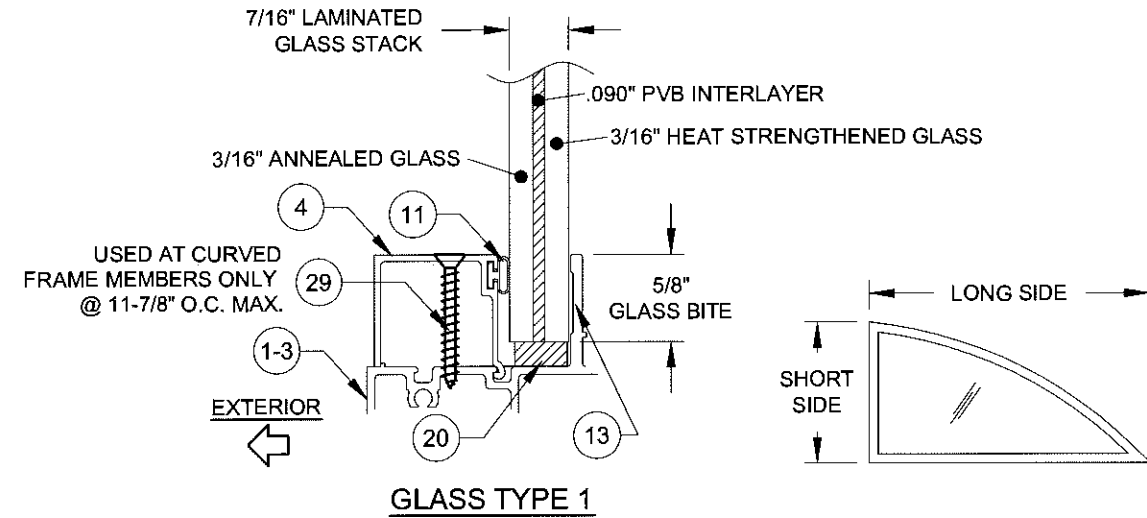
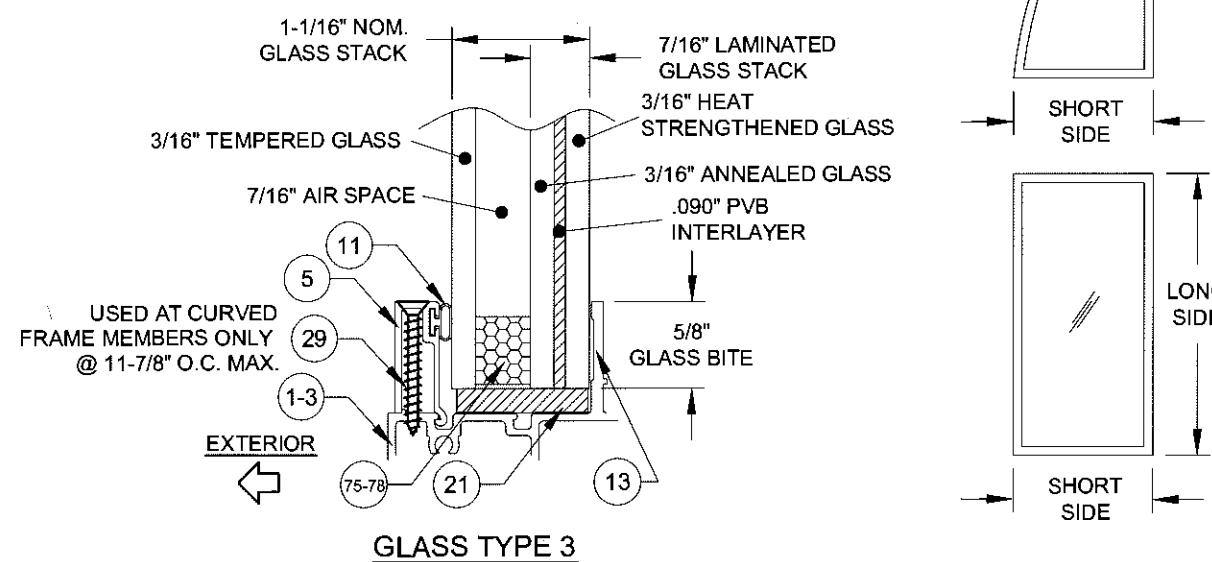


TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.



PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No. 16-0629-14  
 Expiration Date Feb. 19, 2019  
 By *Mmanuel Pava*  
 Miami Dade Product Control

Rev. A
Rev. B
Rev. C

1070 TECHNOLOGY DRIVE  
 N. VENICE, FL 34275  
 P.O. BOX 1529  
 NOKOMIS, FL 34274  
 (941)-480-1600

**RTG**  
 CERT. OF AUTH. #29296

FIXED WINDOW INSTALLATION GUIDELINES  
 Date: 4/12/13  
 Drawn By: J ROSOWSKI  
 No. MD-720-820.1  
 DWG No. 2 OF 11  
 Scale: NTS  
 Series Desc. Title: DESIGN PRESSURE TABLES 1  
 PW-720  
 PW-820

*WZ/TB*  
 6/8/16

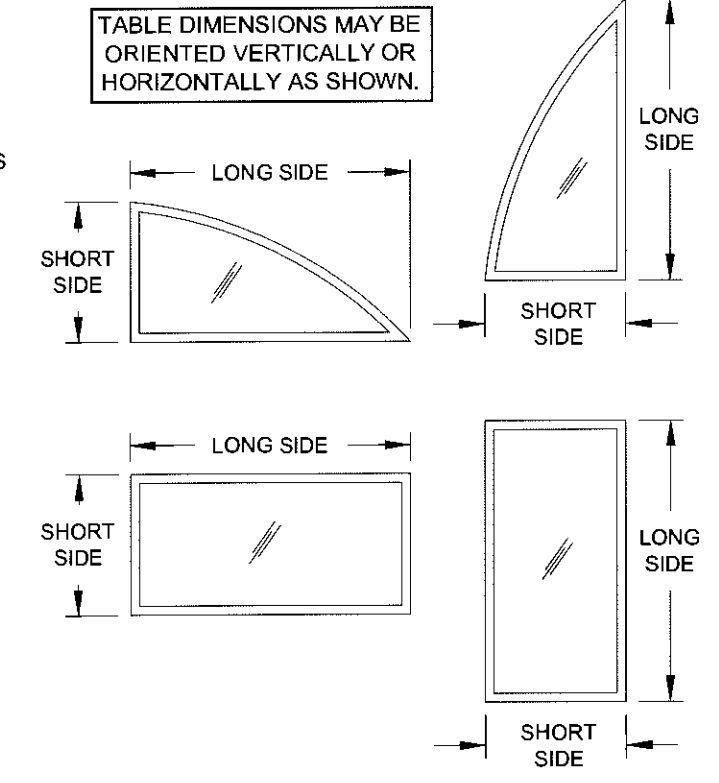
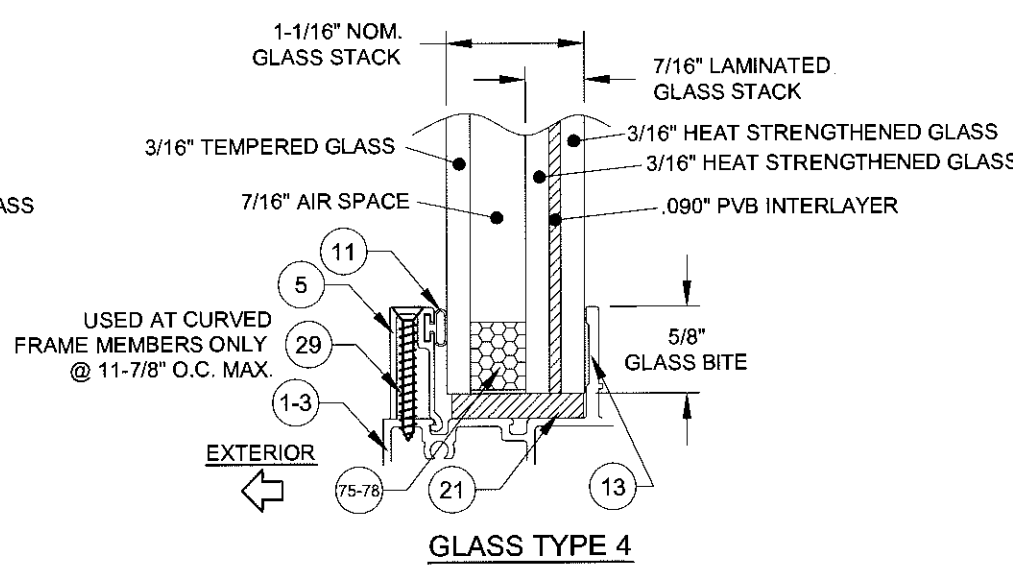
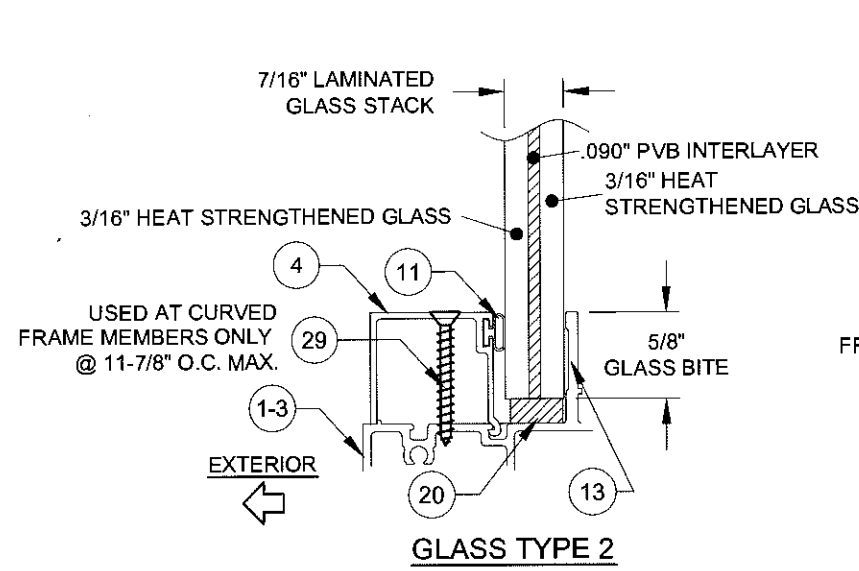
A. LYNN MILLER, P.E.  
 P.E.# 58705



TABLE 4:

		Window Design Pressure (+/-, psf) for Glass Types 2 & 4																			
		Long Side (in)																			
Short Side (in)		67-7/8	72	76	80	84	88	92	96	100	104	109-1/2	112	116	120	124	128	132	136	140	144
30		+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
32		+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
34		+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
36		+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
38		+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
40		+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
42		+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
44		+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
46		+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
48		+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
50		+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
52		+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
54		+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
56		+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
58		+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
60		+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
62		+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
64		+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
66		+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
67-7/8		+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80

NOTES:  
 1) BUCK DIMENSIONS SHOWN. FOR FLANGED WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION TO DETERMINE THE BUCK DIMENSION.  
 2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG DIMENSION.  
 3) FOR ARCHITECTURAL WINDOWS, FIND THE SMALLEST WINDOW SIZE IN THE TABLE ABOVE WHICH THE OVERALL DIMENSIONS COMPLETELY FIT WITHIN.



PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 16-0009-14  
 Expiration Date Feb. 19, 2019  
 By Manuel Perez  
 Miami Design Control

Rev A
Rev B
Rev C

1070 TECHNOLOGY DRIVE  
 N. VENICE, FL 34275  
 P.O. BOX 1529  
 NOKOMIS, FL 34274  
 (941)-480-1600

CERT. OF AUTH. #29296

FIXED WINDOW INSTALLATION GUIDELINES

DESIGN PRESSURE TABLES 2

Series Desc. Title

PW-720  
 PW-820

Scale

NTS

Sheet

3 OF 11

DWG No.

MD-720-820.1

Rev.

B

Date

4/12/13

Drawn By

J ROSOWSKI

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

6/8/16

TABLE 5:

		Window Design Pressure (+/-, psf) for Glass Type 5										
		Long Side (in)										
		67-7/8	72	76	80	84	88	92	96	100	104	109-1/2
Short Side (in)	30	+90/-125.4	+90/-120	+90/-115.5	+90/-111.5	+90/-108.5	+90/-106	+90/-104.5	+90/-103.5	+90/-102.5	+90/-100.7	+90/-97.9
	32	+90/-116.9	+90/-110.8	+90/-105.3	+90/-101.6	+90/-98.7	+90/-95.7	+90/-92.3	+90/-90.6	+90/-90.3	+/-89.9	+/-89
	34	+90/-108.9	+90/-103	+90/-98.8	+90/-95.1	+90/-91.8	+/-88.2	+/-84.4	+/-81.5	+/-80.1	+/-79.8	+/-79.4
	36	+90/-102.6	+90/-97.1	+90/-92.8	+/-88.9	+/-85.5	+/-82.6	+/-79.7	+/-77.2	+/-75.1	+/-73.4	+/-72.2
	38	+90/-98.4	+90/-92.2	+/-86.7	+/-83.2	+/-80.7	+/-78.1	+/-75.2	+/-72.5	+/-70.3	+/-68.5	+/-66.3
	40	+90/-94.6	+/-88.2	+/-82.6	+/-79.8	+/-77.2	+/-74.3	+/-71.3	+/-67.9	+/-65.1	+/-63.4	+/-61.6
	42	+90/-91.3	+/-84.7	+/-80.7	+/-77.4	+/-74.3	+/-71.3	+/-68.2	+/-64.7	+/-61.6	+/-59.8	+/-58.2
	44	+/-88.3	+/-82.4	+/-78.9	+/-75.4	+/-72.1	+/-68.9	+/-65.6	+/-62.2	+/-59.7	+/-57.5	
	46	+/-85.4	+/-80.8	+/-77.2	+/-73.6	+/-70.1	+/-66.8	+/-63.5	+/-60.3	+/-57.7		
	48	+/-82.7	+/-79.3	+/-75.6	+/-71.9	+/-68.3	+/-64.9	+/-61.5	+/-58.2			
	50	+/-80.9	+/-77.5	+/-74.1	+/-70.3	+/-66.7	+/-63.1	+/-59.7				
	52	+/-79.1	+/-75.6	+/-72.4	+/-68.8	+/-65.1	+/-61.5					
	54	+/-77.4	+/-73.8	+/-70.5	+/-67.3	+/-63.5						
	56	+/-75.8	+/-72	+/-68.6	+/-65.3							
	58	+/-74.2	+/-70.3	+/-66.8								
	60	+/-72.7	+/-68.7	+/-65								
62	+/-71.2	+/-67.1										
64	+/-69.7	+/-65.5										
66	+/-68.3											
67-7/8	+/-67											

- NOTES:  
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 3) FOR ARCHITECTURAL WINDOWS, FIND THE SMALLEST WINDOW SIZE IN THE TABLE ABOVE WHICH THE OVERALL DIMENSIONS COMPLETELY FIT WITHIN.  
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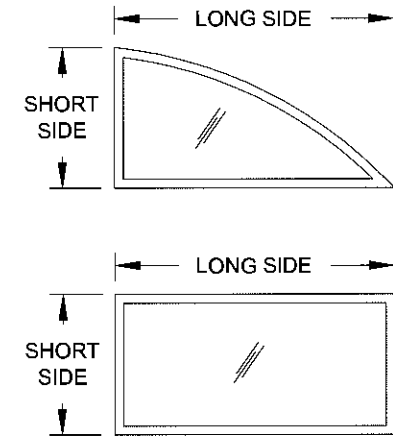
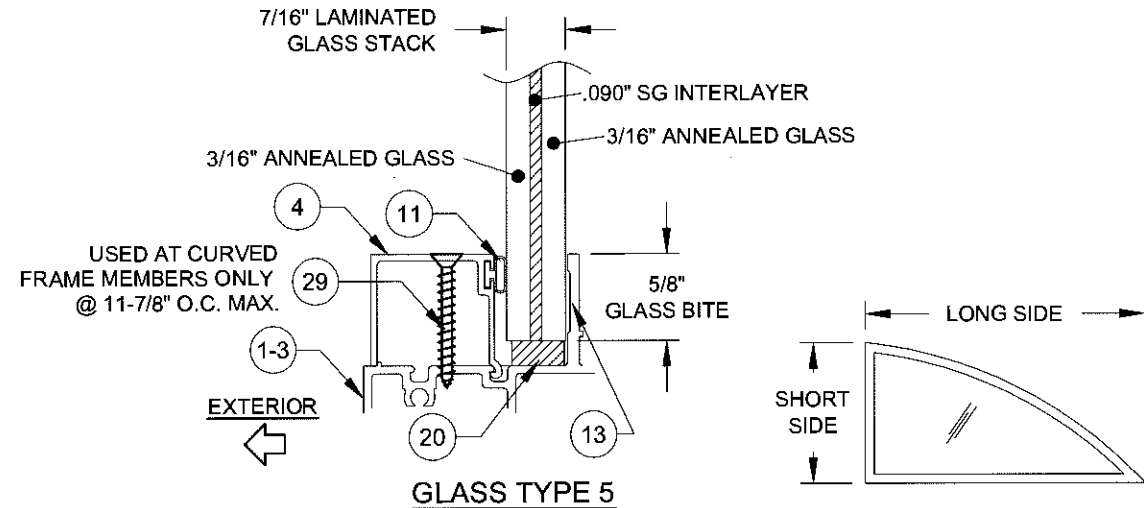
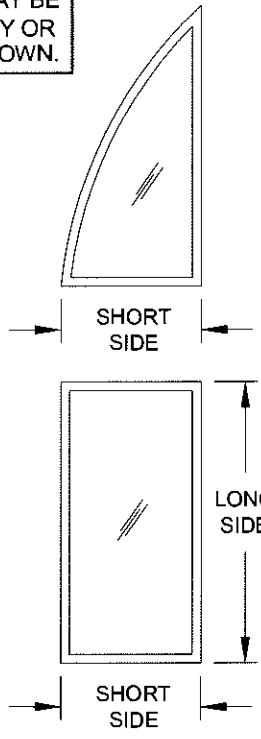
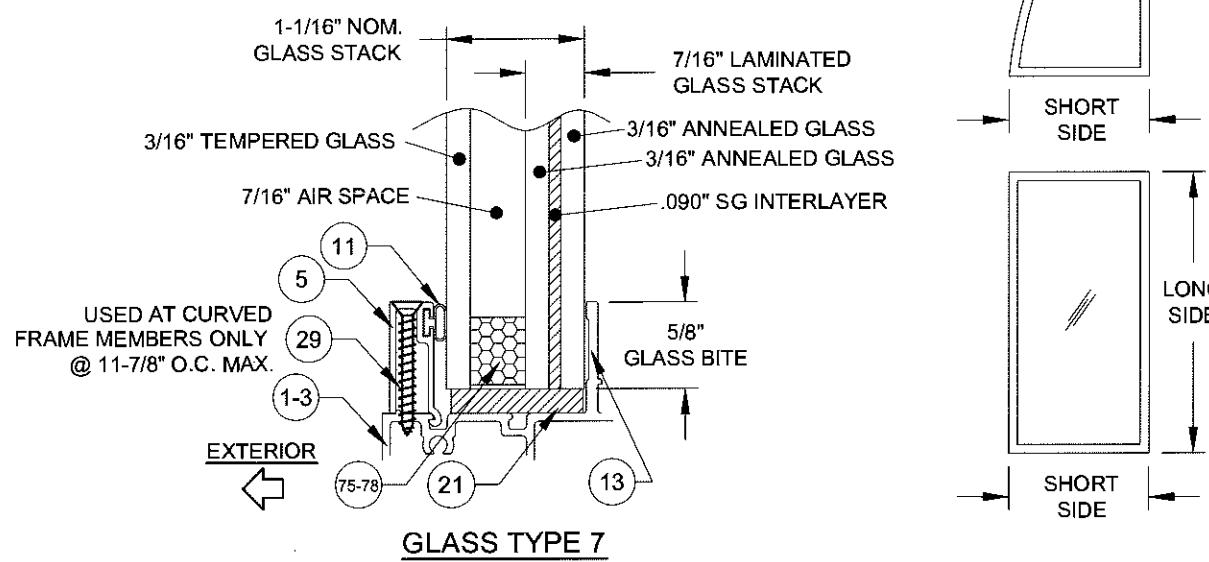


TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.

TABLE 6:

		Window Design Pressure (+/-, psf) for Glass Type 7										
		Long Side (in)										
		67-7/8	72	76	80	84	88	92	96	100	104	109-1/2
Short Side (in)	30	+90/-130	+90/-130	+90/-130	+90/-126	+90/-122.6	+90/-119.8	+90/-118.1	+90/-117	+90/-115.8	+90/-112.7	+90/-109.9
	32	+90/-130	+90/-125.1	+90/-118.9	+90/-114.8	+90/-111.5	+90/-108.1	+90/-104.3	+90/-102.4	+90/-102	+90/-101.4	+90/-99.7
	34	+90/-123.1	+90/-116.4	+90/-111.7	+90/-107.5	+90/-103.8	+90/-99.7	+90/-95.3	+90/-92.1	+90/-90.5	+/-90	+/-89.6
	36	+90/-116	+90/-109.8	+90/-104.8	+90/-100.5	+90/-96.6	+90/-93.3	+/-90	+/-87.3	+/-84.9	+/-82.3	+/-81.2
	38	+90/-111.2	+90/-104.2	+90/-97.9	+90/-94	+90/-91.1	+/-88.2	+/-84.9	+/-81.9	+/-79.4	+/-76.4	+/-74.3
	40	+90/-106.9	+90/-99.6	+90/-93.4	+90/-90.1	+/-87.2	+/-84	+/-80.5	+/-76.7	+/-73.5	+/-70.9	+/-69
	42	+90/-103.2	+90/-95.7	+90/-91.2	+/-87.4	+/-84	+/-80.6	+/-77	+/-73.1	+/-69.6	+/-66.9	+/-65.2
	44	+90/-99.7	+90/-93.1	+/-89.1	+/-85.2	+/-81.4	+/-77.8	+/-74.1	+/-70.3	+/-67.5	+/-63.9	
	46	+90/-96.5	+90/-91.3	+/-87.2	+/-83.2	+/-79.2	+/-75.4	+/-71.7	+/-68.1	+/-65.1		
	48	+90/-93.5	+/-89.6	+/-85.4	+/-81.2	+/-77.2	+/-73.3	+/-69.5	+/-65.8			
	50	+90/-91.4	+/-87.6	+/-83.7	+/-79.4	+/-75.3	+/-71.3	+/-67.5				
	52	+/-89.4	+/-85.5	+/-81.8	+/-77.7	+/-73.5	+/-69.5					
	54	+/-87.5	+/-83.4	+/-79.6	+/-76	+/-71.8						
	56	+/-85.6	+/-81.4	+/-77.5	+/-73.8							
	58	+/-83.8	+/-79.4	+/-75.4								
	60	+/-82.1	+/-77.6	+/-73.5								
62	+/-80.4	+/-75.8										
64	+/-78.8	+/-74										
66	+/-77.2											
67-7/8	+/-74.9											

- NOTES:  
 1) BUCK DIMENSIONS SHOWN. FOR FLANGED WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION TO DETERMINE THE BUCK DIMENSION.  
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PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No. 16-06291A  
 Expiration Date Feb. 14, 2019  
 By: [Signature]  
 Miami Dade Product Control

Rev. A	
Rev. B	
Rev. C	

1070 TECHNOLOGY DRIVE  
 N. VENICE, FL 34275  
 P.O. BOX 1529  
 NOKOMIS, FL 34274  
 (941)-480-1600

CERT. OF AUTH. #29296

FIXED WINDOW INSTALLATION GUIDELINES  
 Date: 4/12/13  
 Drawn By: J ROSOWSKI  
 Title: DESIGN PRESSURE TABLES 3  
 Scale: PW-720 PW-820  
 Sheet: 4 OF 11  
 DWG No.: MD-720-820.1  
 Rev. B

[Signature]  
 A. LYNN MILLER, P.E.  
 P.E.# 58705

TABLE 7:

		Window Design Pressure (+/-, psf) for Glass Types 6 & 8																				
		Long Side (in)																				
		67-7/8	72	76	80	84	88	92	96	100	104	109-1/2	112	116	120	124	128	132	136	140	144	
Short Side (in)	30	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	
	32	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	34	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	36	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	38	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	40	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-126.8	+90/-123.2	+90/-122								
	42	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-129.3	+90/-123.2	+90/-119.7	+90/-116.4									
	44	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-124.5	+90/-119.4	+90/-115										
	46	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-126.9	+90/-120.5	+90/-115.3											
	48	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-129.7	+90/-123	+90/-116.5													
	50	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-126.2	+89.4/-119.5														
	52	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+88.8/-123															
	54	+90/-130	+90/-130	+90/-130	+90/-130	+88.8/-127.1																
	56	+90/-130	+90/-130	+90/-130	+89.4/-129																	
	58	+90/-130	+90/-130	+90/-130																		
	60	+90/-130	+90/-130	+89.6/-129.3																		
	62	+90/-130	+90/-130																			
	64	+90/-130	+90/-130																			
	66	+90/-130																				
67-7/8	+90/-130																					

- NOTES:
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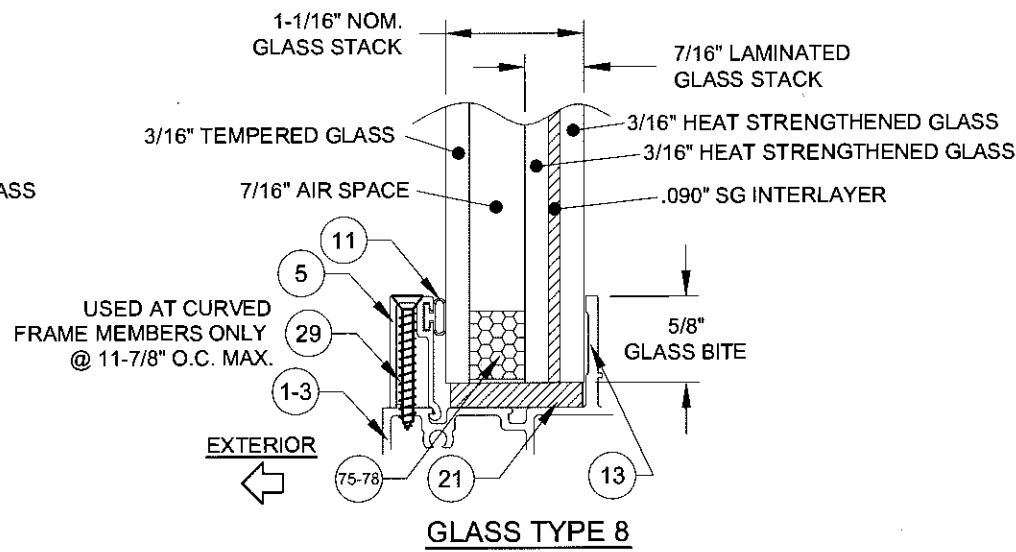
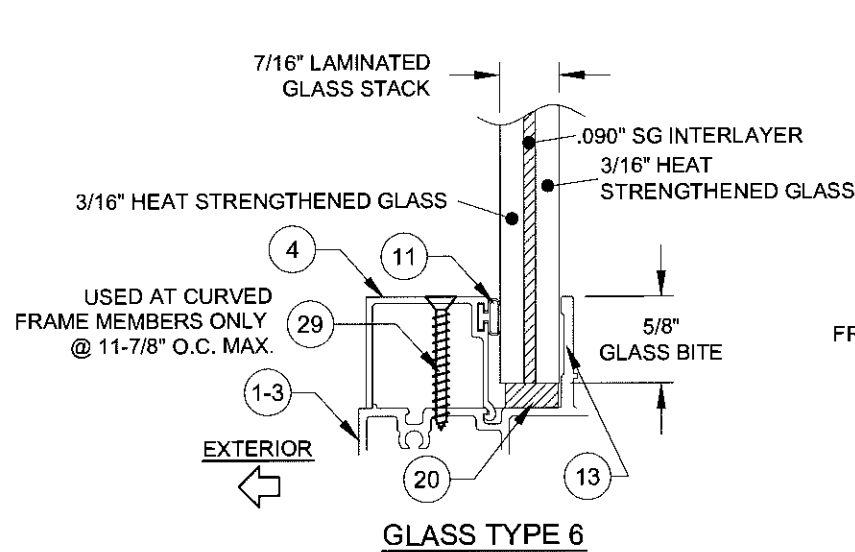
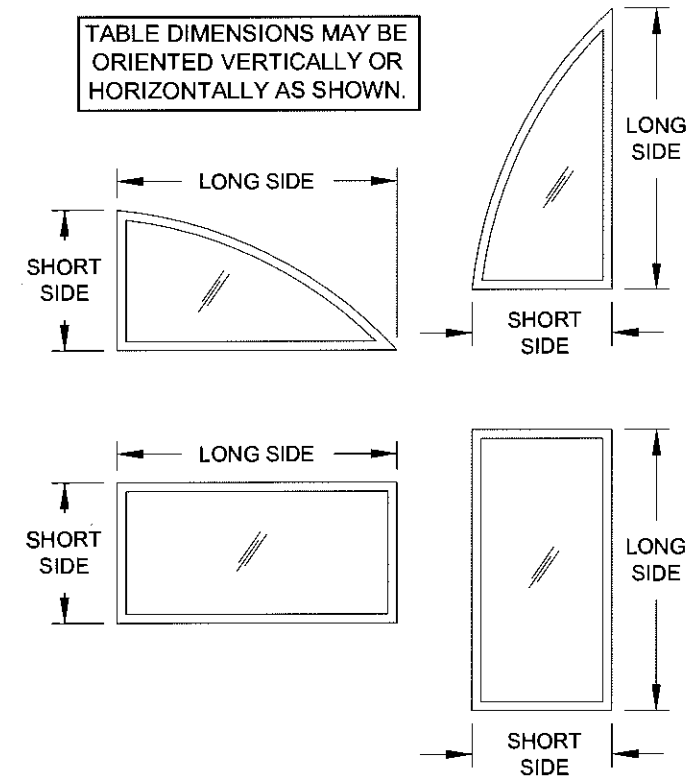


TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.



PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No 16-0629.14  
 Expiration Date Feb. 19, 2019  
 By Manuel Perez  
 Miami Dade Product Control

Rev A	
Rev B	
Rev C	

1070 TECHNOLOGY DRIVE  
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CERT. OF AUTH. #29296

FIXED WINDOW INSTALLATION GUIDELINES  
 Date 4/12/13  
 Drawn By J ROSOWSKI  
 No. MD-720-820.1  
 DWG 5 OF 11  
 Sheet NTS  
 Scale  
 Series PW-720  
 Desc. PW-820  
 Title

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

6/8/16

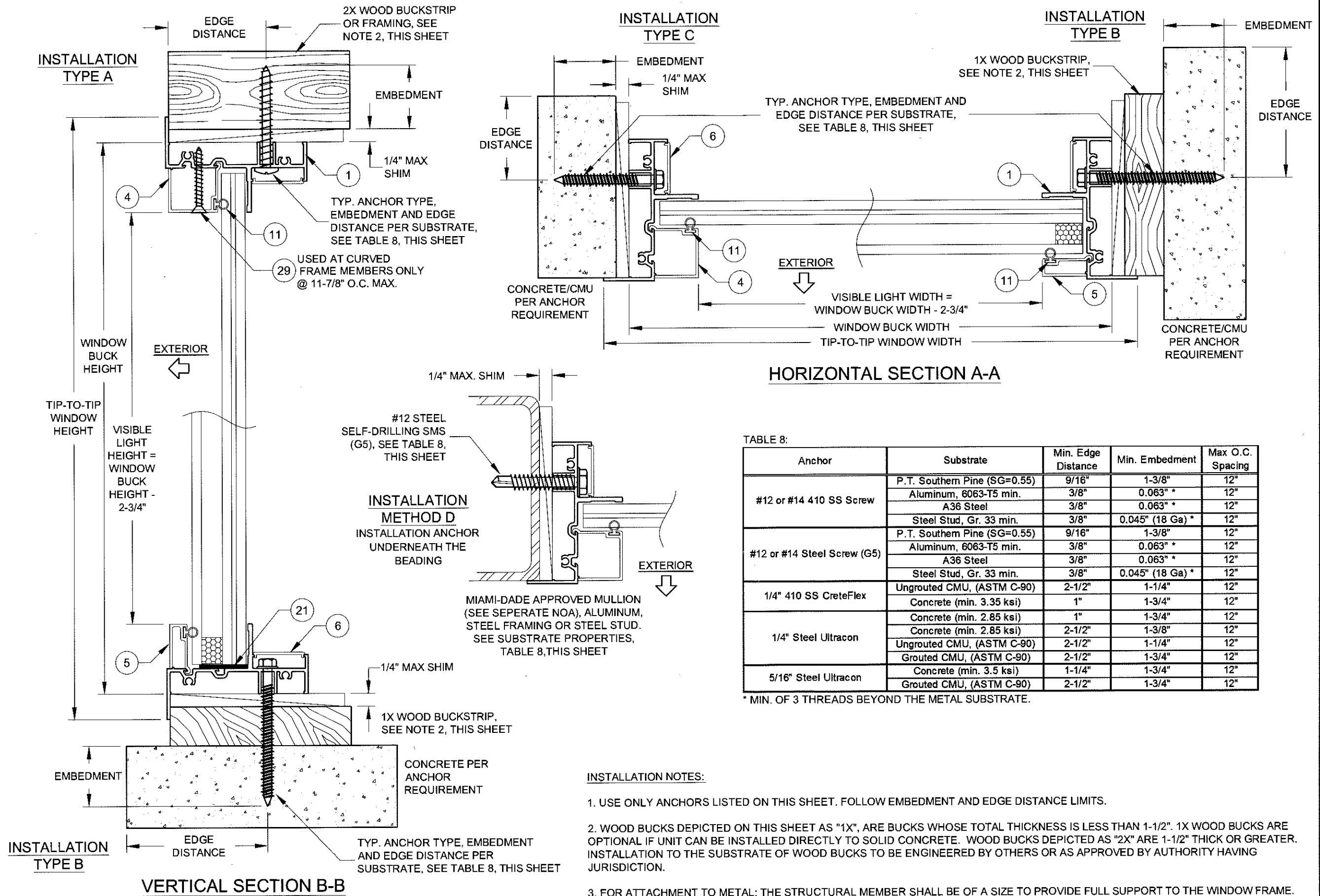


TABLE 8:

Anchor	Substrate	Min. Edge Distance	Min. Embedment	Max O.C. Spacing
#12 or #14 410 SS Screw	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"	12"
	Aluminum, 6063-T5 min.	3/8"	0.063" *	12"
	A36 Steel	3/8"	0.063" *	12"
#12 or #14 Steel Screw (G5)	Steel Stud, Gr. 33 min.	3/8"	0.045" (18 Ga) *	12"
	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"	12"
	Aluminum, 6063-T5 min.	3/8"	0.063" *	12"
1/4" 410 SS CreteFlex	A36 Steel	3/8"	0.063" *	12"
	Steel Stud, Gr. 33 min.	3/8"	0.045" (18 Ga) *	12"
	UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"	12"
1/4" Steel Ultracon	Concrete (min. 3.35 ksi)	1"	1-3/4"	12"
	Concrete (min. 2.85 ksi)	1"	1-3/4"	12"
	UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"	12"
5/16" Steel Ultracon	Grouted CMU, (ASTM C-90)	2-1/2"	1-3/4"	12"
	Concrete (min. 3.5 ksi)	1-1/4"	1-3/4"	12"
	Grouted CMU, (ASTM C-90)	2-1/2"	1-3/4"	12"

\* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

**INSTALLATION NOTES:**

1. USE ONLY ANCHORS LISTED ON THIS SHEET. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS.
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 SOLID CONCRETE. 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 AUTHORITY HAVING JURISDICTION.
3. FOR ATTACHMENT TO METAL: THE STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE WINDOW FRAME.
4. IF APPLICABLE, LOWER DESIGN PRESSURE FROM EITHER WINDOW OR MULLION NOA APPLIES TO WHOLE SYSTEM.

PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No 16-0629.14  
 Expiration Date Feb 19, 2019  
 By *Manuel Jerez*  
 Miami Dade Product Control

Rev A	
Rev B	
Rev C	

1070 TECHNOLOGY DRIVE  
 N. VENICE, FL 34275  
 P.O. BOX 1529  
 NOKOMIS, FL 34274  
 (941)-480-1600

CERT. OF AUTH. #29296

FIXED WINDOW INSTALLATION GUIDELINES

FLANGE INSTALLATION

J ROSOWSKI

4/12/13

MD-720-820.1

6 OF 11

NTS

PW-720  
PW-820

Rev. B  
Rev. A

*6/8/16*

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

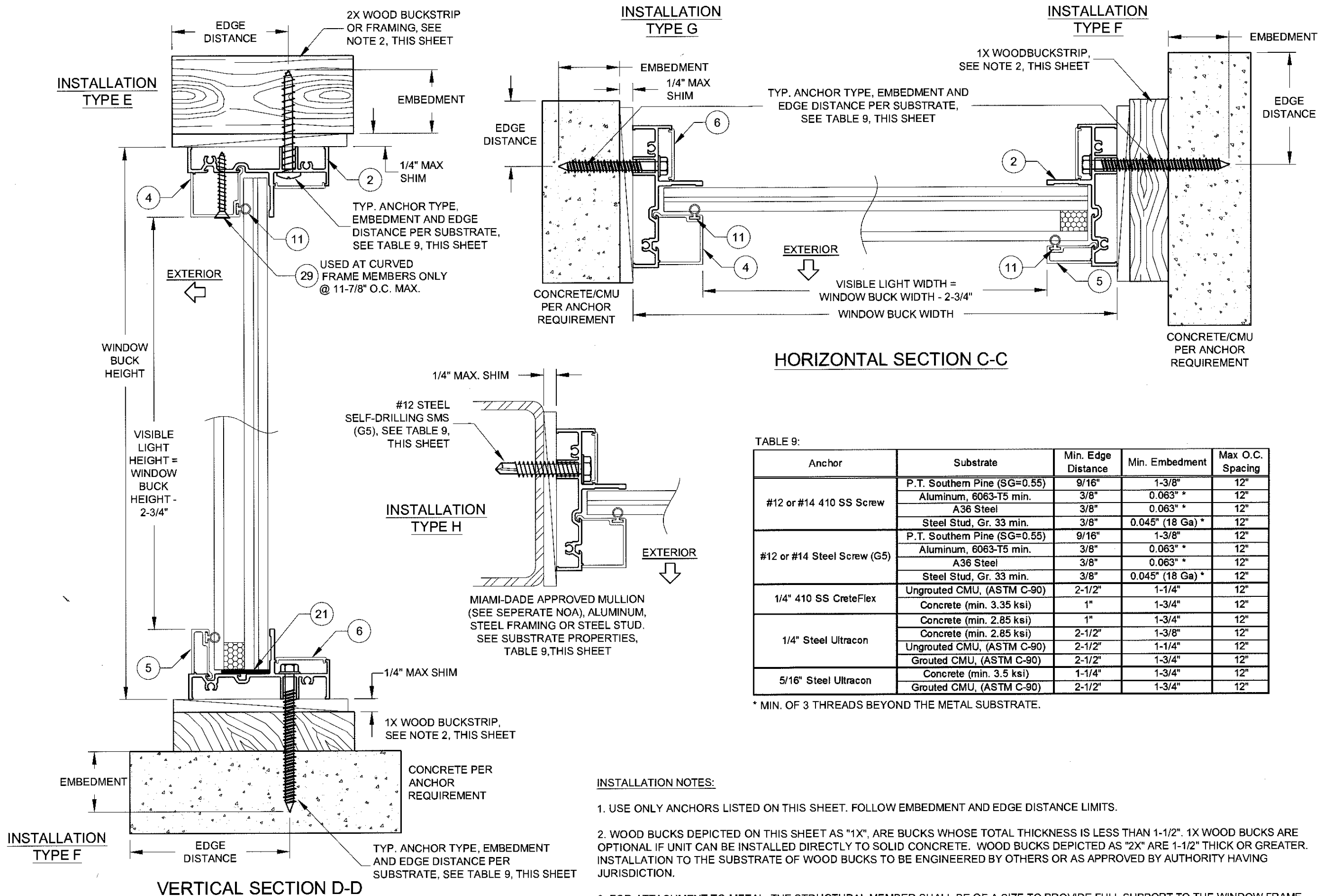


TABLE 9:

Anchor	Substrate	Min. Edge Distance	Min. Embedment	Max O.C. Spacing
#12 or #14 410 SS Screw	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"	12"
	Aluminum, 6063-T5 min.	3/8"	0.063" *	12"
	A36 Steel	3/8"	0.063" *	12"
	Steel Stud, Gr. 33 min.	3/8"	0.045" (18 Ga) *	12"
#12 or #14 Steel Screw (G5)	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"	12"
	Aluminum, 6063-T5 min.	3/8"	0.063" *	12"
	A36 Steel	3/8"	0.063" *	12"
	Steel Stud, Gr. 33 min.	3/8"	0.045" (18 Ga) *	12"
1/4" 410 SS CreteFlex	UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"	12"
	Concrete (min. 3.35 ksi)	1"	1-3/4"	12"
1/4" Steel Ultracon	Concrete (min. 2.85 ksi)	2-1/2"	1-3/8"	12"
	UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"	12"
	Grouted CMU, (ASTM C-90)	2-1/2"	1-3/4"	12"
	Concrete (min. 3.5 ksi)	1-1/4"	1-3/4"	12"
5/16" Steel Ultracon	Concrete (min. 3.5 ksi)	1-1/4"	1-3/4"	12"
	Grouted CMU, (ASTM C-90)	2-1/2"	1-3/4"	12"

\* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

**INSTALLATION NOTES:**

1. USE ONLY ANCHORS LISTED ON THIS SHEET. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS.
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PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No 16-0629.14  
 Expiration Date Feb 19, 2019  
 By *Manuel Juez*  
 Miami Dade Product Control

Rev A	
Rev B	
Rev C	

1070 TECHNOLOGY DRIVE  
 N. VENICE, FL 34275  
 P.O. BOX 1529  
 NOKOMIS, FL 34274  
 (941)-480-1600

**RG**  
 CERT. OF AUTH. #29296

FIXED WINDOW INSTALLATION GUIDELINES  
 EQUAL-LEG INSTALLATION

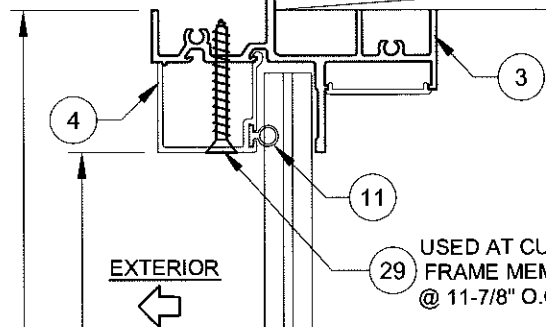
4/12/13  
 J ROSOWSKI  
 MD-720-820.1  
 7 OF 11  
 NTS  
 PW-720  
 PW-820

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

*az*  
 6/8/16

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE 10, THIS SHEET

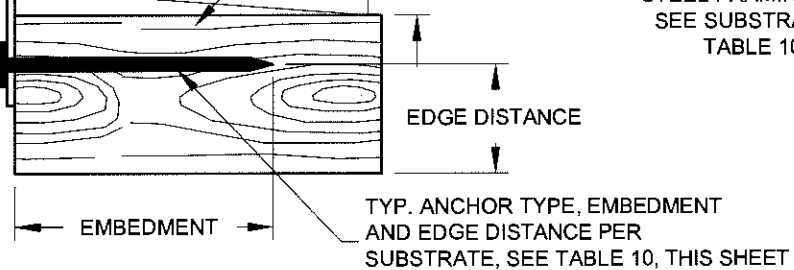
**INSTALLATION TYPE I**



WINDOW BUCK HEIGHT

VISIBLE LIGHT HEIGHT = WINDOW BUCK HEIGHT - 2-3/4"

**INSTALLATION TYPE J**



**VERTICAL SECTION F-F**

2X WOOD BUCKSTRIP OR FRAMING, SEE NOTE 2, THIS SHEET

EDGE DISTANCE

1/4" MAX SHIM

**INSTALLATION TYPE L**

#10 STEEL SELF-DRILLING SMS (G5), SEE TABLE 10, THIS SHEET

2X WOOD BUCKSTRIP OR FRAMING, SEE NOTE 2, THIS SHEET

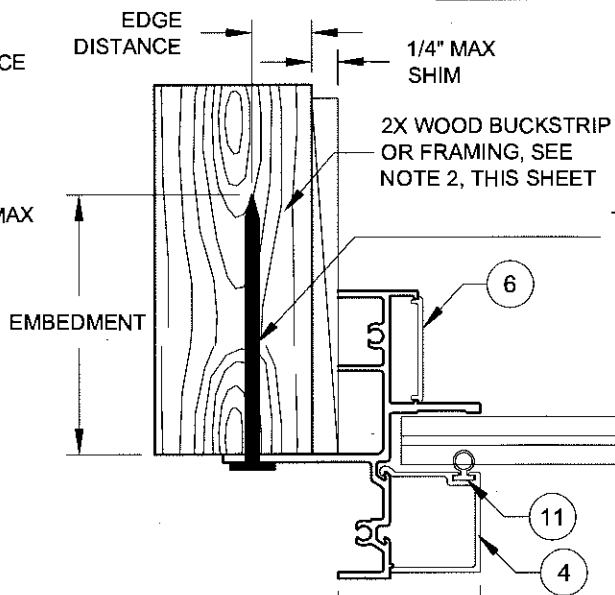
1/4" MAX SHIM

MIAMI-DADE APPROVED MULLION (SEE SEPERATE NOA), ALUMINUM, STEEL FRAMING OR STEEL STUD. SEE SUBSTRATE PROPERTIES, TABLE 10, THIS SHEET

EDGE DISTANCE

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE 10, THIS SHEET

**INSTALLATION TYPE J**



**HORIZONTAL SECTION E-E**

VISIBLE LIGHT WIDTH = WINDOW BUCK WIDTH - 2-3/4"

**INSTALLATION TYPE K**

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE 10, THIS SHEET

EDGE DISTANCE

2X WOOD BUCKSTRIP OR FRAMING, SEE NOTE 2, THIS SHEET

EMBEDMENT

EXTERIOR

TABLE 10:

Anchor	Substrate	Min. Edge Distance	Max. O.C. Spacing
2-1/2" x .113" Box Nail	P.T. Southern Pine (SG=0.55)	5/16"	5"
2-1/2" x .131" Common Nail	P.T. Southern Pine (SG=0.55)	3/8"	5"
2-1/2" x .145" Roofing Nail	P.T. Southern Pine (SG=0.55)	3/8"	5"
#10 x 1" Steel Screw*	P.T. Southern Pine (SG=0.55)	1/2"	5"
	0.093" Aluminum, 6063-T5 min.	5/16"	5"
	1/16" A36 Steel	5/16"	5"
	0.045" (18 Ga) Steel Stud, Gr. 33	5/16"	5"

\* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

**INSTALLATION NOTES:**

1. USE ONLY ANCHORS LISTED ON THIS SHEET. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS.
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 SOLID CONCRETE. 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 AUTHORITY HAVING JURISDICTION.
3. FOR ATTACHMENT TO METAL: THE STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE WINDOW FRAME.
4. IF APPLICABLE, LOWER DESIGN PRESSURE FROM EITHER WINDOW OR MULLION NOA APPLIES TO WHOLE SYSTEM.

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 16-0629.14 Expiration Date Feb 19, 2019  
By *W. J. Miller*  
Miami-Dade Product Control

Rev. A	
Rev. B	
Rev. C	

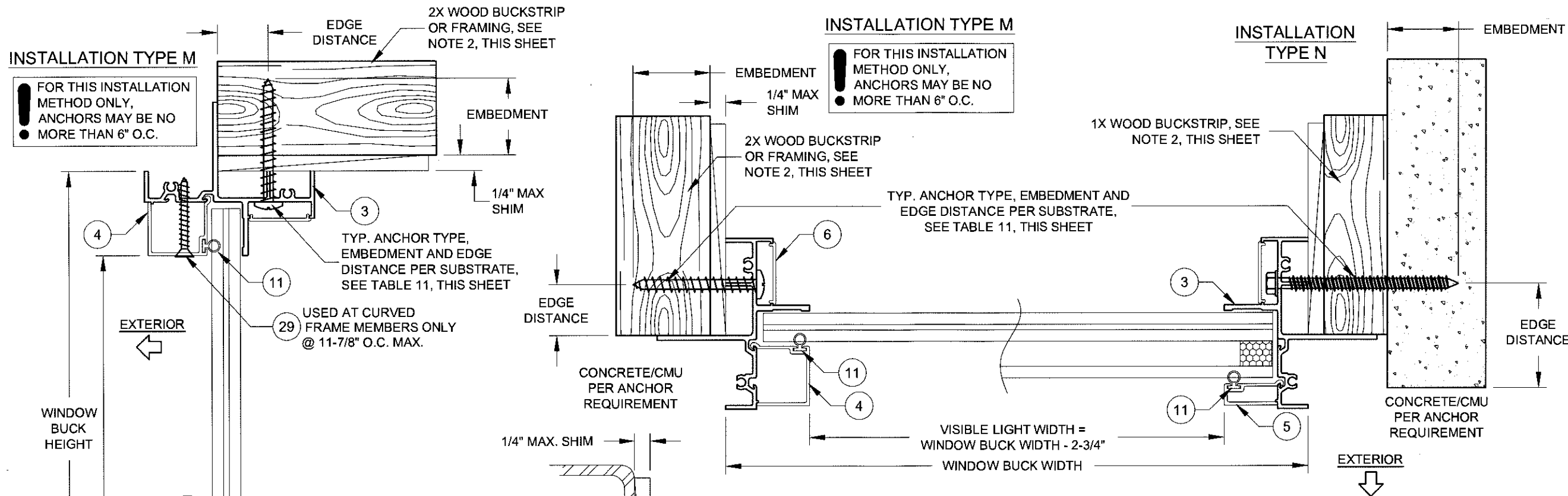
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274  
(941)-480-1600

**DRG**  
CERT. OF AUTH. #29296

FIXED WINDOW INSTALLATION GUIDELINES 4/12/13  
FIN INSTALLATION  
J ROSOWSKI  
MD-720-820.1  
8 OF 11  
PW-720  
PW-820

*W. J. Miller*  
6/8/16

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



**INSTALLATION TYPE M**

**INSTALLATION TYPE N**

**INSTALLATION TYPE M**

FOR THIS INSTALLATION METHOD ONLY, ANCHORS MAY BE NO MORE THAN 6" O.C.

FOR THIS INSTALLATION METHOD ONLY, ANCHORS MAY BE NO MORE THAN 6" O.C.

**INSTALLATION TYPE O**

FOR THIS INSTALLATION METHOD ONLY, ANCHORS MAY BE NO MORE THAN 6" O.C.

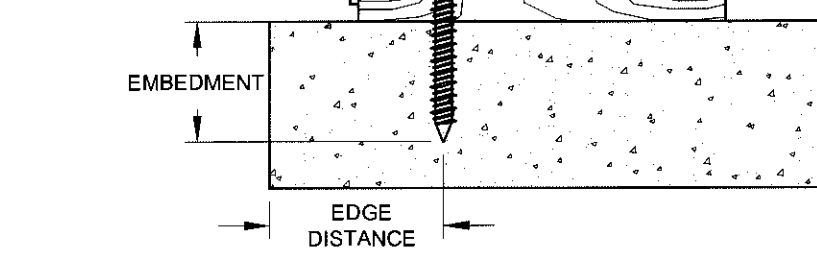
**HORIZONTAL SECTION G-G**

TABLE 11:

Anchor	Substrate	Min. Edge Distance	Min. Embedment	Max. O.C. Spacing
#12 or #14 410 SS Screw	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"	6"
	Aluminum, 6063-T5 min.	3/8"	0.063" *	6"
	A36 Steel	3/8"	0.063" *	6"
#12 or #14 Steel Screw (G5)	Steel Stud, Gr. 33 min.	3/8"	0.045" (18 Ga) *	6"
	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"	6"
	Aluminum, 6063-T5 min.	3/8"	0.063" *	6"
1/4" 410 SS CreteFlex	A36 Steel	3/8"	0.063" *	6"
	Steel Stud, Gr. 33 min.	3/8"	0.045" (18 Ga) *	6"
	UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"	12"
1/4" Steel Ultracon	Concrete (min. 3.35 ksi)	1"	1-3/4"	12"
	Concrete (min. 2.85 ksi)	1"	1-3/4"	12"
	Concrete (min. 2.85 ksi)	2-1/2"	1-3/8"	12"
	UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"	12"
5/16" Steel Ultracon	Grouted CMU, (ASTM C-90)	2-1/2"	1-3/4"	12"
	Concrete (min. 3.5 ksi)	1-1/4"	1-3/4"	12"
	Grouted CMU, (ASTM C-90)	2-1/2"	1-3/4"	12"

\* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

**INSTALLATION TYPE N**



**VERTICAL SECTION H-H**

**INSTALLATION NOTES:**

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PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 16-0629-14 Expiration Date Feb. 19, 2019 By Manuel Jerez Miami Dade Product Control

Rev. A	
Rev. B	
Rev. C	

1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274  
(941)-480-1600

CERT. OF AUTH. #29296

FIXED WINDOW INSTALLATION GUIDELINES 4/12/13

FIN INSTALLATION J ROSOWSKI

MD-720-820.1

9 OF 11

PW-720  
PW-820

Scale: NTS

Sheet: 9 OF 11

DWG No. MD-720-820.1

Rev. B

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

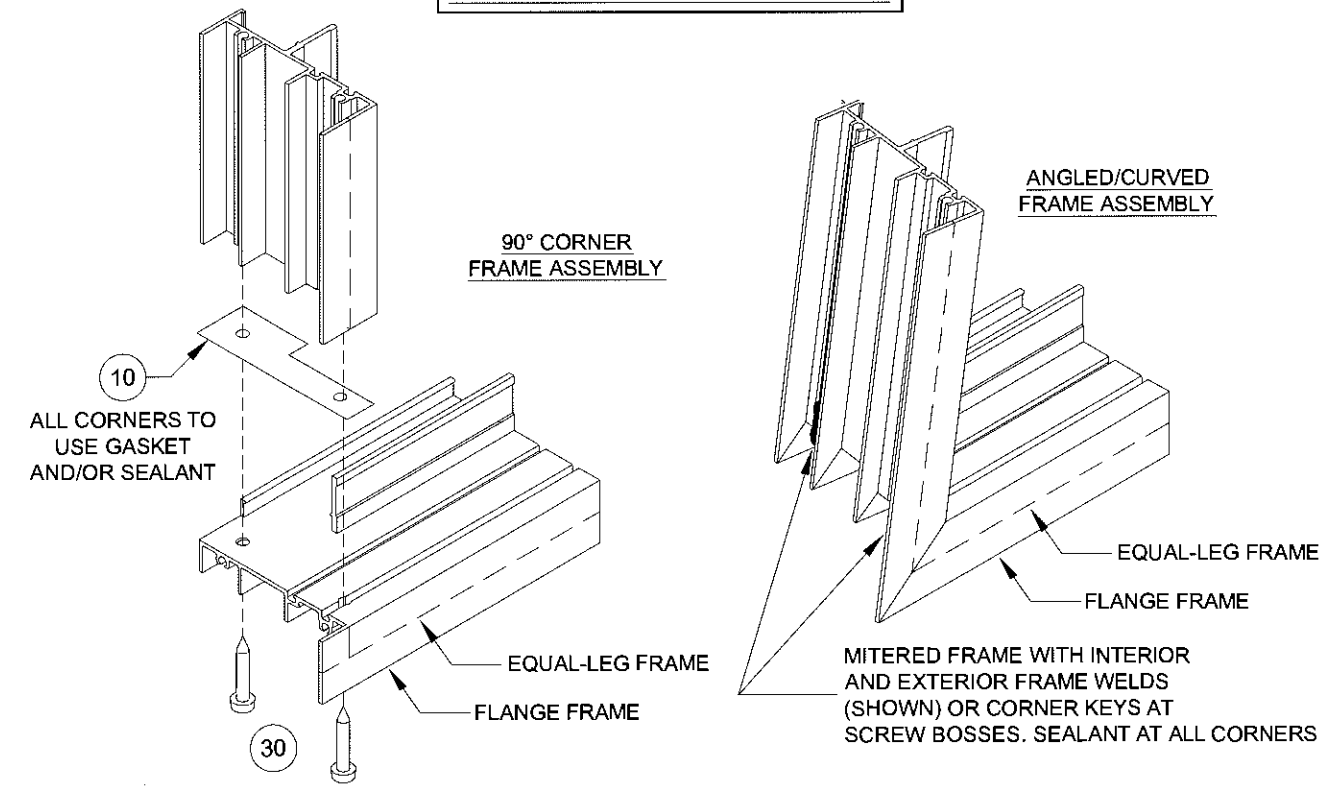
6/8/16



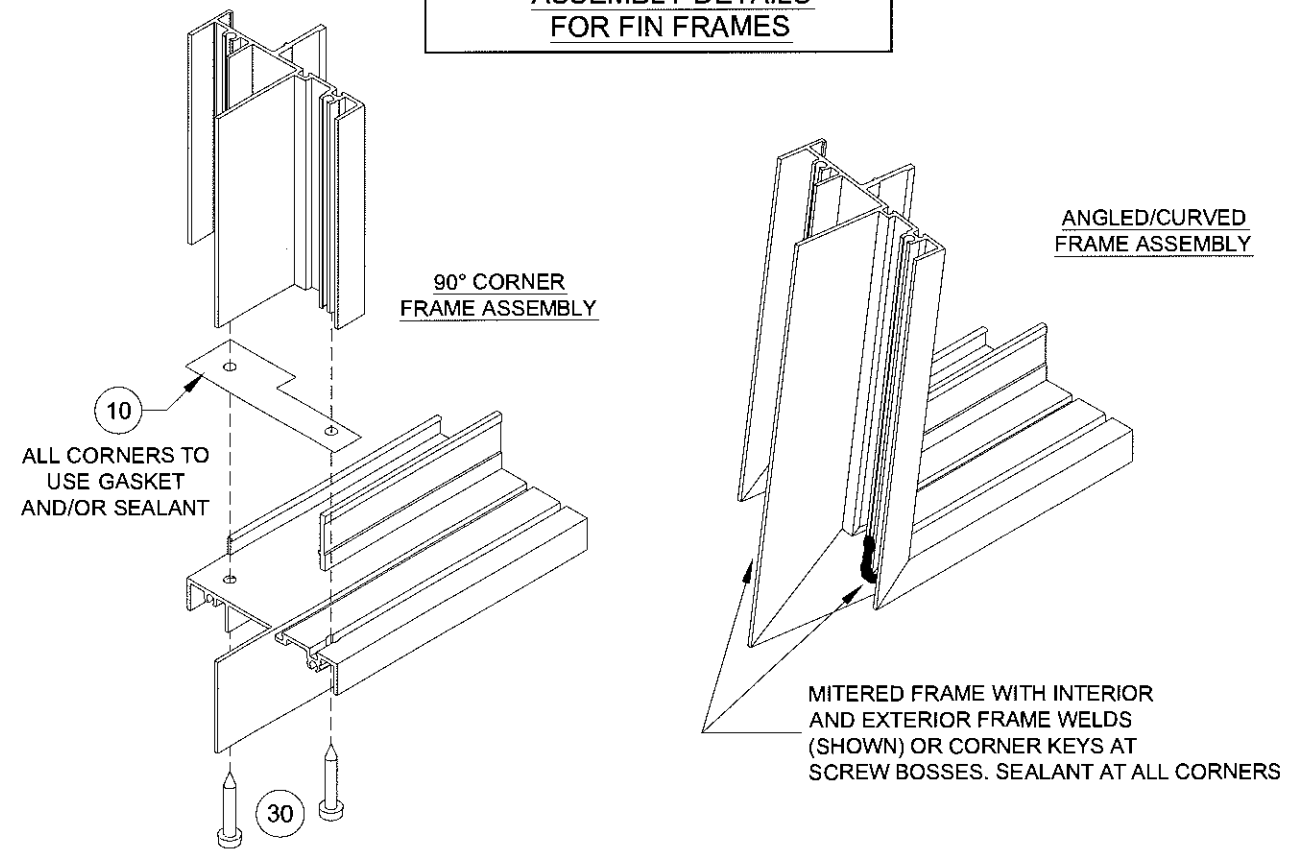
PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 16-0629-A  
 Expiration Date Feb. 19, 2019  
 By *Samuel Perez*  
 Miami Dade Product Control

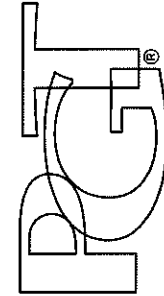
Rev A
Rev B
Rev C

**ASSEMBLY DETAILS FOR  
 FLANGE & EQUAL-LEG FRAMES**



**ASSEMBLY DETAILS  
 FOR FIN FRAMES**



1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274 (941)-480-1600	Date	4/12/13	Rev.	B
	By	J ROSOWSKI	DWG No.	MD-720-820.1
 CERT. OF AUTH. #29296 FIXED WINDOW INSTALLATION GUIDELINES	Sheet	10 OF 11	Scale	NTS
	Series	BOM, EXTRUSIONS AND CORNERS	Desc.	PW-720 PW-820

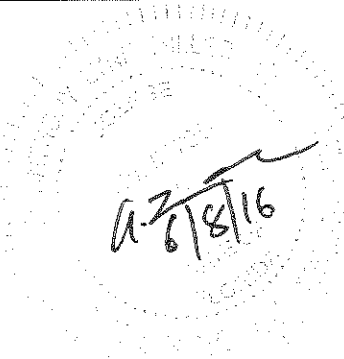
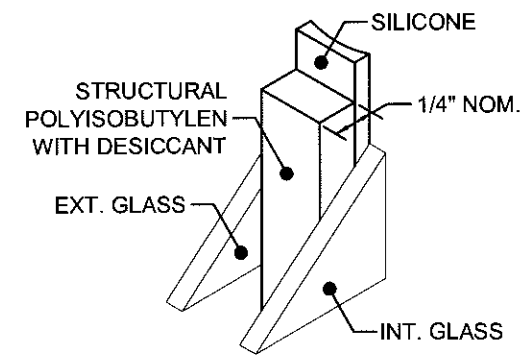
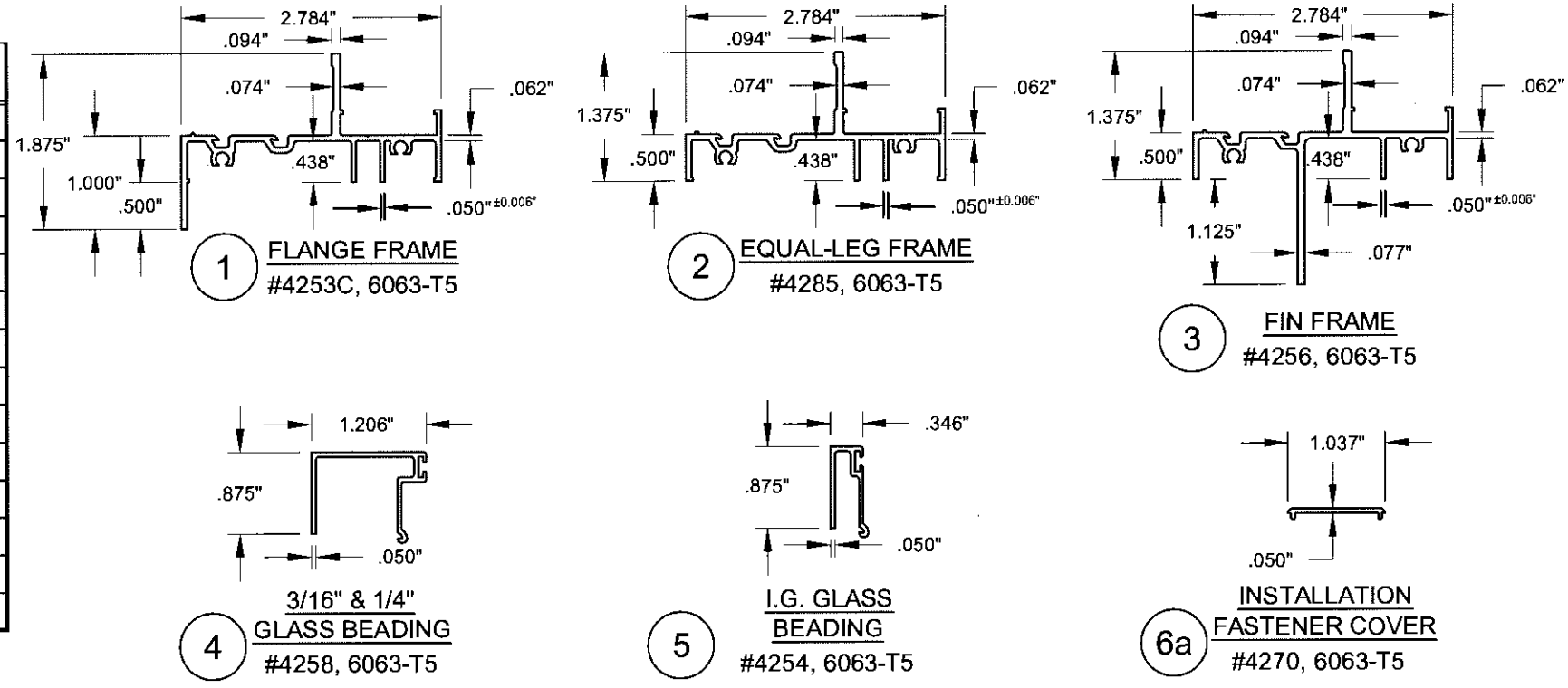
  
*A-LM*  
 4-27-16  
 A. LYNN MILLER, P.E.  
 P.E.# 58705

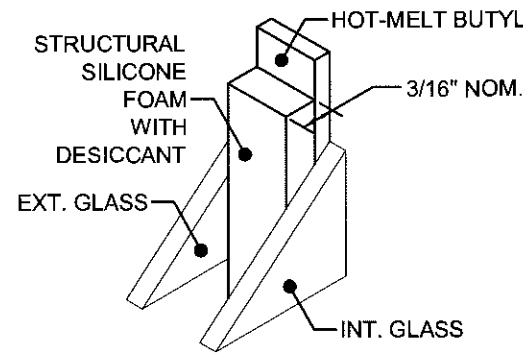


TABLE 9:

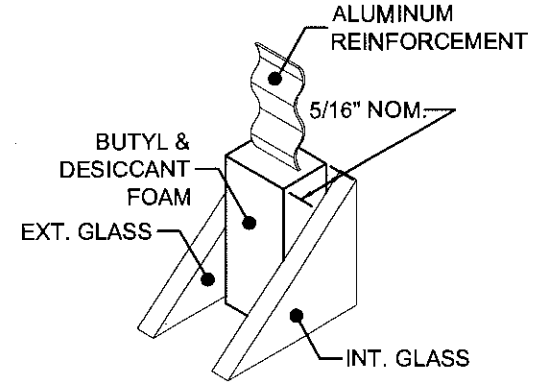
Item #	PGT Part #	Description	Material
1	4253C	Flanged Frame	Alum. 6063-T5
2	4285	Equal-leg Frame	Alum. 6063-T5
3	4256	Integral Fin Frame	Alum. 6063-T5
4	4255	7/16" Lami. Glass Beading	Alum. 6063-T5
5	4254	I.G. Glass Beading	Alum. 6063-T5
6a	4270	Installation Fastener Cover	Alum. 6063-T5
6b	4224	Installation Fastener Cover	Rigid PVC
10	70589C	Gasket (at 90° comer joints)	Polyethylene
11	TP247/8	Vinyl Bulb Weatherstrip	Flex PVC, Duro. 65 +/-1
13		Dow 899, GE 7700 Silicone or Equiv.	
20	71652K	Setting Block, Mono. 3/16" x 7/16" x 4"	Neoprene, Duro. 85 +/-1
21	71704AK	Setting Block, I.G. 3/16" x 1-3/32" x 4"	Neoprene, Duro. 85 +/-1
29		#6 x 1-1/4" FH SMS	Stainless Steel
30	781PQX	#8 x 1" Quad PH SMS	Stainless Steel



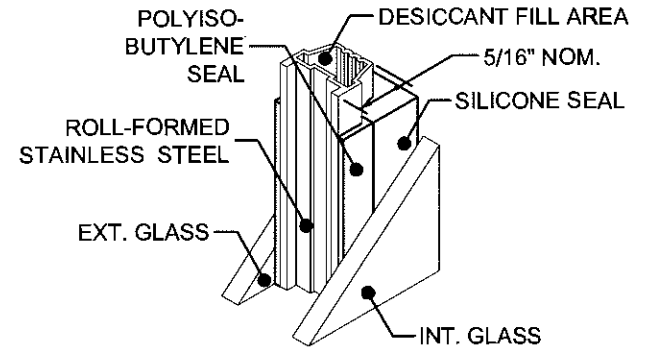
75 **KODISPACE 4SG TPS**



76 **SUPER SPACER<sup>®</sup> NXT<sup>™</sup>**



77 **DURASEAL<sup>®</sup> SPACER**



78 **XL EDGE<sup>™</sup> SPACER**

TABLE 10:

Part #	Description	Material
75	Kommerling 4SG TPS Spacer System	See this Sheet for Materials
76	Quanex Super Spacer nXT with Hot Melt Butyl	
77	Quanex Duraseal Spacer	
78	Cardinal XL Edge Spacer	

REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970

PRODUCT REVISED as complying with the Florida Building Code Assistance No. 16-062914 Expiration Date Feb. 19, 2019  
*Manuel Perez*  
 Quality Control

Rev A  
 Rev B JR - 05/05/16 - ADDED THIS SHEET WITH SPACERS & MOVED PARTS.  
 Rev C

1070 TECHNOLOGY DRIVE  
 N. VENICE, FL 34275  
 P.O. BOX 1529  
 NOKOMIS, FL 34274  
 (941)-480-1600

**PGI**  
 CERT. OF AUTH. #29296

FIXED WINDOW INSTALLATION GUIDELINES  
 BOM, EXTRUSIONS AND CORNERS  
 PW-720  
 PW-820

4/12/13  
 J ROSOWSKI  
 MD-720-820.1  
 11 OF 11  
 NTS

*A. Lynn Miller*  
 4/18/16  
 A. LYNN MILLER, P.E.  
 P.E.# 58705



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

MIAMI-DADE COUNTY, FLORIDA  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
T (786) 315-2590 F (786) 315-2599

**NOTICE OF ACCEPTANCE (NOA)**

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**PGT Industries, Inc.**  
**1070 Technology Drive,**  
**Nokomis, Fl. 34275**

**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-750" Outswing Aluminum French Door w/ Sidelites - L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **8000-11**, titled "Alum. French Door & Side Lites, Impact", sheets 1 through 12 of 12, dated 12/23/04, with revision "F" dated 05/05/16, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P. E., bearing the Miami-Dade County Product Control Section Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

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

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

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

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

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

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

This NOA revises NOA No. **14-1117.05** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jorge M. Plasencia, P. E.**



*JP*  
*7/28/16*

NOA No. 16-0629.16  
Expiration Date: February 24, 2020  
Approval Date: July 28, 2016  
Page 1


**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under previous NOA No. 09-1028.10)*
2. Drawing No. **8000-11**, titled "Alum. French Door & Side Lites, Impact", sheets 1 through 12 of 12, dated 12/23/04, with revision "F" dated 05/05/16, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P. E.

**B. TESTS**

1. Reference Test report on 1) Uniform Static Air Pressure Test, 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 Aluminum Sliding Glass Doors (w/ PS, Super, Cardinal & Duraseal Spacers), prepared by Fenestration Testing Laboratory, Inc., Test Reports No(s) **FTL-8717, FTL-8970 and FTL-8968**, dated 02/15/16, 06/07/16 and 06/20/16, all signed & sealed by Idalmis Ortega, P.E.
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94  
along with marked-up drawings and installation diagram of an aluminum sliding glass door using a low sill threshold, glazed with 7/16" laminated glass, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5941**, dated 05/20/09, signed and sealed by Julio E. Gonzalez, P. E.  
*(Submitted under previous NOA No. 09-1028.10)*
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94  
along with marked-up drawings and installation diagram of an aluminum doors of OXXO configuration, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4921**, dated 07/17/06, signed and sealed by Edmundo J. Largaespada, P. E.  
*(Submitted under previous NOA No. 05-0419.03)*

  
\_\_\_\_\_  
Jorge M. Plasencia, P. E.  
Product Control Unit Supervisor  
NOA No. 16-0629.16  
Expiration Date: February 24, 2020  
Approval Date: July 28, 2016


NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**B. TESTS (CONTINUED)**

4. 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  
4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94  
along with marked-up drawings and installation diagram of an aluminum doors of OXXX configuration, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4527**, dated 02/10/05, signed and sealed by Edmundo J. Largaespada, P. E.  
*(Submitted under previous NOA No. 05-0419.03)*
5. 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  
along with marked-up drawings and installation diagram of an aluminum doors of OXXO configuration, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.'s **FTL-4528**, dated 02/14/05, **FTL-4315**, dated 09/13/04, both signed and sealed by Edmundo J. Largaespada, P. E. *(Submitted under previous NOA No. 05-0419.03)*
6. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of an aluminum doors of XXXO configuration, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.'s **FTL-4529**, dated 02/14/05, **FTL-4530**, dated 02/14/05, **FTL-4311**, dated 09/01/04, all signed and sealed by Edmundo J. Largaespada, P. E.  
*(Submitted under previous NOA No. 05-0419.03)*
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 an aluminum outswing French door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4312**, dated 09/13/04, signed and sealed by Edmundo J. Largaespada, P. E.  
*(Submitted under previous NOA No. 05-0419.03)*

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC 2010 and FBC 2014, 5<sup>th</sup> Edition**, prepared by manufacturer, dated 10/11/11, signed and sealed by A. Lynn Miller, P. E.  
*(Submitted under previous NOA No. 14-1117.05)*
2. **Glazing complies with ASTM E1300-04/ 09**

  
\_\_\_\_\_  
Jorge M. Plasencia, P. E.  
Product Control Unit Supervisor  
NOA No. 16-0629.16  
Expiration Date: February 24, 2020  
Approval Date: July 28, 2016

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. **14-0916.10** issued to **Kuraray America, Inc.** for their "**Kuraray Butacite PVB Glass Interlayer**" dated 02/19/15, expiring on 12/11/16.
2. Notice of Acceptance No. **14-0423.15** issued to **Eastman Chemical Company (MA)** for their "**Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core**" (formerly Saflex Keepsafe Maximum) dated 06/19/14, expiring on 12/11/18.
3. Notice of Acceptance No. **14-0423.16** issued to **Eastman Chemical Company (MA)** for their "**Saflex HP Clear or Color Glass Interlayers**" (formerly Vanceva) dated 06/19/14, expiring on 04/14/18.

**F. STATEMENTS**

1. Test proposal No. **16-0152** dated 03/09/16 approved by RER.
2. Lab compliance as part of the above referenced Test Report No(s) **FTL-8717, FTL-8970 and FTL-8968.**
3. Statement letter of conformance to **FBC-2010** and complying with **FBC 5<sup>th</sup> Edition (2014)**, issued by manufacturer, dated 11/06/14, signed and sealed by A. Lynn Miller, P. E.  
*(Submitted under previous NOA No. 14-1117.05)*
4. Statement letter of no financial interest, issued by manufacturer, dated 11/06/14, signed and sealed by A. Lynn Miller, P. E.  
*(Submitted under previous NOA No. 14-1117.05)*
5. Laboratory compliance letter for Test Report No. **FTL-5941**, issued by Fenestration Testing Laboratory, Inc., dated 05/20/09, signed and sealed by Julio E. Gonzalez, P. E.  
*(Submitted under previous NOA No. 09-1028.10)*
6. Proposal No. **08-1891** issued by Product Control, dated 01/26/09, signed by Ishaq Chanda, P. E.  
*(Submitted under previous NOA No. 09-1028.10)*
7. Laboratory compliance letter for Test Reports No.'s **FTL-4921**, dated 07/17/06, **FTL-4527**, dated 02/10/05, **FTL-4528**, dated 02/14/05, **FTL-4315**, dated 09/13/04, **FTL-4529**, dated 02/14/05, **FTL-4530**, dated 02/14/05, **FTL-4311**, dated 09/01/04 and **FTL-4312**, dated 09/13/04, all issued by Fenestration Testing Laboratory, Inc., all signed and sealed by Edmundo J. Largaespada, P. E.  
*(Submitted under previous NOA No. 05-0419.03)*


  
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Jorge M. Plasencia, P. E.  
Product Control Unit Supervisor  
NOA No. 16-0629.16  
Expiration Date: February 24, 2020  
Approval Date: July 28, 2016

**PGT Industries**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**G. OTHERS**

1. Notice of Acceptance No. **14-1117.05**, issued to PGT Industries for their Series “FD-750” Outswing Aluminum French Door w/Sidelites – L.M.I., approved on 02/19/15 and expiring on 02/24/20.



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**Jorge M. Plasencia, P. E.**  
**Product Control Unit Supervisor**  
**NOA No. 16-0629.16**  
**Expiration Date: February 24, 2020**  
**Approval Date: July 28, 2016**

# NOTES: OUTSWING IMPACT FRENCH DOOR(S) AND SIDE LITE(S)

1. GLAZING OPTIONS:
  - A. 7/16" LAMI CONSISTING OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 PVB INTERLAYER OF DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM.
  - B. 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 PVB INTERLAYER OF DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM.
  - C. 7/16" LAMI CONSISTING OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS WITH AN .075 VANCEVA INTERLAYER.
  - D. 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH AN .075 VANCEVA INTERLAYER.
  - E. 7/8" LAMI I.G. CONSISTING OF (1) LITE OF 3/16" TEMPERED GLASS OUTSIDE, 1/4" AIR SPACE AND (1) 7/16" LAMI GLASS ASSEMBLY INSIDE (3/16" A,.090 PVB, 3/16" HS).
  - F. 7/8" LAMI I.G. CONSISTING OF (1) LITE OF 3/16" TEMPERED GLASS OUTSIDE, 1/4" AIR SPACE AND (1) 7/16" LAMI GLASS ASSEMBLY INSIDE (3/16" HS,.090 PVB, 3/16" HS).
  - G. 7/8" LAMI I.G. CONSISTING OF (1) LITE OF 3/16" TEMPERED GLASS OUTSIDE, 1/4" AIR SPACE AND (1) 7/16" LAMI GLASS ASSEMBLY INSIDE (3/16" A,.075 VANCEVA, 3/16" HS).
  - H. 7/8" LAMI I.G. CONSISTING OF (1) LITE OF 3/16" TEMPERED GLASS OUTSIDE, 1/4" AIR SPACE AND (1) 7/16" LAMI GLASS ASSEMBLY INSIDE (3/16" HS,.075 VANCEVA, 3/16" HS).
2. DESIGN PRESSURES: TABLE 1, SHEET 3.
  - A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E1300-02.
  - B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E1300-02.
3. CONFIGURATIONS: X, O, XX, XO, OX, XXX, XXO, OXX, OXO, XXXX, XXXO, OXXX, OR OXXO WHERE O REPRESENTS EITHER THE NARROW JAMB OR FULL JAMB SIDE LITE. ANY TWO ADJACENT X UNITS CAN BE EITHER TWO SINGLE, X DOORS OR A DOUBLE, XX DOOR' BOTH USING EITHER THE STANDARD OR THE LOW-RISE SILL. THE FRENCH DOOR ASSEMBLY BEAM IS USED TO ASSEMBLE X, XX, AND O UNITS TO MAKE THE ABOVE CONFIGURATIONS.
4. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. FOR ANCHORAGE REQUIREMENTS SEE SHEETS 9 THRU 11.
5. SHUTTERS ARE NOT REQUIRED.
6. SEALANT: INSTALLATION SCREWS, FRAME AND PANEL CORNERS SEALED WITH CLEAR COLORED SEALANT. VERTICAL ASSEMBLY BEAM SEAMS SEALED ON THE INTERIOR AND EXTERIOR WITH CONTRACTOR'S SEALANT.
7. REFERENCES: TEST REPORTS: FTL-4311, FTL-4312, FTL-4315, FTL-4527, FTL-4528, FTL-4529, FTL-4530, FTL-4921 AND FTL-5941.  
ANSI/AF&PA NDS-2005 FOR WOOD CONSTRUCTION  
ADM-2005 ALUMINUM DESIGN MANUAL
8. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

**STANDARDS USED:**

- 2014 FLORIDA BUILDING CODE (FBC), 5TH EDITION
- ASTM E1300-09
- ANSI/AF&PA NDS-2012 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2010
- AISI-S100-07/S2-2010

Revised By:	Date:	Revisions:	
J.R.	05/05/16	F	ADDED SPACERS TO SHEET 9.
Revised By:	Date:	Revisions:	
Revised By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
F.K.	12/23/04	L.T.	4/8/05

1070 TECHNOLOGY DRIVE  
NOKOMIS, FL 34275  
  
P.O. BOX 1529  
NOKOMIS, FL 34274



Description:				
<b>GENERAL NOTES AND DRAWING MAP</b>				
Title:				
<b>ALUM. FRENCH DOOR &amp; SIDE LITES, IMPACT</b>				
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
FD750	FULL	1 of 12	8000-11	F

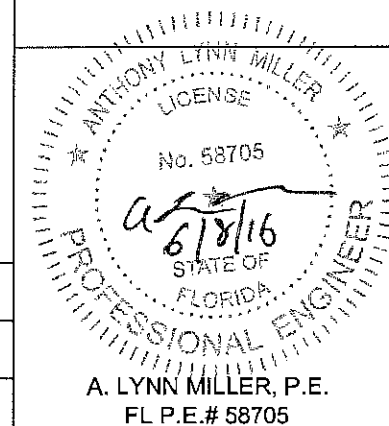
## NOA DRAWING MAP

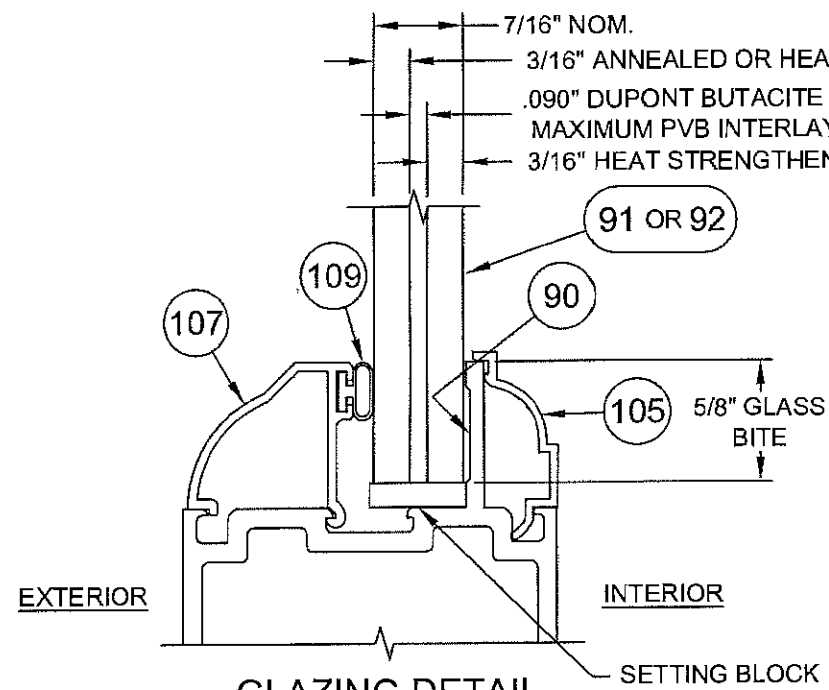
TOPIC	SHEET
GENERAL NOTES.....	1
CONFIGURATIONS.....	1
GLAZING DETAILS.....	2
DESIGN PRESSURES.....	3
ELEVATIONS.....	4
VERT. SECTIONS.....	5
HORIZ. SECTIONS.....	6
PARTS LIST.....	7
EXTRUSIONS.....	8-9
ANCHORAGE.....	10-12

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **16-0629.16**

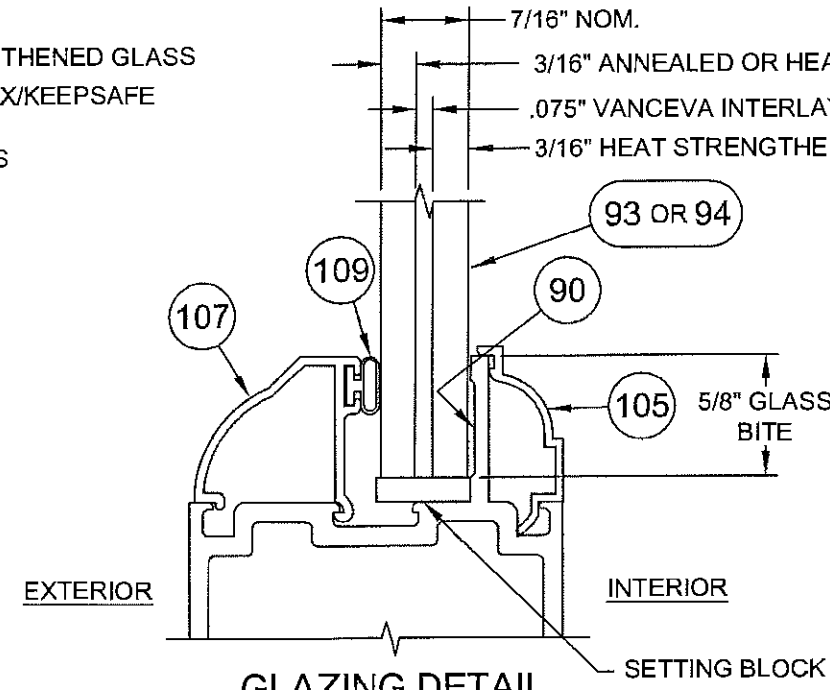
Expiration Date **02/24/2020**

By   
Miami-Dade Product Control

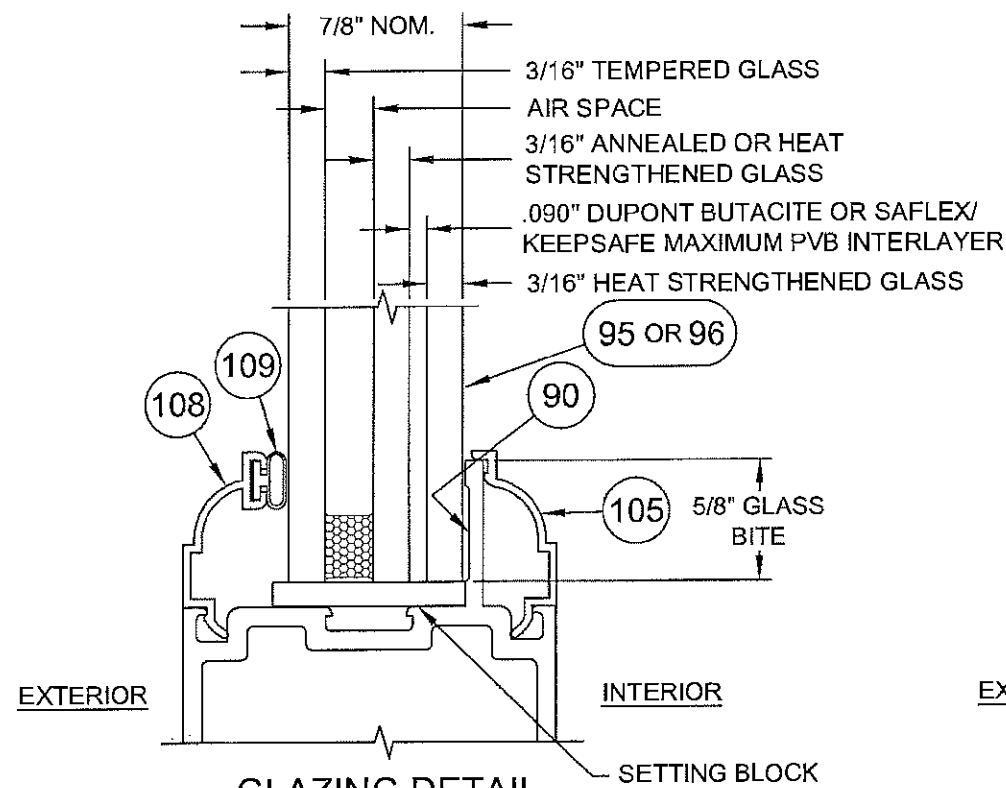




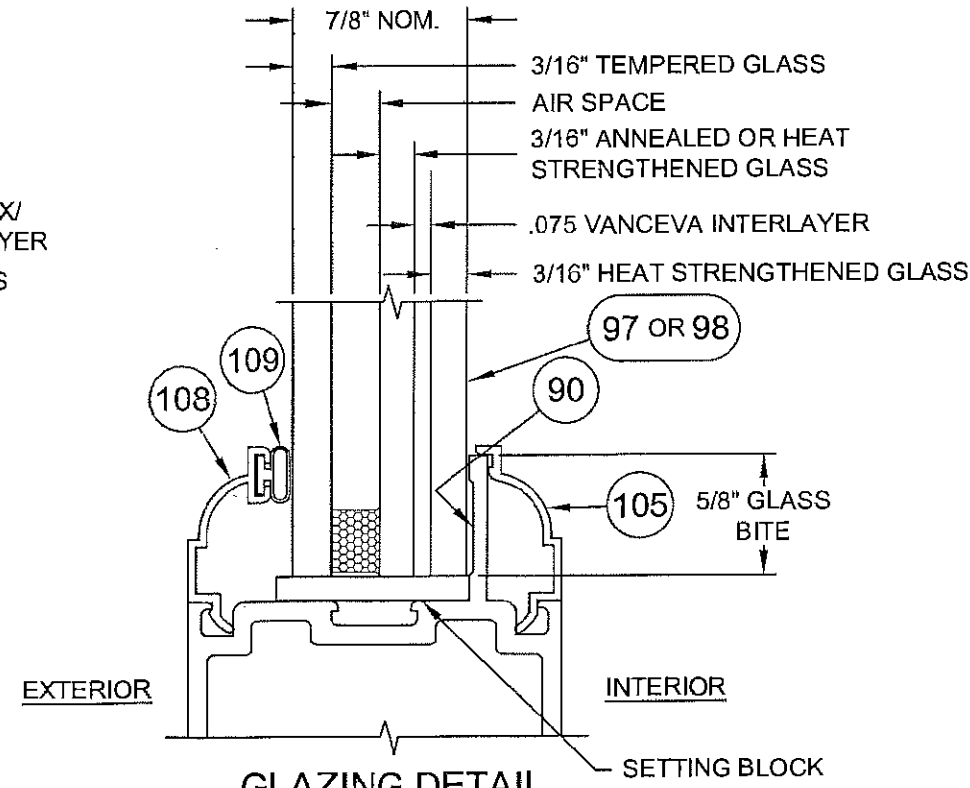
**GLAZING DETAIL**  
**7/16" LAMI GLASS W/ PVB INTERLAYER**



**GLAZING DETAIL**  
**7/16" LAMI GLASS W/ VANCEVA INTERLAYER**



**GLAZING DETAIL**  
**7/8" LAMI I.G. GLASS W/ PVB INTERLAYER**



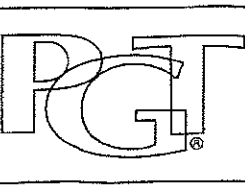
**GLAZING DETAIL**  
**7/8" LAMI I.G. GLASS W/ VANCEVA INTERLAYER**

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 NOA-No. **16-0629.16**  
 Expiration Date **02/24/2020**  
 By *[Signature]*  
 Miami-Dade Product Control

*[Signature]*  
 6/18/16  
 A. LYNN MILLER, P.E.  
 FL P.E.# 58705

Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
F.K.	12/23/04	L.T.	4/8/05

1070 TECHNOLOGY DRIVE  
 NOKOMIS, FL 34275  
 P.O. BOX 1529  
 NOKOMIS, FL 34274

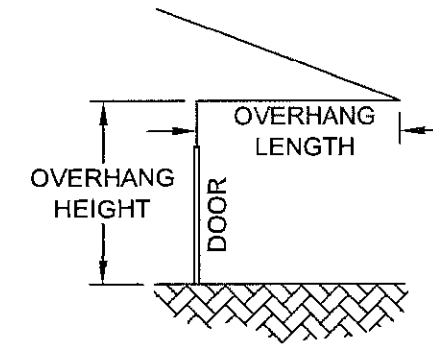


Description: <b>GLAZING DETAILS</b>			
Title: <b>ALUM. FRENCH DOOR &amp; SIDE LITES, IMPACT</b>			
Series/Model: FD750	Scale: FULL	Sheet: 2 of 12	Drawing No. 8000-11
			Rev: F



Table 1. Maximum Design Pressures (psf)

Configuration	Width (in)	Allowed Glass Types	Height (in)										
			79 3/4" (6 <sup>8</sup> )		83 3/4" (7 <sup>0</sup> )		87 3/4"		91 3/4"		95 3/4" (8 <sup>0</sup> )		
French Door	X	37" (3 <sup>0</sup> )	A,E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
			C,G	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0
	XX	71 3/4" (6 <sup>0</sup> )	A,E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
			C,G	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0
Sidelite	Full Jamb	36 11/16"	A,E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
			C,G	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0
	Narrow Jamb	30 11/16"	C,G	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0
			C,G	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+97.4	-97.4
		36 11/16"	A, B, E, F	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
			C,G	+100.0	-100.0	+99.9	-99.9	+95.3	-95.3	+91.4	-91.4	+87.9	-87.9
			D,H	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0
			D,H	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0



NOTES:

1. IF USING THE OPTIONAL LOW-RISE SILL (PART 10, SHEET 8 OF 12), THE OVERHANG LENGTH MUST BE GREATER THAN OR EQUAL TO THE OVERHANG HEIGHT (SEE DIAGRAM). IF NOT, THE MAXIMUM POSITIVE (+) DESIGN PRESSURE IS LIMITED TO +50.0 PSF FOR ALL STYLES AND SIZES OF THE DOOR AND ANY ADJOINING SIDELITES. (REF. FTL-5941)

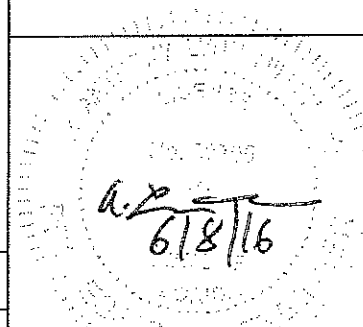
Table 1a. Glass Type and Test Report Number

A - 7/16" LAMI (3/16"A,.090 PVB, 3/16"HS)	FTL-4311, 4312, 4315
B - 7/16" LAMI (3/16"HS,.090 PVB, 3/16"HS)	UPGRADE FTL-4311, 4312, 4315
C - 7/16" LAMI (3/16"A,.075 VANCEVA, 3/16"HS)	FTL-4527, 4528, 4529, 4530
D - 7/16" LAMI (3/16"HS,.075 VANCEVA, 3/16"HS)	UPGRADE FTL-4527, 4528, 4529, 4530
E - 7/8" LAMI I.G. (3/16"T, 1/4" AIR SPACE, 3/16"A,.090 PVB, 3/16"HS)	FTL-4311, 4312, 4315
F - 7/8" LAMI I.G. (3/16"T, 1/4" AIR SPACE, 3/16"HS,.090 PVB, 3/16"HS)	UPGRADE FTL-4311, 4312, 4315
G - 7/8" LAMI I.G. (3/16"T, 1/4" AIR SPACE, 3/16"A,.075 VANCEVA, 3/16"HS)	FTL-4527, 4528, 4529, 4530
H - 7/8" LAMI I.G. (3/16"T, 1/4" AIR SPACE, 3/16"HS,.075 VANCEVA, 3/16"HS)	UPGRADE FTL-4527, 4528, 4529, 4530


**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **16-0629.16**

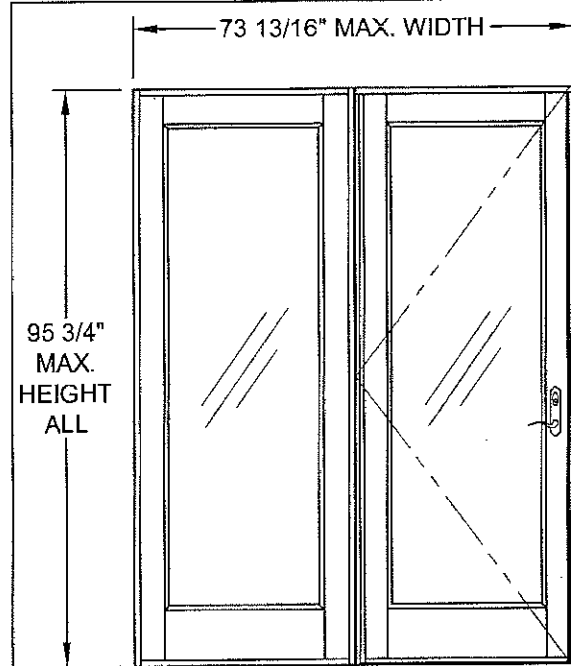
Expiration Date **02/24/2020**

By   
Miami-Dade Product Control

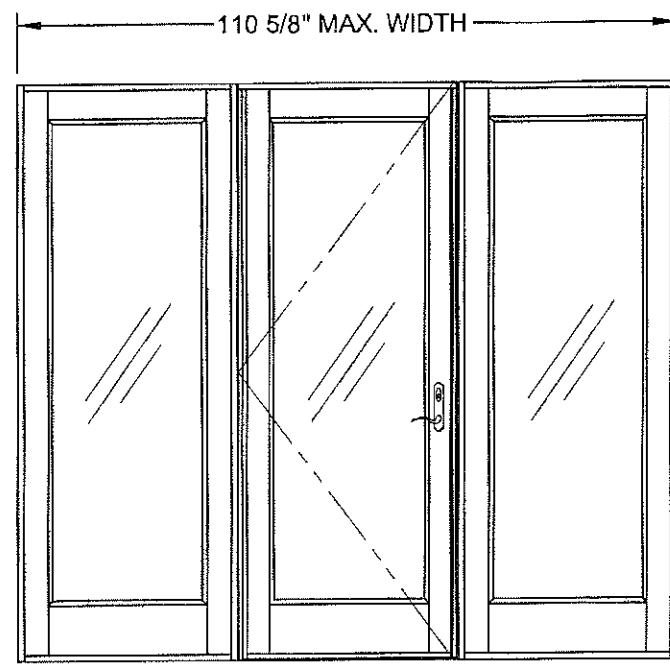


A. LYNN MILLER, P.E.  
FL P.E.# 58705

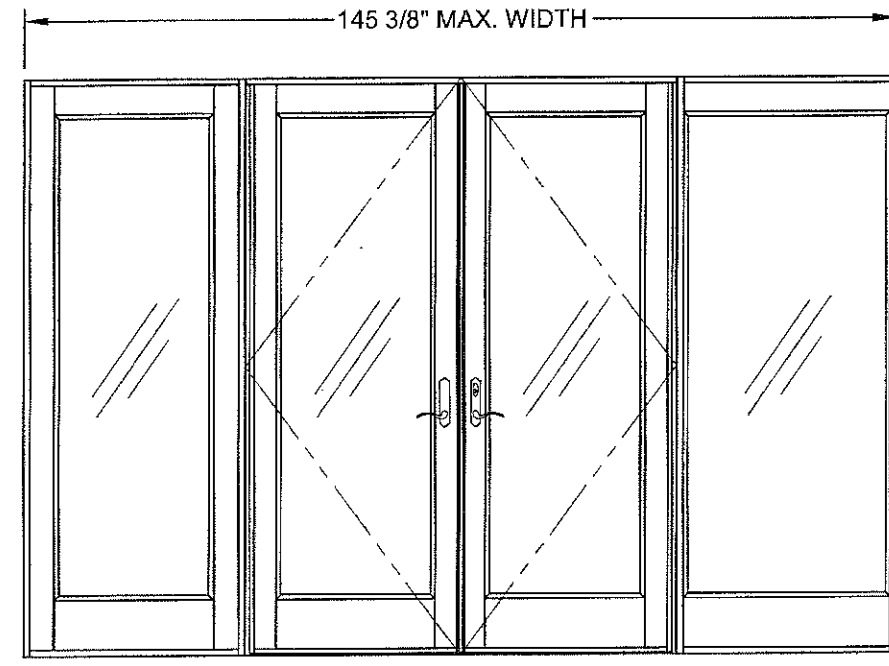
Revsd By:	Date:	Revisions:		1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275  P.O. BOX 1529 NOKOMIS, FL 34274		Description: <b>DESIGN PRESSURES</b>					
Revsd By:	Date:	Revisions:				Title: <b>ALUM. FRENCH DOOR &amp; SIDE LITES, IMPACT</b>					
Revsd By:	Date:	Revisions:				Series/Model:	Scale:	Sheet:	Drawing No.	Rev:	
Drawn By: F.K.	Date: 12/23/04	Checked By: L.T.	Date: 4/8/05			FD750	NTS	3 of 12	8000-11	F	



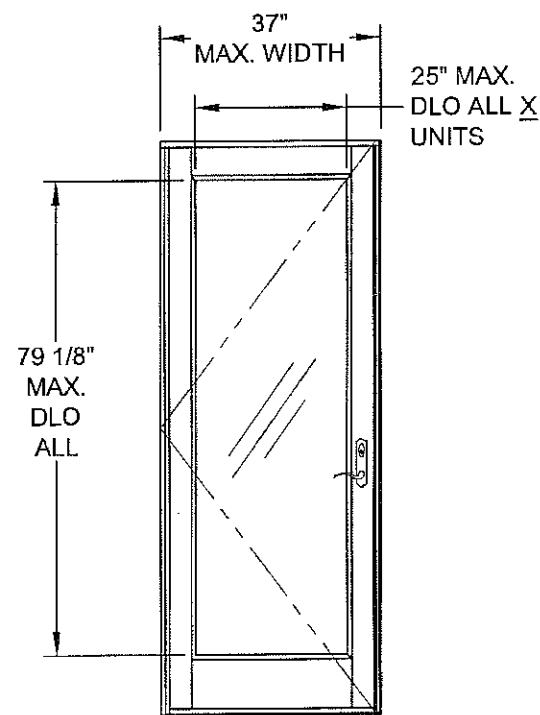
OX OR XO



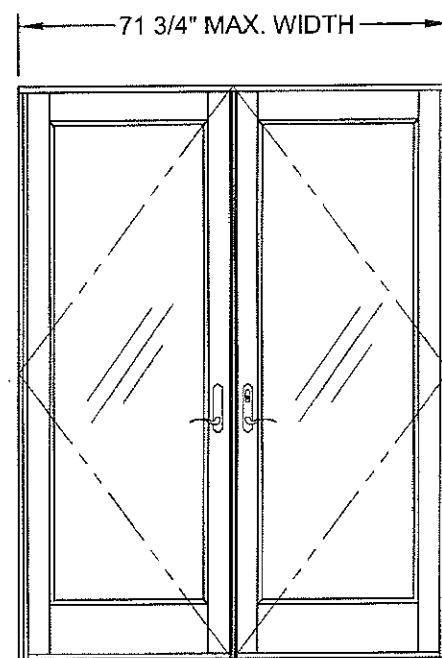
OXO



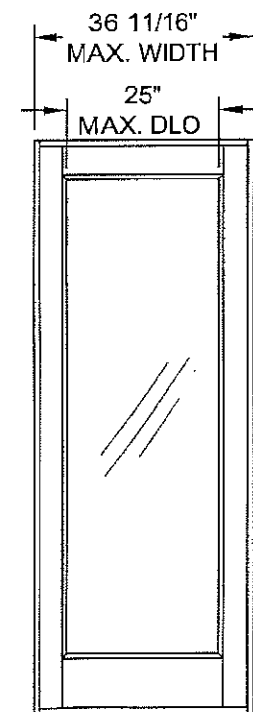
OXXO (SHOWING EACH VERSION SIDELITE)



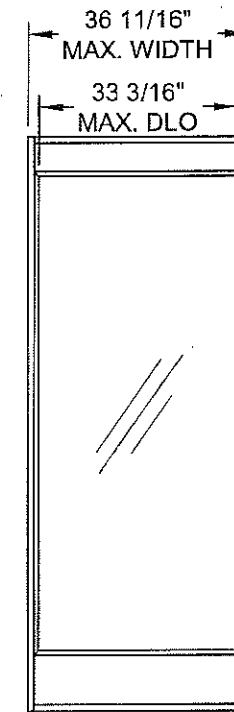
X



XX



O (FULL JAMB)



O (NARROW JAMB)

**NOTES:**


1. CONFIGURATIONS WITH SIDE LITES CAN BE EITHER NARROW JAMB OR FULL JAMB VERSION.
2. FOR ANCHOR SPACING AND DETAILS SEE SHEETS 9 THROUGH 11.
3. FOR VERTICAL SECTIONS SEE SHEET 5 AND FOR HORIZONTAL SECTIONS SEE SHEET 6.

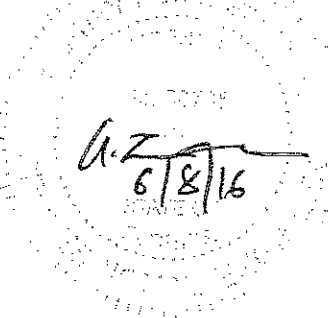
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Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
F.K.	12/23/04	L.T.	4/8/05

1070 TECHNOLOGY DRIVE  
NOKOMIS, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274

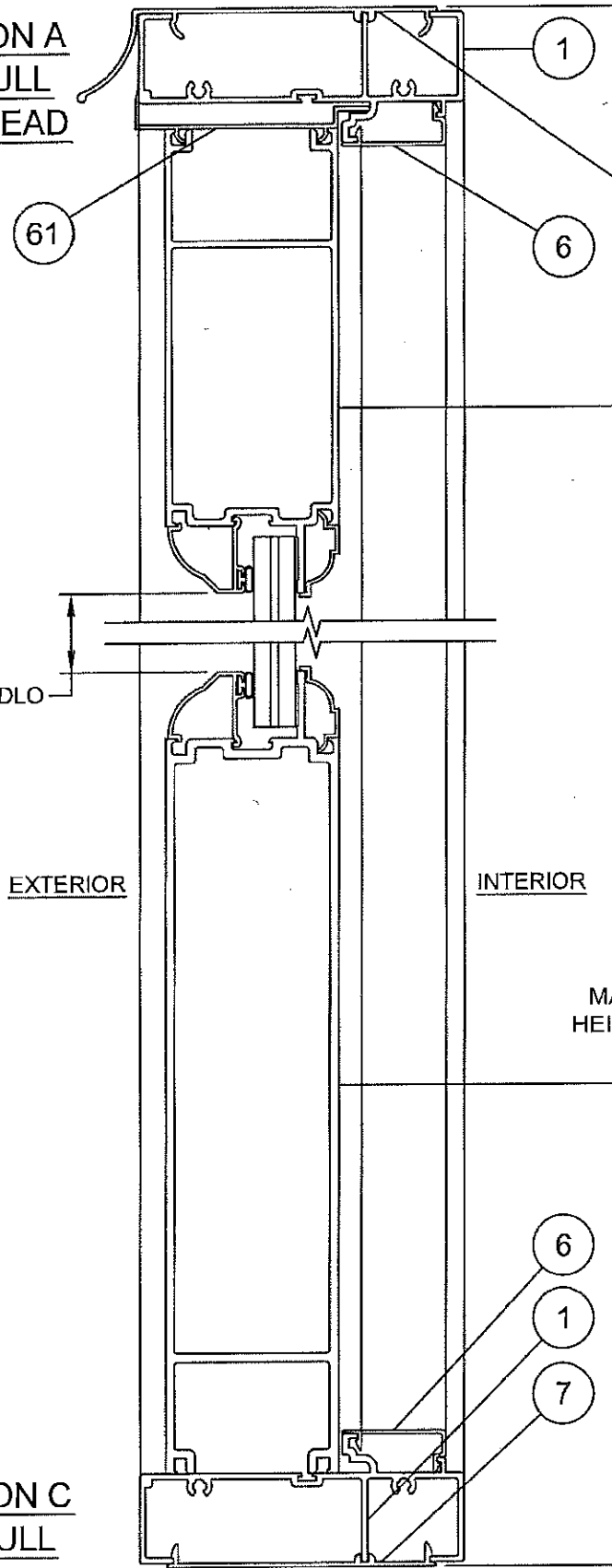


Description: <b>EXAMPLE ELEVATIONS</b>			
Title: <b>ALUM. FRENCH DOOR &amp; SIDE LITES, IMPACT</b>			
Series/Model: FD750	Scale: NTS	Sheet: 4 of 12	Drawing No. 8000-11
			Rev: F

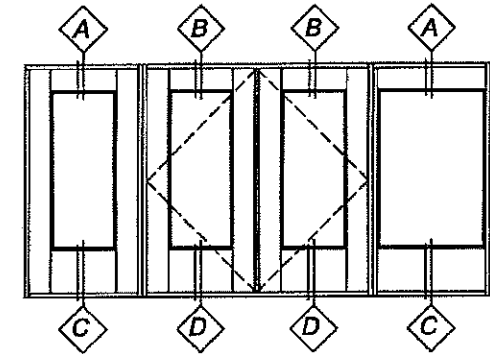
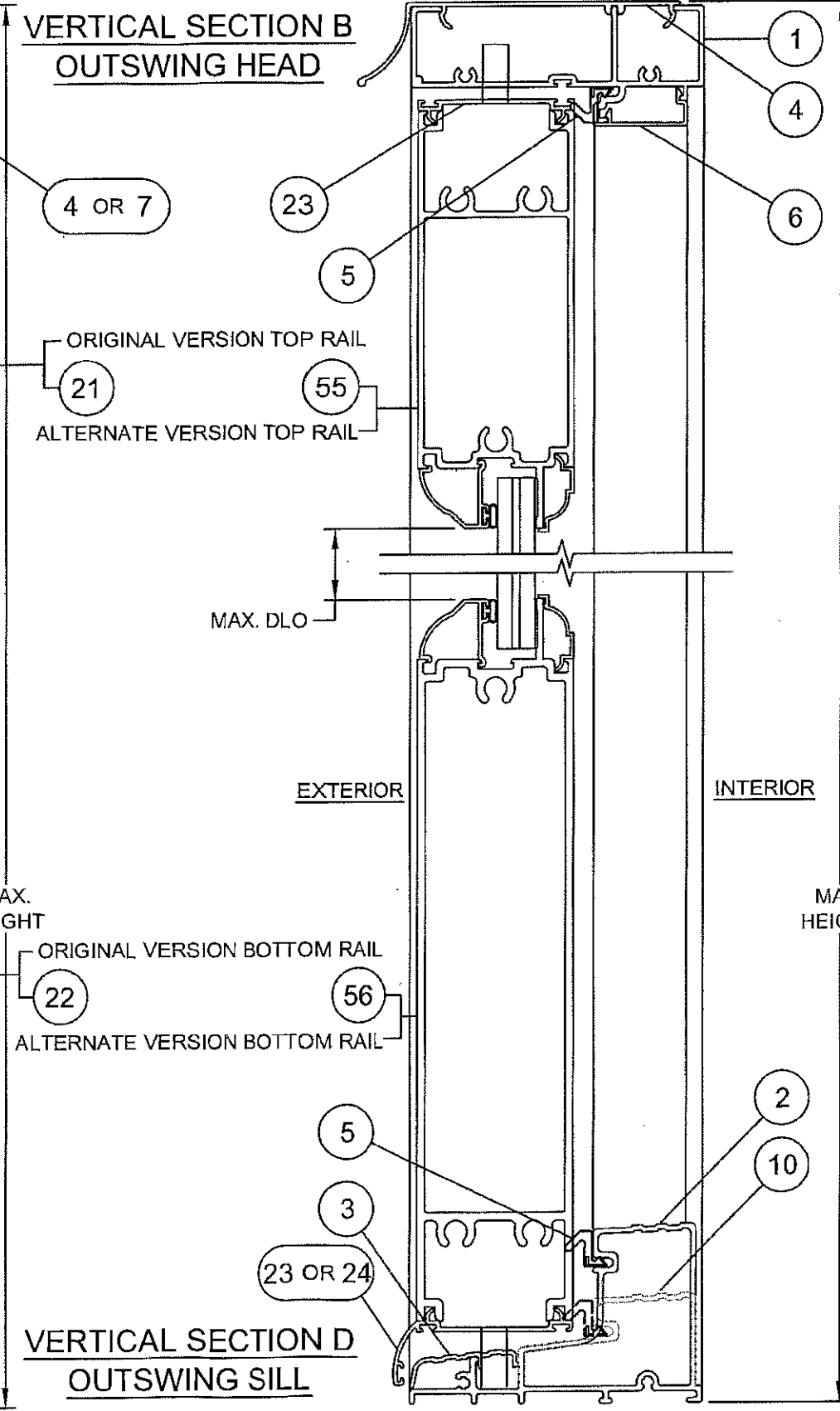
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **16-0629.16**  
Expiration Date **02/24/2020**  
By   
Miami-Dade Product Control

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

**VERTICAL SECTION A  
NARROW AND FULL  
JAMB SIDE LITE HEAD**



**VERTICAL SECTION B  
OUTSWING HEAD**



**VERTICAL SECTION C  
NARROW AND FULL  
JAMB SIDE LITE SILL**

**VERTICAL SECTION D  
OUTSWING SILL**

Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
F.K.	12/23/04	L.T.	4/8/05

1070 TECHNOLOGY DRIVE  
NOKOMIS, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274

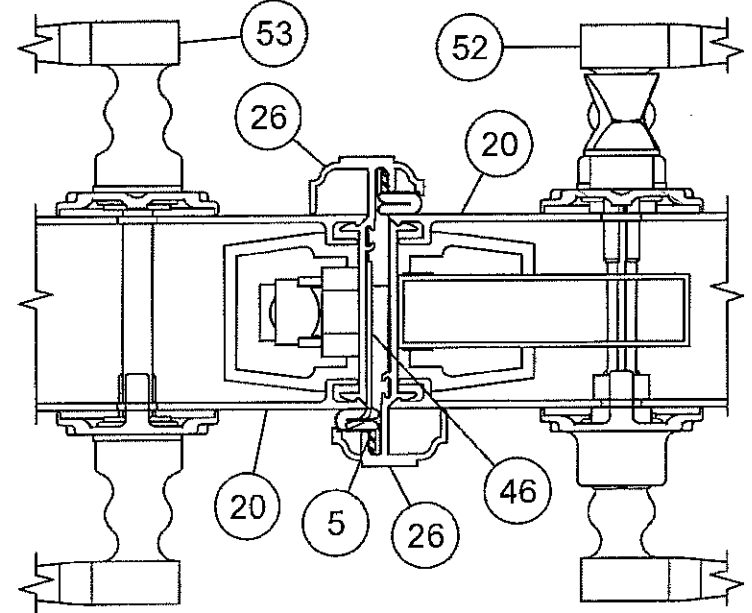
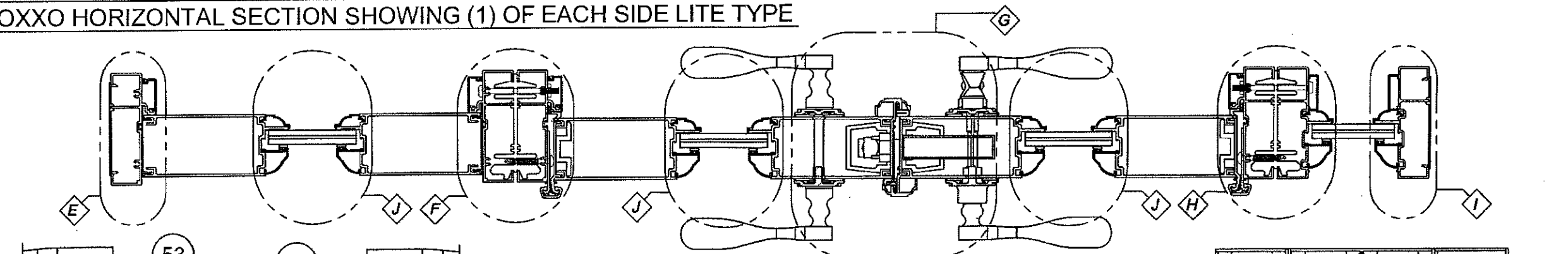


Description: <b>VERTICAL SECTIONS</b>					
Title: <b>ALUM. FRENCH DOOR &amp; SIDE LITES, IMPACT</b>					
Series/Model:	Scale:	Sheet:	Drawing No.:	Rev.:	
FD750	1/2	5 of 12	8000-11	F	

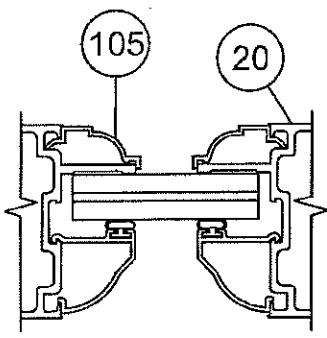
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **16-0629.16**  
Expiration Date **02/24/2020**  
By *[Signature]*  
Miami-Dade Product Control

*A. Lynn Miller*  
6/8/16  
A. LYNN MILLER, P.E.  
FL P.E.# 58705

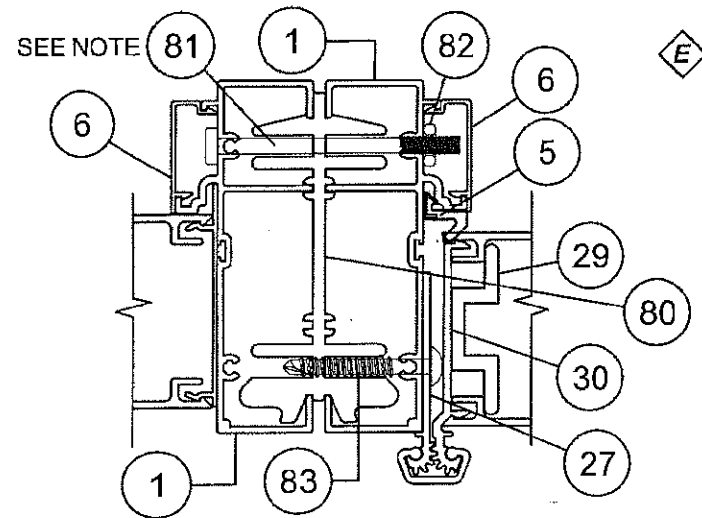
OXXO HORIZONTAL SECTION SHOWING (1) OF EACH SIDE LITE TYPE



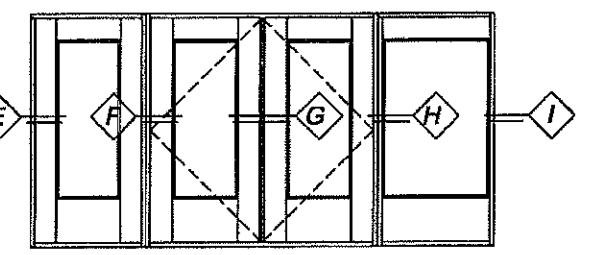
DETAIL G STILES AT ASTRAGAL



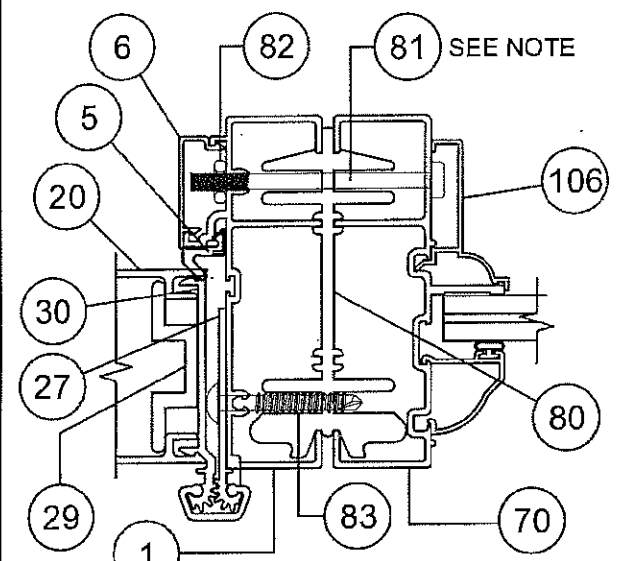
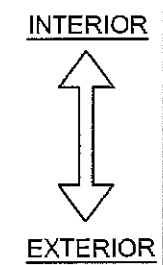
DETAIL J  
SLAB AT  
GLASS BED



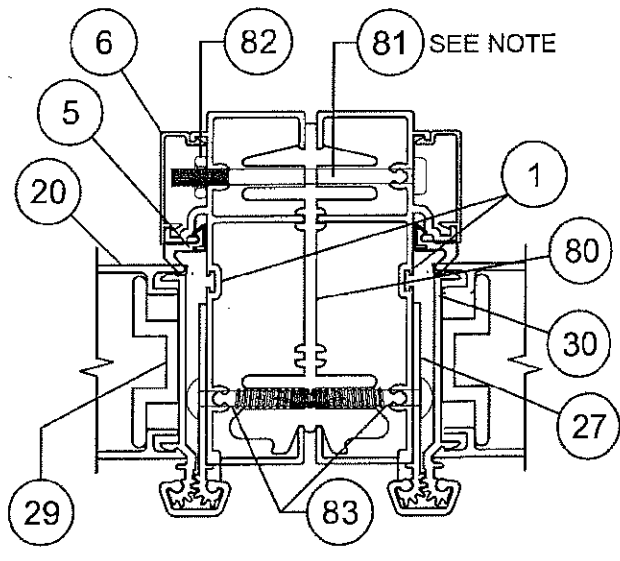
DETAIL F  
FULL JAMB SIDE LITE  
(AT HINGE JAMB)



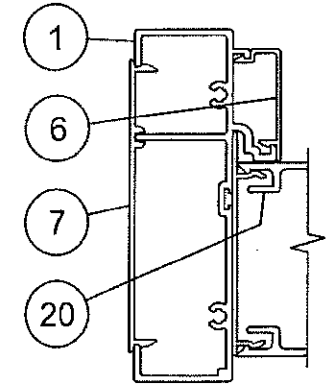
NOTE: ASSEMBLY HARDWARE QTY (3), 11" FROM TOP & BOTTOM AND ONE AT MIDSPAN



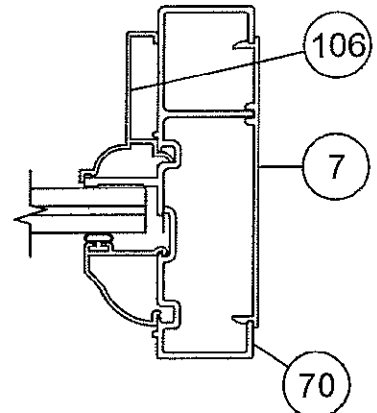
DETAIL H  
NARROW JAMB SIDE LITE  
(AT HINGE JAMB)



DETAIL K  
HINGE JAMB TO HINGE JAMB  
(NOT SHOWN ABOVE)



DETAIL E  
JAMB, FULL JAMB  
SIDE LITE



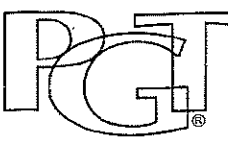
DETAIL I  
JAMB, NARROW  
JAMB SIDE LITE

**PRODUCT REVISED**  
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NOA-No. **16-0629.16**  
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By *[Signature]*  
Miami-Dade Product Control

*[Signature]*  
6/8/16  
A. LYNN MILLER, P.E.  
FL P.E.# 58705

Revised By:	Date:	Revisions:	
Revised By:	Date:	Revisions:	
Revised By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
F.K.	12/23/04	L.T.	4/8/05

1070 TECHNOLOGY DRIVE  
NOKOMIS, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274



Description: <b>HORIZONTAL SECTION DETAILS</b>				
Title: <b>ALUM. FRENCH DOOR &amp; SIDE LITES, IMPACT</b>				
Series/Model: FD750	Scale: 1/2	Sheet: 6 of 12	Drawing No. 8000-11	Rev: F

**FD750 DOOR(S)**

ITEM	DWG#	DESCRIPTION	PGT#
<b>FRAME KIT PARTS</b>			
1	8006	FRAME - HEAD & HINGE JAMB	68006
2	8003A	OUT-SWING SILL	68003A
3	8004C	OUT-SWING SILL COVER	68004C
4	8008	DRIP CAP	68008
5		HEAD, SILL & JAMB WEATHERSTRIP (SCHLEGAL)	U83337T8500
6	8007	SCREW COVER	68007
7	8009	INSTALL PLATE	68009
8		FRAME ASSEMBLY SCREW #8 X 1" PH QUAD	781PQA
9	8032	ASTRAGAL END SEAL	48032
10	8058	OUT-SWING SILL (LOW RISE)	48058
<b>DOOR PANEL</b>			
5		HEAD, SILL & JAMB WEATHERSTRIP (SCHLEGAL)	U83337T8500
20	8012	STILE	68012
21	8014	TOP RAIL, (THREADED ROD DESIGN)	68014
22	8013	BOTTOM RAIL, (THREADED ROD DESIGN)	68013
23	8017	TOP SWEEP	68017
24	8016	BOTTOM SWEEP	68016
25		SWEEP SCREWS, #4 X 1/2" PHIL PH	
26	8015	ASTRAGAL, ACTIVE & INACTIVE	68015
27	8021B	GEAR HINGE, JAMB SIDE	68021B
28	8020A	GEAR HINGE, COVER	68020A
29	8018	GEAR HINGE, BACK-UP PLATE	68018
30	8019A	GEAR HINGE, DOOR SIDE	68019A
31	8035	GEAR HINGE, BEARING	68035
32		GEAR HINGE, SET-SCREW #6-32 x 1/4"	
33		GEAR HINGE, MTG. SCREW #12 x 3/4" TRUSS HD.	
34		GEAR HINGE, MTG. SCREW #12 x 1 1/2" TRUSS HD.	
35		THREADED ROD 5/16-18 X 36"	6TRODA
36		FLANGED HEX NUT 5/16-18	7990NUTA
37	8039	TRUSS CLAMP	60378M
38	8043	S/S GEAR LATCH MECHANISM (ASHLAND)	
39	8030	LOCK BLOCK	48030
40		LATCH ASSY SCREWS #8 X 2" SS PHILL TR HD	78X2TPAX
41	8037	S/S SHOOT BOLT ROD (SULLIVAN)	
42	8045	STANDARD FLUSH BOLTS W/ SS ROD (SULLIVAN)	
43	8031	SHOOT BOLT GUIDE	48031
44		SHOOT BOLT GUIDE & STRIKE SCREW 8-32 X 3/8" SS PHILL TR HD	78X38PFTX
45	8038R	RIGHT - STRIKE PLATE AT ASTRAGAL (ACTIVE HINGED LEFT)	W5110-43S1
46	8038L	LEFT - STRIKE PLATE AT ASTRAGAL (ACTIVE HINGED RIGHT)	W5110-44S1
47		STRIKE PLATE SCREWS 8-32 X 3/8" SS PHILL TR HD	78X38PFTX
48		STRIKE PLATE MIDDLE SCREW 6-24 X 1/2" FH	7612PFTX
49	8036	STRIKE PLATE AT HEAD & SILL	
50		HEAD STRIKE SCREWS SS 8 X 1/2 PHILL FH	7858ZAX
51		STRIKE PLATE SCREWS @SILL SS 8 X 1/2 PHILL UNDERCUT FH	78X12PFHUX
52	8041	ACTIVE TRIM SET (ASHLAND)	
53	8042	PASSIVE TRIM SET (ASHLAND)	
54	8044	STAINLESS STEEL PASSIVE LOCK GEAR (ASHLAND)	
55	8014A	TOP RAIL (LAG BOLT DESIGN)	68014A
56	8013A	BOTTOM RAIL (LAG BOLT DESIGN)	68013A
57		5/16" x 2 1/2" LAG BOLTS	7516LBOLT X

**FD750 FULL JAMB SIDE LITE**

ITEM	DWG#	DESCRIPTION	PGT#
1	8006	FRAME - HEAD, SILL & JAMB	68006
4	8008	DRIP CAP	68008
6	8007	SCREW COVER	68007
7	8009	INSTALL PLATE	68009
8		FRAME ASSEMBLY SCREW #8 X 1" PH QUAD	781PQA
20	8012	STILE	68012
21	8014	TOP RAIL	68014
22	8013	BOTTOM RAIL	68013
35		THREADED ROD 5/16-18 X 36"	6TRODA
36		FLANGED HEX NUT 5/16-18	7990NUTA
37	8039	TRUSS CLAMP	60378M
60		#8 X 3/4" PH SQ DRIVE TEK SCREW	78X34PSTW
61	8028	SIDE LITE HEAD TRIM	68028
62	8029	SIDE LITE JAMB TRIM	68029

**FD750 NARROW JAMB SIDE LITE**

ITEM	DWG#	DESCRIPTION	PGT#
1	8006	FRAME - HEAD & SILL	68006
4	8008	DRIP CAP	68008
6	8007	SCREW COVER	68007
7	8009	INSTALL PLATE	68009
8		FRAME ASSEMBLY SCREW #8 X 1" PH QUAD	781PQA
21	8014	TOP RAIL	68014
22	8013	BOTTOM RAIL	68013
35		THREADED ROD 5/16-18 X 36"	6TRODA
36		FLANGED HEX NUT 5/16-18	7990NUTA
37	8039	TRUSS CLAMP	60378M
60		#8 X 3/4" PH SQ DRIVE TEK SCREW	78X34PSTW
61	8028	SIDE LITE HEAD TRIM	68028
70	8010	FRAME, JAMB	68010

**ASSEMBLY KIT**

ITEM	DWG#	DESCRIPTION	PGT#
80	8033B	FRENCH DOOR ASSEMBLY BEAM	68033B
81		#10-24 X 2 1/2" PH SCREW	
82		#10-24 HEX NUT	
83		#12 X 1 1/2" TR HD TEK SCREW	
84	8056	SUBSILL (OPTIONAL)	68056

**GLASS, BEADS & SILICONE**

ITEM	DWG#	DESCRIPTION	PGT#
90		GLAZING SEALANT, DOW CORNING 899, 983, 995 OR EQUIVALENT	
91		7/16" LAMINATED GLASS (3/16" ANN., 090 PVB, 3/16" HS)	
92		7/16" LAMINATED GLASS (3/16" HS., 090 PVB, 3/16" HS)	
93		7/16" LAMINATED GLASS (3/16" ANN., 075 VANCEVA, 3/16" HS)	
94		7/16" LAMINATED GLASS (3/16" HS., 075 VANCEVA, 3/16" HS)	
95		7/8" LAM I.G (3/16" T, 1/4" SPACE, 3/16" ANN., 090 PVB, 3/16" HS)	
96		7/8" LAM I.G (3/16" T, 1/4" SPACE, 3/16" HS., 090 PVB, 3/16" HS)	
97		7/8" LAM I.G (3/16" T, 1/4" SPACE, 3/16" ANN., 075 VANCEVA, 3/16" HS)	
98		7/8" LAM I.G (3/16" T, 1/4" SPACE, 3/16" HS., 075 VANCEVA, 3/16" HS)	
105	8022	BACK BEAD	68022
106	8026A	SL BACK BEAD	68026A
107	8023A	7/16" BEAD	68023A
108	8024A	7/8" IG BEAD	68024A
109	1224	VINYL BULB WSTP (THICK)	6TP247

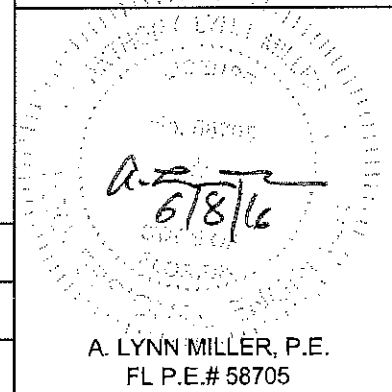
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Revised By:	Date:	Revisions:	
Revised By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
F.K.	12/23/04	L.T.	4/8/05

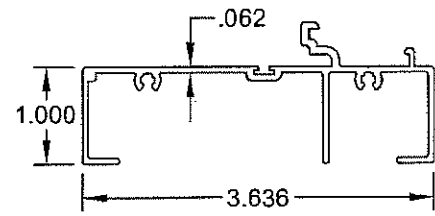
1070 TECHNOLOGY DRIVE  
NOKOMIS, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274



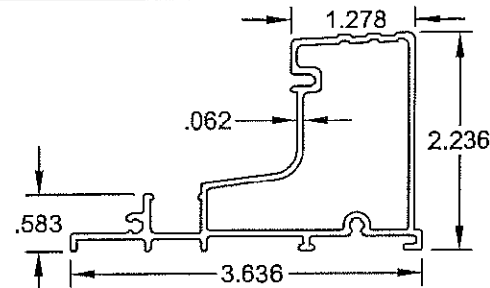
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Title:				
<b>ALUM. FRENCH DOOR &amp; SIDE LITES, IMPACT</b>				
Series/Model:	Scale:	Sheet:	Drawing No.:	Rev.:
FD750	NA	7 of 12	8000-11	F

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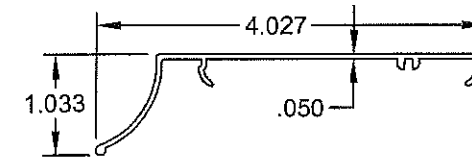
1 #8006 6063-T6  
FRAME, HEAD, JAMB  
AND SIDELITE SILL



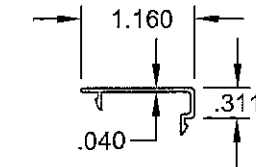
2 #8003A 6063-T6  
OUT-SWING SILL



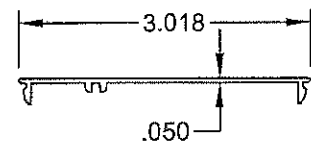
3 #8004C 6063-T5  
OS SILL COVER



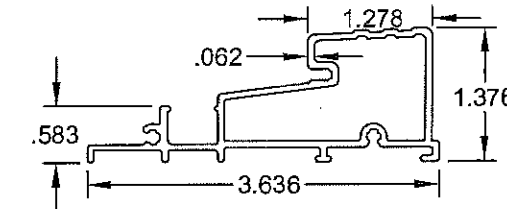
4 #8008 6063-T5  
DRIP CAP



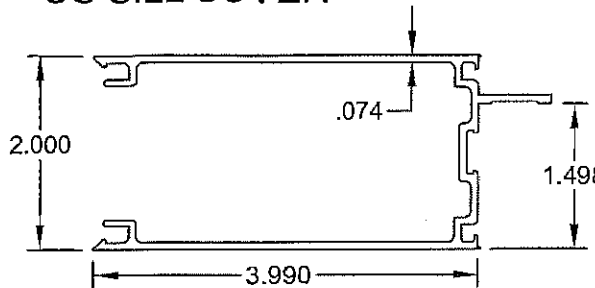
6 #8007 6063-T6  
SCREW COVER



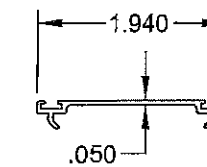
7 #8009 6063-T5  
INSTALL PLATE



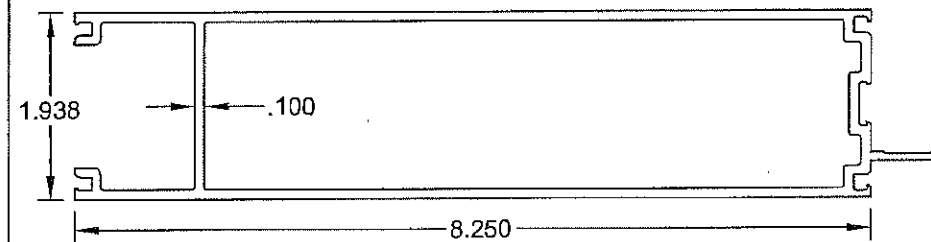
10 #8056 6063-T6  
OUT-SWING LOW SILL



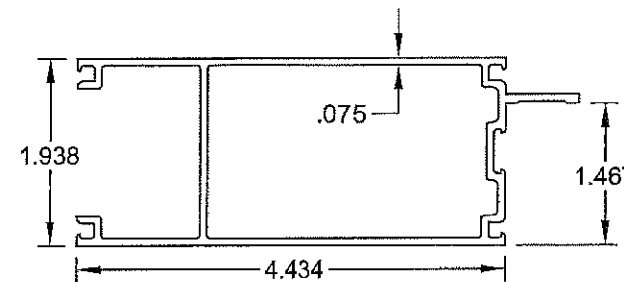
20 #8012 6063-T6  
STILE



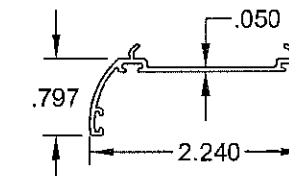
23 #8017 6063-T5  
TOP SWEEP



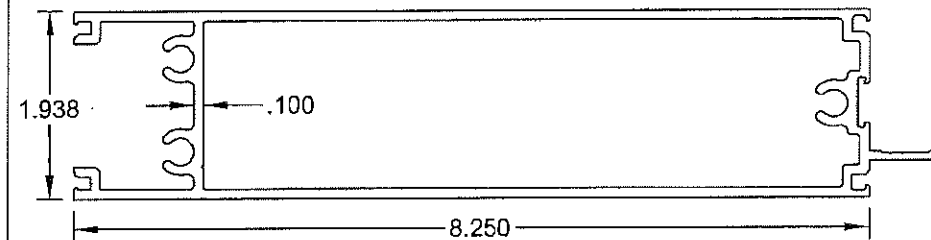
22 #8013 6063-T6  
BOTTOM RAIL



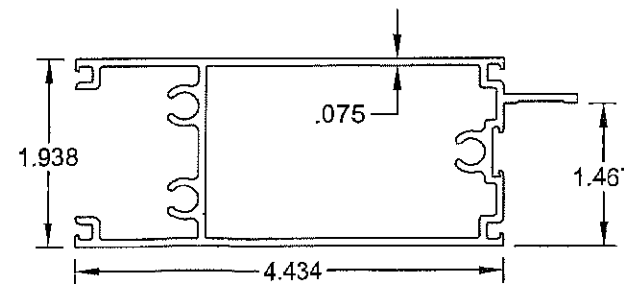
21 #8014 6063-T5  
TOP RAIL



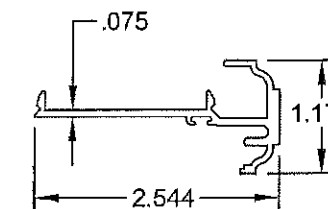
24 #8016 6063-T5  
BOTTOM SWEEP



56 #8013A 6063-T6  
BOTTOM RAIL, LAG BOLT DESIGN



55 #8014A 6063-T5  
TOP RAIL, LAG BOLT DESIGN



26 #8015 6063-T6  
ASTRAGAL

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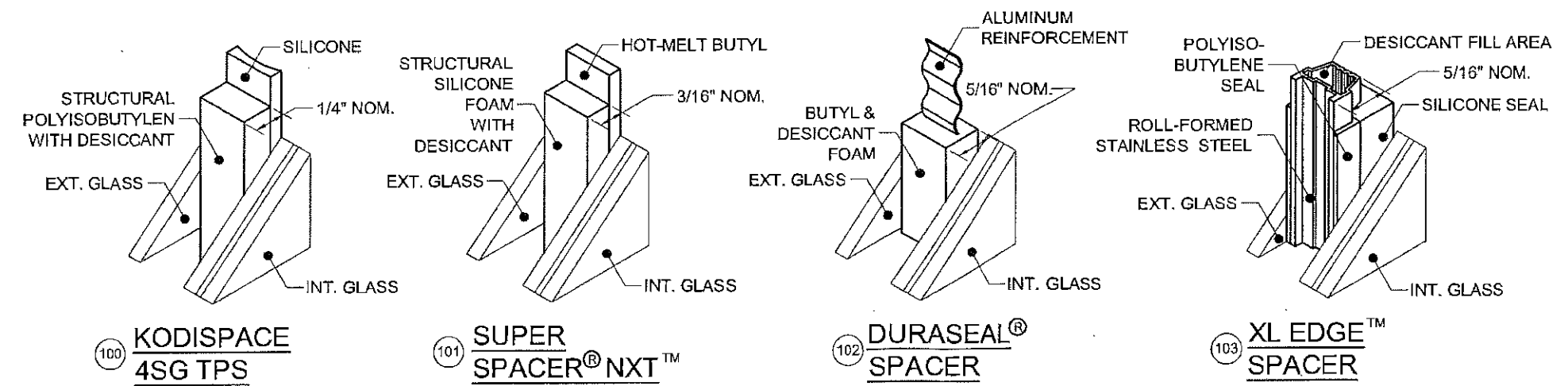
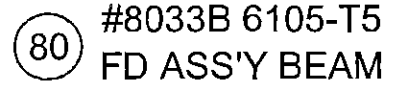
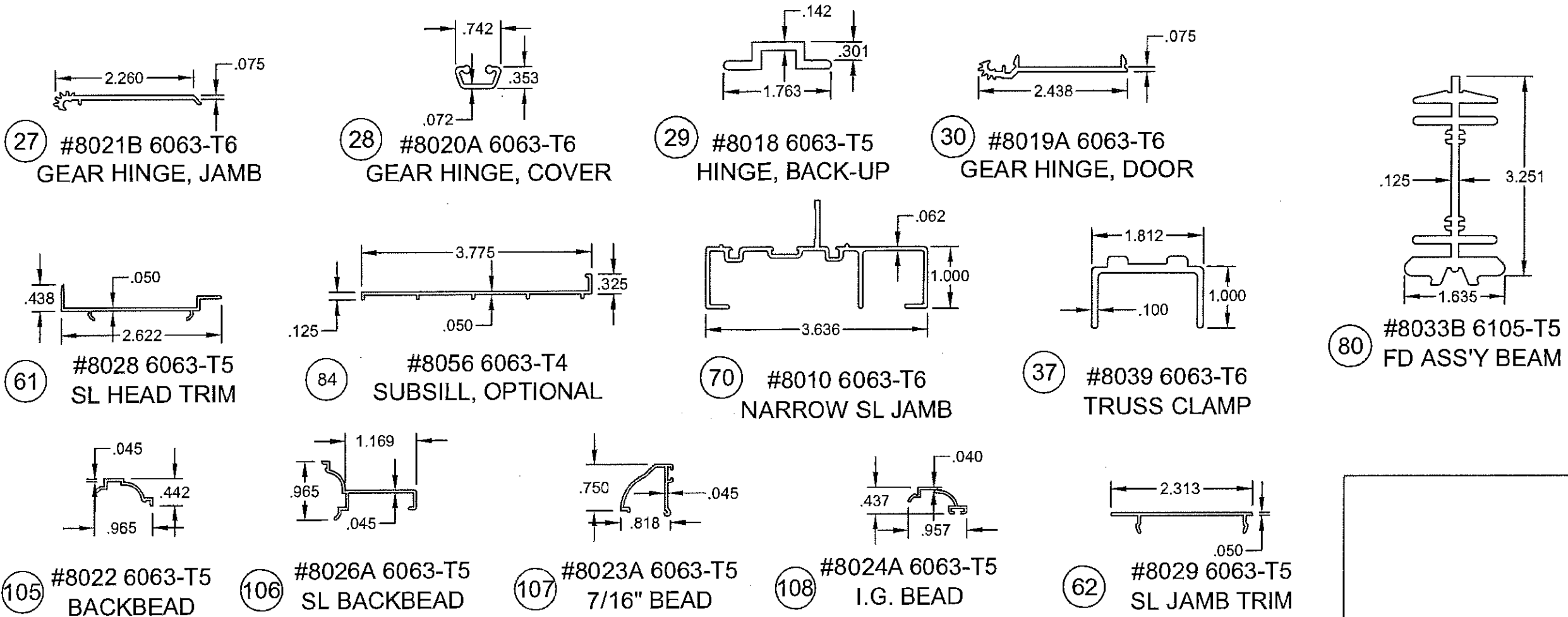
*6/18/16*  
A. LYNN MILLER, P.E.  
FL P.E.# 58705

Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
F.K.	12/23/04	L.T.	4/8/05

1070 TECHNOLOGY DRIVE  
NOKOMIS, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274



Description: <b>EXTRUSION PROFILES</b>			
Title: <b>ALUM. FRENCH DOOR &amp; SIDE LITES, IMPACT</b>			
Series/Model: FD750	Scale: 1/2	Sheet: 8 of 12	Drawing No. 8000-11
			Rev: F

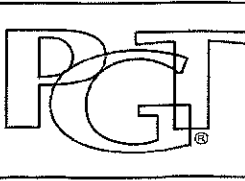


Part #	Description	Material
100	Kommerling 4SG TPS Spacer System	See this Sheet for Materials
101	Quanex Super Spacer nXT with Hot Melt Butyl	
102	Quanex Duraseal Spacer	
103	Cardinal XL Edge Spacer	

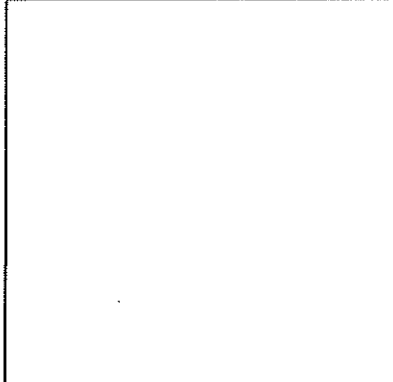
REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970

Revised By:	Date:	Revisions:
J.R.	05/05/16	F ADDED SPACERS.
Drawn By:	Date:	Checked By:
F.K.	12/23/04	L.T. 4/8/05

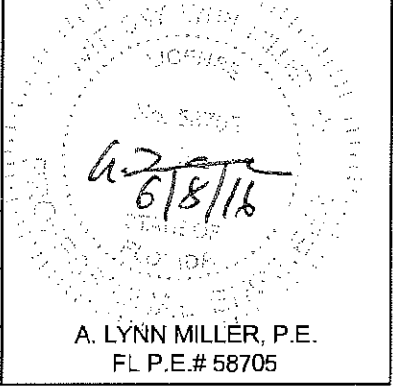
1070 TECHNOLOGY DRIVE  
NOKOMIS, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274

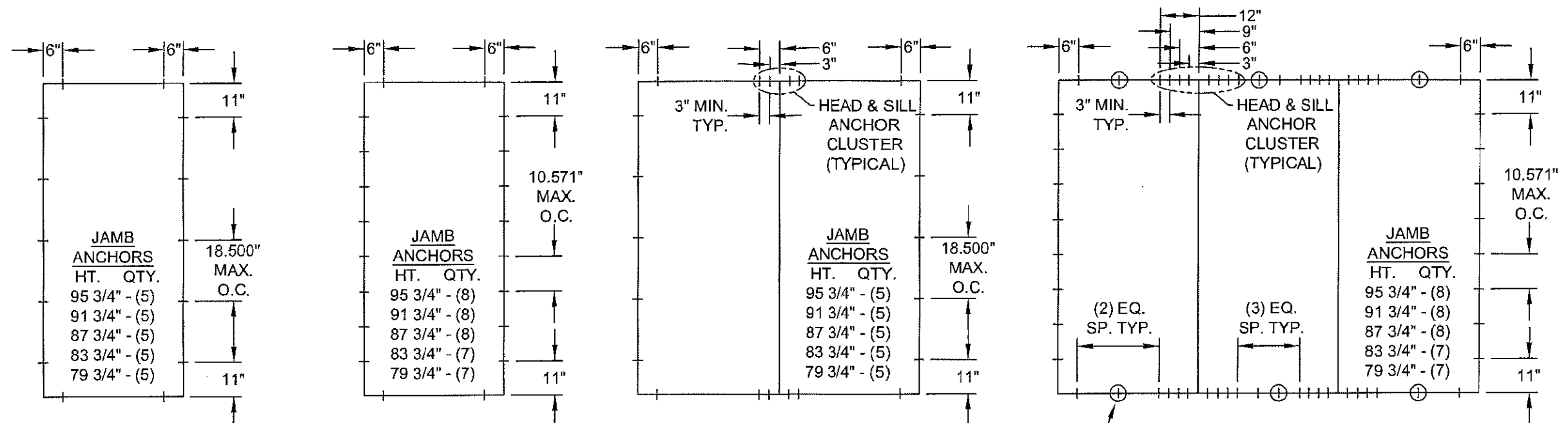


Description:  
**EXTRUSION PROFILES**  
Title:  
**ALUM. FRENCH DOOR & SIDE LITES, IMPACT**  
Series/Model: FD750 Scale: 1/2 Sheet: 9 of 12 Drawing No. 8000-11 Rev: F



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**DETAIL A (CONCRETE)**  
(SINGLE PANEL)  
ANCHOR TYPES:  
1 OR 2

**DETAIL B (WOOD)**  
(SINGLE PANEL)  
ANCHOR TYPES:  
2 OR 3

**DETAIL C (CONCRETE)**  
(2 OR MORE PANELS)  
ANCHOR TYPES:  
1 OR 2

**DETAIL D (WOOD)**  
(2 OR MORE PANELS)  
ANCHOR TYPES:  
2 OR 3

SEE NOTE 5  
REGARDING  
APPLICABILITY  
OF ENCIRCLED  
ANCHOR  
LOCATIONS

**ANCHORAGE SPACING REQUIREMENTS:**

1. DETAILS A AND B ABOVE REPRESENT ANCHORING OF SINGLE X DOORS, OR INDIVIDUAL SIDE LITE O PANELS WITH FULL OR NARROW WIDTH JAMBS. DETAILS C AND D ABOVE REPRESENT ANCHORING OF ANY MIXTURE OF DOUBLE XX DOORS, SINGLE X DOORS, NARROW JAMB OR FULL JAMB SIDE LITE PANELS, FOR MULTIPLE-PANEL INSTALLATIONS OF TWO OR MORE PANELS. UNLESS OTHERWISE STATED, DIMENSIONS OF DETAILS A THROUGH D ARE MAXIMUMS.

2. ANCHOR TYPES: 1 - 1/4" ELCO ULTRACON 2 - 1/4" ELCO SS4 CRETE-FLEX 3 - #12 STEEL SCREW (G5)

CONCRETE SUBSTRATE USE TYPE 1 AT 1 3/8" MIN. EMBEDMENT OR TYPE 2 AT 1 3/4" EMBEDMENT. 1 3/4" MIN. EDGE DISTANCE FOR BOTH.  
WOOD SUBSTRATE - USE TYPE 2 OR TYPE 3 AT 1 3/8" MIN. EMBEDMENT.

3. SINGLE PANEL CONFIGURATIONS: (DETAIL A, CONCRETE SUBSTRATE. DETAIL B, WOOD SUBSTRATE)

HEAD AND SILL.....6" MAX. FROM FRAME CORNERS.  
JAMBS.....11" MAX. FROM FRAME CORNERS, 18.500" MAX. O.C. CONCRETE SUBSTRATE (DETAIL A) AND 10.571" MAX. O.C. WOOD SUBSTRATE (DETAIL B).

4. TWO OR MORE PANEL CONFIGURATIONS: (DETAIL C, CONCRETE SUBSTRATE)

HEAD AND SILL.....6" MAX. FROM FRAME CORNERS, AND AT 3" AND 6" MAX. ON EACH SIDE OF ASSEMBLY BEAM AND/OR ASTRAGAL LOCATIONS (CLUSTER OF 4).  
JAMBS.....11" MAX. FROM FRAME CORNERS AND 18.500" MAX. O.C.

5. TWO OR MORE PANEL CONFIGURATIONS: (DETAIL D, WOOD SUBSTRATE)

HEAD AND SILL.....6" MAX. FROM FRAME CORNERS, AND AT 3", 6", 9" AND 12" MAX. ON EACH SIDE OF ASSEMBLY BEAM AND/OR ASTRAGAL LOCATIONS (CLUSTER OF 8).  
PLUS ENCIRCLED ANCHORS OUTSIDE CLUSTERS, REQUIRED ONLY ON PANEL WIDTHS OVER 27 3/4".  
JAMBS.....11" MAX. FROM FRAME CORNERS AND 10.571" MAX. O.C.

**PRODUCT REVISED**  
as complying with the Florida  
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NOA-No. **16-0629.16**

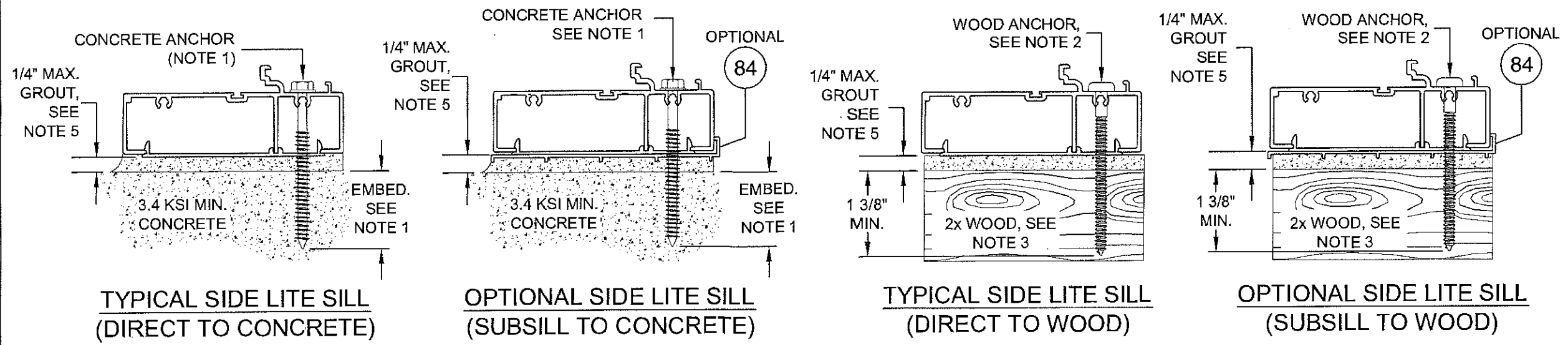
Expiration Date **02/24/2020**

By *[Signature]*  
Miami-Dade Product Control

*[Signature]*  
6/8/16  
A. LYNN MILLER, P.E.  
FL P.E.# 58705

Revised By:	Date:	Revisions:	1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275  P.O. BOX 1529 NOKOMIS, FL 34274		Description: <b>ANCHORAGE SPACING</b>				
Revised By:	Date:	Revisions:			Title: <b>ALUM. FRENCH DOOR &amp; SIDE LITES, IMPACT</b>				
Revised By:	Date:	Revisions:			Series/Model: FD750	Scale: 1/4	Sheet: 10 of 12	Drawing No. 8000-11	Rev: F
Drawn By: F.K.	Date: 12/23/04	Checked By: L.T.			Date: 4/8/05				





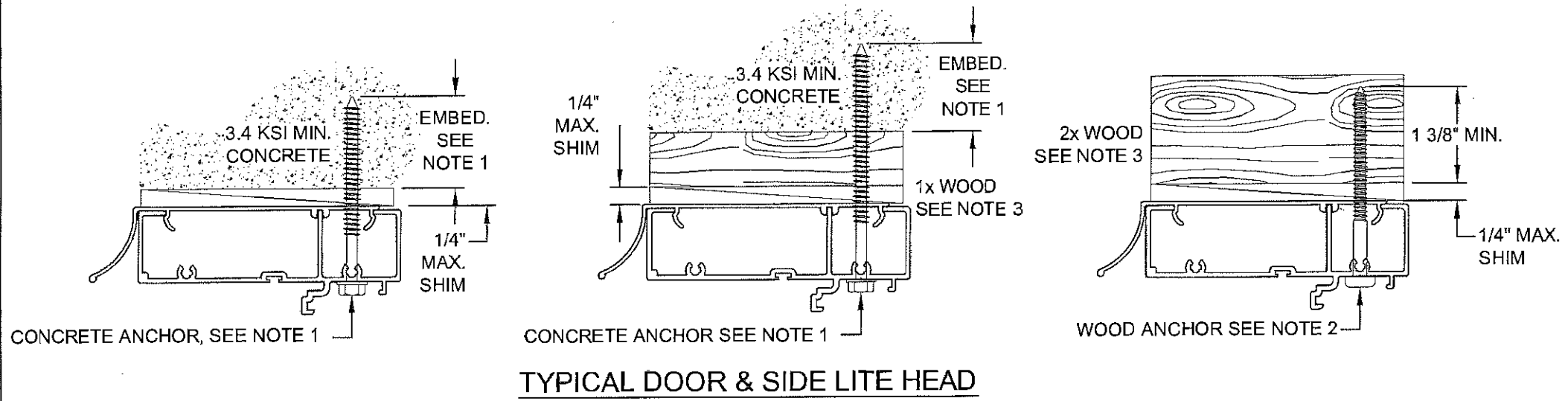
TYPICAL SIDE LITE SILL  
(DIRECT TO CONCRETE)

OPTIONAL SIDE LITE SILL  
(SUBSILL TO CONCRETE)

TYPICAL SIDE LITE SILL  
(DIRECT TO WOOD)

OPTIONAL SIDE LITE SILL  
(SUBSILL TO WOOD)

← EXTERIOR INTERIOR →  
(ALL HEAD & SILL SECTIONS)

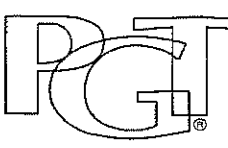


TYPICAL DOOR & SIDE LITE HEAD

- NOTES:**
1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ELCO 1/4" ULTRACONS OR 1/4" SS4 CRETE-FLEX. MIN. DISTANCE FROM ANCHOR TO CONCRETE EDGE IS 1 3/4". MIN. EMBEDMENT: 1/4" ULTRACON - 1 3/8", 1/4" SS4 CRETE-FLEX - 1 3/4".
  2. FOR WOOD APPLICATIONS USE #12 STEEL SCREWS (G5) OR ELCO 1/4" SS4 CRETE-FLEX - 1 3/8" MIN. EMBEDMENT FOR EITHER.
  3. WOOD BUCKS DEPICTED AS 1x ARE LESS THAN 1 1/2" THICK. 1x WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE. 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 (AHJ).
  4. FOR ATTACHMENT TO ALUM: THE MAT'L SHALL BE A MIN. STRENGTH OF 6063-T5 AND A MIN. OF 1/8" THICK. THE ALUM. STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE DOOR FRAME SIMILAR TO THAT SHOWN IN THE DETAILS ON THIS SHEET FOR 2x WOOD BUCKS. THE ANCHOR SHALL BE A #12 SMS WITH FULL ENGAGEMENT INTO THE ALUM. IF THESE CRITERIA ARE MET, THE PRESSURES SHOWN ON SHEET 3 AND ANCHORAGE SPACING FOR WOOD SHOWN ON SHEET 10 MAY BE USED.
  5. IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, 3400 PSI MIN., (DONE BY OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE.

Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
F.K.	12/23/04	L.T.	4/8/05

1070 TECHNOLOGY DRIVE  
NOKOMIS, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274



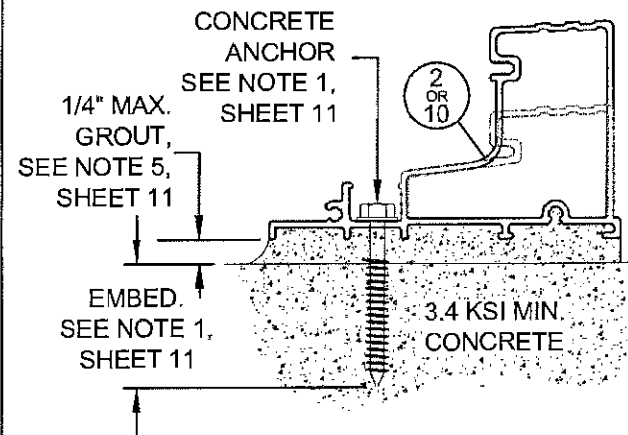
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Title: <b>ALUM. FRENCH DOOR &amp; SIDE LITES, IMPACT</b>				
Series/Model:	Scale:	Sheet:	Drawing No.:	Rev.:
FD750	1/4	11 of 12	8000-11	F

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **16-0629.16**  
Expiration Date **02/24/2020**

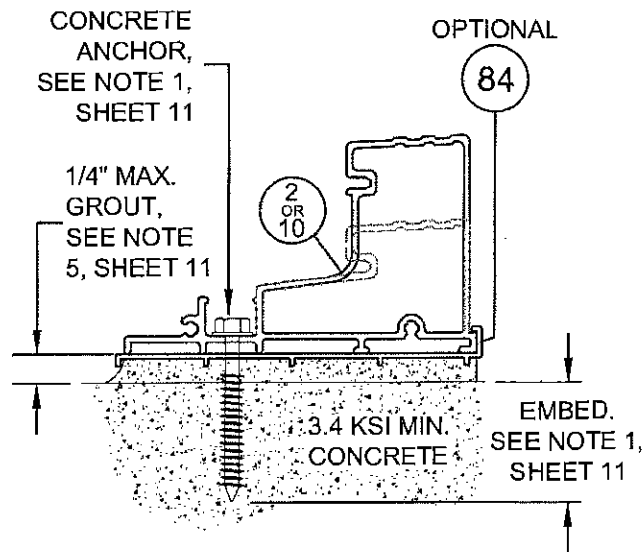
By   
Miami-Dade Product Control

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

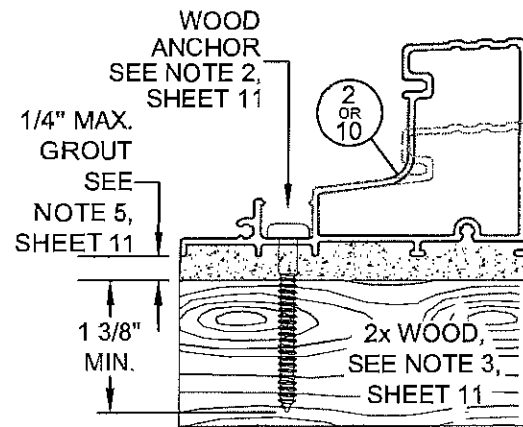
← EXTERIOR INTERIOR →  
(ALL SILL SECTIONS)



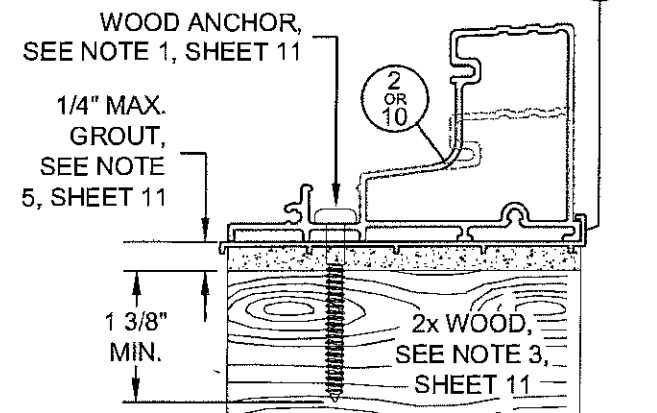
**TYPICAL DOOR SILL  
(DIRECT TO CONCRETE)**



**OPTIONAL DOOR SILL  
(SUBSILL TO CONCRETE)**

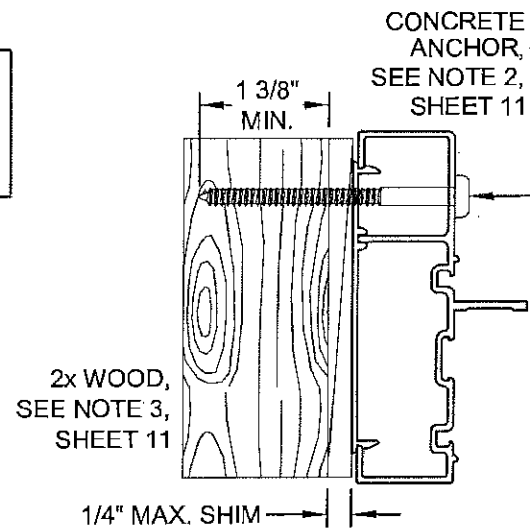
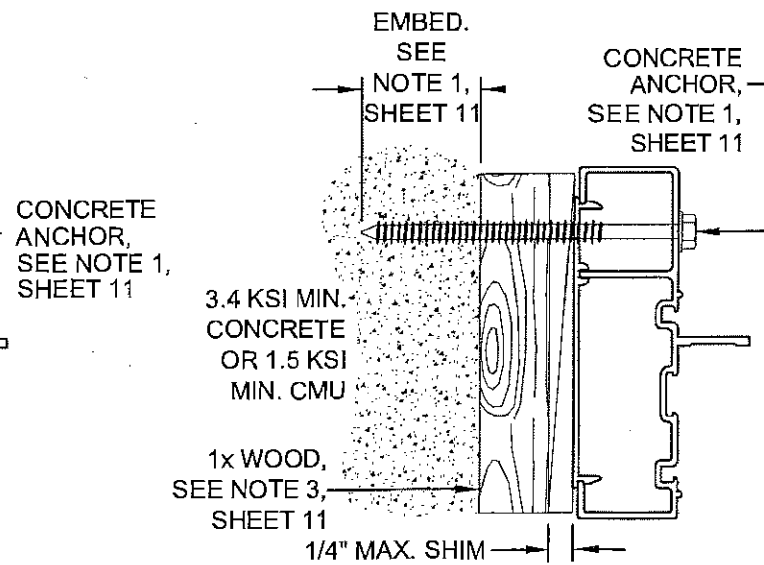
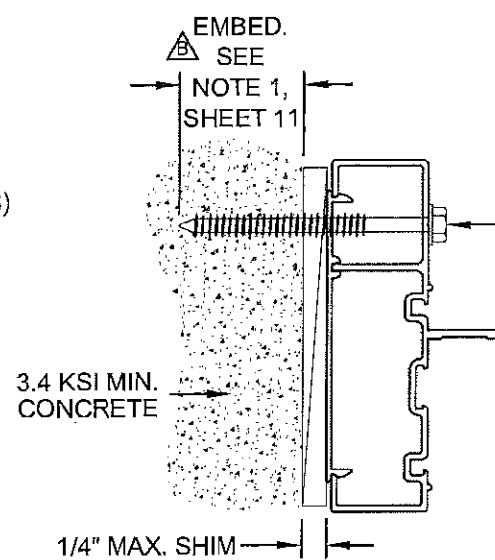


**TYPICAL DOOR SILL  
(DIRECT TO WOOD)**



**OPTIONAL DOOR SILL  
(SUBSILL TO WOOD)**

↑ INTERIOR  
(ALL JAMB SECTIONS)  
EXTERIOR ↓



**TYPICAL DOOR & SIDE LITE JAMB**

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **16-0629.16**  
Expiration Date **02/24/2020**  
By *[Signature]*  
Miami-Dade Product Control

Revised By:	Date:	Revisions:	
Revised By:	Date:	Revisions:	
Revised By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
F.K.	12/23/04	L.T.	4/8/05

1070 TECHNOLOGY DRIVE  
NOKOMIS, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274



Description: <b>ANCHORAGE DETAILS</b>				
Title: <b>ALUM. FRENCH DOOR &amp; SIDE LITES, IMPACT</b>				
Series/Model:	Scale:	Sheet:	Drawing No.:	Rev.:
FD750	1/4	12 of 12	8000-11	F

*[Signature]*  
6/8/16  
A. LYNN MILLER, P.E.  
FL P.E.# 58705



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

**PGT Industries, Inc.**  
 1070 Technology Drive  
 North Venice, FL 34275

**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 "SGD-780" Aluminum Sliding Glass Door w/90° & 135° corner (Reinf/Non-Reinf)- L.M.I.

**APPROVAL DOCUMENT:** Drawing No. MD-780.0 Rev A, titled "Aluminum Sliding Glass Door (LM)", sheets 1 through 18 of 18, dated 10/05/15 and last revised on 06/08/16, prepared by PGT Industries, 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

**Limitations:**

1. Max Panels configuration is allowed per tables 1 thru 3, not to exceed 462.11 ft<sup>2</sup>. The inside/outside 90° & 135° corner units are limited to straight panel each corner side per tables 1 thru 3.
2. See sheets 7 & 8 for Design Pressure (DP), glass type, sill type for positive DP limit, applicable reinforcement and anchorage quantity requirements. See sheets 12 thru 15 for anchors lay out at tracks and corners. See Pocket anchor details in sheet 6.
3. Pockets wall, cavity are not part of this approval. Exterior/Interior Pocket wall & applicable Egress requirement to be reviewed by Building official.

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

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

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

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

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

This NOA revises NOA #15-0903.09 and consists of this page 1 and evidence pages E-1 & E-2, as well as approval document mentioned above.

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



NOA No. 16-0629.10  
 Expiration Date: August 02, 2017  
 Approval Date: August 11, 2016  
 Page 1

8/11/16

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections (Submitted under files # listed below)
2. Drawing No. **MD-780.0 Rev A**, titled "Aluminum Sliding Glass Door (LM)", sheets 1 through 18 of 18, dated 10/05/15 and last revised on 06/08/16, prepared by PGT Industries, signed and sealed by Anthony Lynn Miller, P.E.

**B. TESTS**

1. REF Test report on 1) Uniform Static Air Pressure Test, 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 Aluminum Sliding Glass Doors (w/ TPS, Super, Cardinal & Duraseal Spacers), prepared by Fenestration Testing Laboratory, Inc., Test Reports No(s) **FTL-8717**, **FTL-8970** and **FTL-8968**, dated 02/15/16, 06/07/16 and 06/20/16, all signed & sealed by Idalmis Ortega, P.E

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

Along with marked-up drawings and installation diagram of Aluminum SGD w/135<sup>0</sup> interior/Exterior corner & interior pocket mount, prepared by Fenestration Testing Laboratory, Inc., Test Reports No(s) **FTL-8322** and **FTL-8374**, dated 08/06/15, both signed and sealed by Idalmis Ortega, P. E. (Addendum letter dated Jan 18, 2016, issued by Fenestration Testing Lab)

Along with marked-up drawings and installation diagram of Aluminum SGD, prepared by Architectural Testing, Inc., Test Report No. **ATI-8124.01-401-18 R**, dated 11/13/2008, signed and sealed by Joseph A. Reed, P.E. (submitted under files #**15-0903.09**/**12-0516.04**)

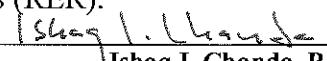
Along with marked-up drawings and installation diagram of Aluminum SGD, prepared by Fenestration Testing Laboratory, Inc., Test Reports No(s) **FTL-5618**, dated 06/21/2008, **FTL-5619**, dated 07/07/2008, **FTL-5254**, dated 05/17/2007 and **FTL-5273**, dated 05/07/2007 respectively, all signed and sealed by Carlos S. Rionda, P. E.(Submitted under file #**11-1018.12**)

**C. CALCULATIONS (submitted under files #15-0903.09)**

1. Anchor verification calculations and structural analysis dated 01/20/16, complying with FBC-2014 (5<sup>th</sup> Edition), prepared by PGT, signed and sealed by Lynn Miller, P.E.
2. Glazing complies w/ ASTME-1300-02, 04 & -09.

**D. QUALITY ASSURANCE**

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

  
Ishaq I. Chanda, P.E.  
Product Control Examiner  
NOA No. 16-0629.10  
Expiration Date: August 02, 2017  
Approval Date: August 11, 2016

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** (Former E.I. DuPont DeNemours & Co., Inc.) for the “**Sentry Glass ® (Clear and White) Glass Interlayers**”, expiring on 07/04/18.
2. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** (Former E.I. DuPont DeNemours & Co., Inc.) for the “**Kurray Butacite PVB Interlayers**”, expiring on 12/11/2016.

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2014(5<sup>th</sup> edition) and letter of no financial interest, prepared by PGT, dated 08/28/15, signed and sealed by Lynn Miller, P.E.(submitted under files #15-0903.09)
2. Spacer reference e-mail by PGT dated Jan 13, 2016, signed by Lynn Miller, P.E.
3. Lab compliance as part of the above referenced test report.

**G. OTHER**

1. This NOA **revises** NOA #15-0903.09, expiring 08/02/17.
2. Test proposal # **16-0152** dated 03/09/16, #**14-1739**, Test proposals No(s) **09-0177, 0177-A, B & C** and approved by RER and Test proposal # **07-2583**, approved by BCCO.
3. AAMA's Technical Paper for SGD & Bi-fold doors referenced to FBC 2014 (5<sup>th</sup> edition).



\_\_\_\_\_  
Ishaq I. Chanda, P.E.

Product Control Examiner  
NOA No. 16-0629.10

Expiration Date: August 02, 2017  
Approval Date: August 11, 2016

# SERIES 780, IMPACT RESISTANT SLIDING GLASS DOOR INCLUDING POCKETS & 90°/135° CORNERS

## GENERAL NOTES

- GLAZING TYPE OPTIONS: SEE TABLE B, THIS SHEET & GLAZING DETAILS ON SHEET 11.
- DESIGN PRESSURES:
  - NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E1300.
  - POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E1300.
- ANCHORAGE: THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE.
- SHUTTERS ARE NOT REQUIRED PER FBC REQUIREMENTS, AS APPLICABLE.
- INSTALLATION SCREWS, FRAME SPLICES, FRAME AND PANEL CORNERS TO BE SEALED WITH NARROW JOINT SEALANT.
- REFERENCES: ELCO ULTRACON, CRETEFLEX AND AGGREGATOR NOA'S, ANSI/AF&PA NDS FOR WOOD CONSTRUCTION AND ADM, ALUMINUM DESIGN MANUAL.
- THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DOOR SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER THE CURRENT FLORIDA BUILDING CODE, AS APPLICABLE.
- APPLICABLE TEST REPORTS: FTL-5254, 5273, 5618, 5619, 8322, 8374 & ATI-81241.01-401-18.

TABLE A:

Group	Anchor	Substrate	Frame Member	Min. Edge Distance	Min. Embedment
A	1/4" Elco Ultracon	Concrete (min. 2.85 ksi)	Head/Sill/Jamb/P-hook	2-1/2"	1-3/8"
		UngROUTED CMU, (ASTM C-90)	Jamb/P-hook	2-1/2"	1-1/4"
B	1/4" Elco 410 S.S. CreteFlex	Concrete (min. 3.35 ksi)	Head/Sill/Jamb/P-hook	1"	1-3/4"
		P.T. Southern Pine (SG=0.55)	Head/Sill/Jamb/P-hook	1"	1-3/8"
		UngROUTED CMU, (ASTM C-90)	Jamb/P-hook	1-3/4"	1-1/4"
C	1/4" Elco Ultracon	Concrete (min. 2.85 ksi)	Head/Sill/Jamb/P-hook	1"	1-3/8"
		UngROUTED CMU, (ASTM C-90)	Jamb	1"	1-1/4"
		P-hook	2-1/2"	1-1/4"	
	#12, steel SMS (G5) or 410 S.S. SMS, (min. 11 threads/in)	P.T. Southern Pine (SG=0.55)	Head/Sill/Jamb/P-hook	9/16"	1-3/8"
		Aluminum, 6063-T5*	Head/Sill/Jamb	3/8"	0.0713"
			P-hook	3/8"	0.125"
		Steel, A36*	Head/Sill/Jamb/P-hook	3/8"	0.060"
Steel Stud, A653 Gr. 33*		Head/Sill/Jamb/P-hook	3/8"	0.056"	
D	1/4" Elco 18-8 S.S. Aggre-Gator	Concrete (min. 2.22 ksi)	Head/Sill/Jamb/P-hook	1-1/2"	1-3/8"
		UngROUTED CMU, (ASTM C-90)	Jamb/P-hook	2"	1-1/4"
		Grouted CMU (ASTM C-90, min. 2 ksi grout)	Jamb/P-hook	2"	2"
		P.T. Southern Pine (SG=0.55)	Head/Sill/Jamb/P-hook	1"	1-3/8"

\* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE. METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

FOR STEEL STUDS, MIN. FU=45 KSI & MIN. FY=33 KSI.

"UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

TABLE B: SEE DETAILS ON SHEET 11

Glass Type	Description (Listed from Exterior to Interior)	Table #	Sheet #
1	7/16" Laminated: (1) Lite of 3/16" ANN Glass and (1) Lite of 3/16" HS Glass with .090" PVB Interlayer	2	7
2	9/16" Laminated: (1) Lite of 1/4" ANN Glass and (1) Lite of 1/4" HS Glass with .090" PVB Interlayer	2	7
3	1-1/16" Laminated I.G.: 3/16" T Exterior Cap + 7/16" Air Space + 7/16" Laminated consisting of (1) Lite of 3/16" ANN Glass and (1) Lite of 3/16" HS Glass with .090" PVB Interlayer	2	7
4	1-1/16" Laminated I.G.: 1/4" T Exterior Cap + 3/8" Air Space + 7/16" Laminated consisting of (1) Lite of 3/16" ANN Glass and (1) Lite of 3/16" HS Glass with .090" PVB Interlayer	2	7
5	7/16" Laminated: (1) Lite of 3/16" ANN Glass and (1) Lite of 3/16" HS Glass with .090" SG Interlayer	1	7
6	9/16" Laminated: (1) Lite of 1/4" ANN Glass and (1) Lite of 1/4" HS Glass with .090" SG Interlayer	1	7
7	7/16" Laminated: (2) Lites of 3/16" HS Glass with .090" SG Interlayer	3	8
8	9/16" Laminated: (2) Lites of 1/4" HS Glass with .090" SG Interlayer	3	8
9	1-1/16" Laminated I.G.: 3/16" T Exterior Cap + 7/16" Air Space + 7/16" Laminated consisting of (1) Lite of 3/16" ANN Glass and (1) Lite of 3/16" HS Glass with .090" SG Interlayer	1	7
10	1-1/16" Laminated I.G.: 1/4" T Exterior Cap + 3/8" Air Space + 7/16" Laminated consisting of (1) Lite of 3/16" ANN Glass and (1) Lite of 3/16" HS Glass with .090" SG Interlayer	1	7
11	1-1/16" Laminated I.G.: 3/16" T Exterior Cap + 7/16" Air Space + 7/16" Laminated consisting of (2) Lites of 3/16" HS Glass with .090" SG Interlayer	3	8
12	1-1/16" Laminated I.G.: 1/4" T Exterior Cap + 3/8" Air Space + 7/16" Laminated consisting of (2) Lites of 3/16" HS Glass with .090" SG Interlayer	3	8

## ANCHOR NOTES

- FOR CONCRETE/CMU SUBSTRATE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ELCO ANCHORS. SEE TABLE A ON THIS SHEET FOR EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS.
- FOR OTHER SUBSTRATE APPLICATIONS SEE TABLE A ON THIS SHEET.
- WOOD BUCKS DEPICTED AS 1X ARE LESS THAN 1-1/2" THICK. PROPERLY SECURED, 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE OR CMU. 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. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD & TO BE REVIEWED BY THE BUILDING OFFICIAL.
- METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
- IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, MAX. 1/4" THICK & 3400 PSI MIN., (DONE BY OTHERS) 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.


## STANDARDS USED:

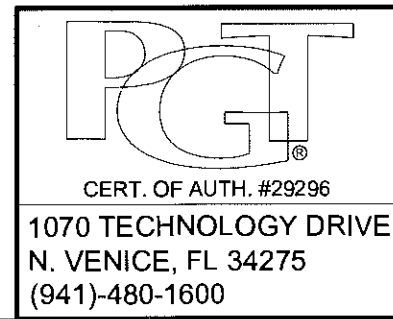
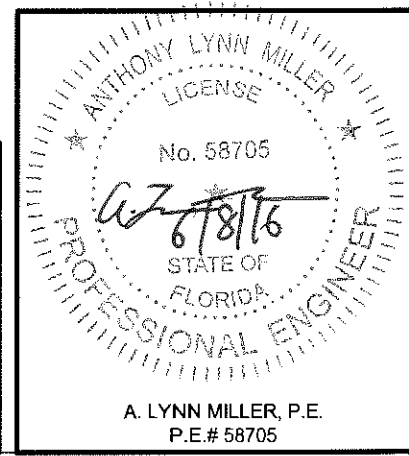
- 2014 FLORIDA BUILDING CODE (FBC), 5TH EDITION
- ASTM E1300-09
- ANSI/AF&PA NDS-2012 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2010
- AISI-S100-07/S2-2010

IMPACT RATING  
RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE

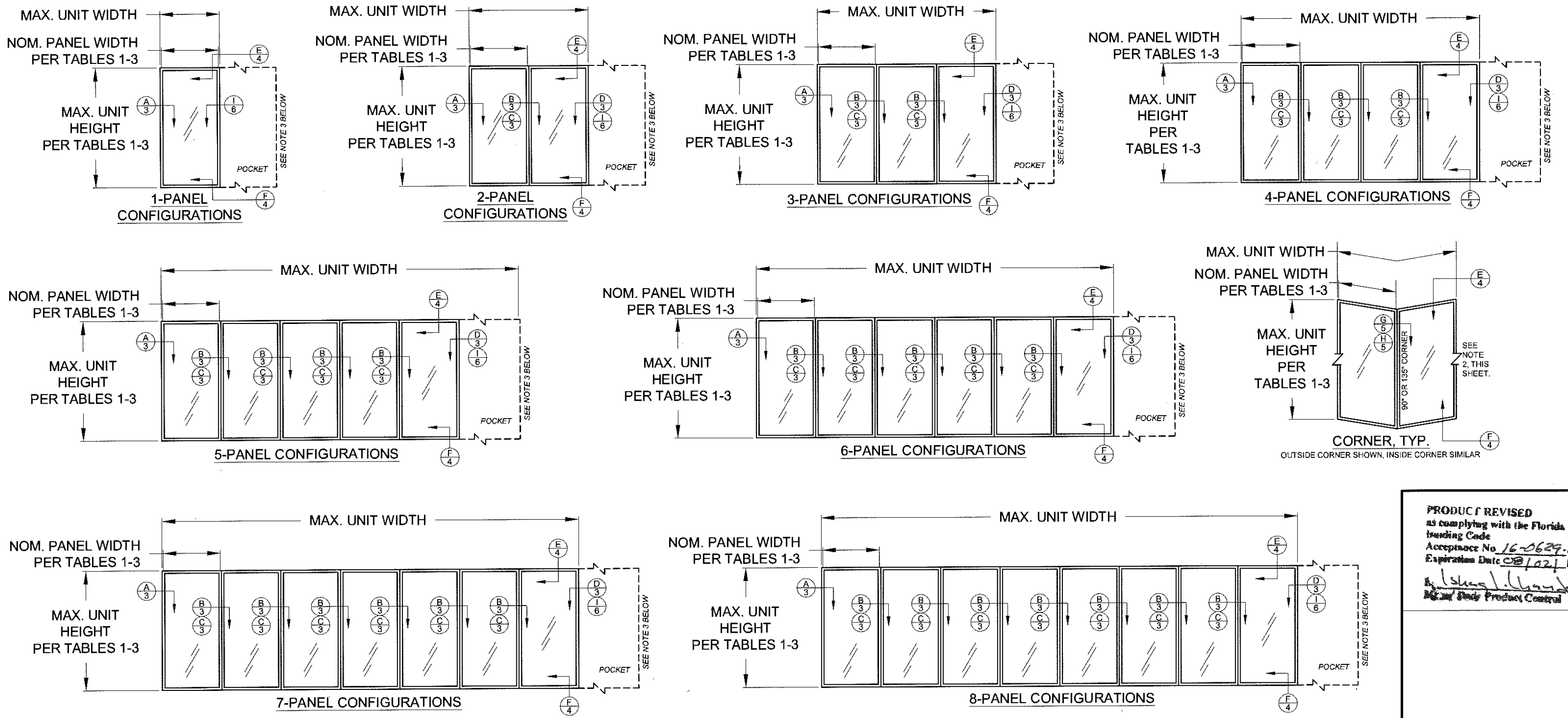
DESIGN PRESSURE RATING  
SEE TABLES 1-3 & C1-C2 ON SHEETS 7 & 8

GENERAL NOTES..... 1  
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 EXAMPLES..... 9-10  
 GLAZING DETAILS..... 11  
 ANCHOR LOCATIONS..... 12-15  
 PANEL TYPES..... 16  
 EXTRUSIONS..... 17  
 PARTS LIST..... 18

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 16-0629.10 Expiration Date: 01/02/2017  
  
 Product Control

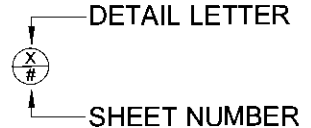


Series	Rev A	Title	ALUMINUM SLIDING GLASS DOOR NOA (LM)	Date	10/05/15
		Desc.	GENERAL NOTES	Drawn By	J ROSOWSKI
		Rev A	ADDED SPACERS TO SHEET 11. - JR	Date	05/15/16
SGD-780	Scale	NTS	Sheet	1 OF 18	DWG No. MD-780.0
				Rev. No.	A



**CONFIGURATIONS NOTES:**

- 1) ALL CONFIGURATIONS SHOWN ARE ALSO AVAILABLE AS POCKET CONFIGURATIONS AT EITHER OR BOTH JAMB LOCATIONS. EXAMPLE: 4-PANEL XXXX IN POCKET (p) CONFIGURATION CAN BE pXXXXp, pXXXX OR XXXXp. OXXX IN POCKET CONFIGURATION CAN BE OXXXp.
- 2) 90° & 135° CORNER CONFIGURATIONS ARE A COMBINATION OF ANY 2 STRAIGHT CONFIGURATIONS.
- 3) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
- 4) FOR NOM. PANEL WIDTH, SEE TABLES 1-3.
- 5) MAX. ALLOWABLE FRAME SQUARE FOOTAGE = 462.11 FT<sup>2</sup>



"X" = OPERABLE PANEL  
 "O" = INOPERABLE PANEL  
 "p" = POCKET

DLO WIDTH = NOM. PANEL WIDTH - 7.875"  
 DLO HEIGHT (STD. BOT. RAIL, #22) = DOOR UNIT HEIGHT - 13.47"  
 DLO HEIGHT (TALL BOT. RAIL, #23) = DOOR UNIT HEIGHT - 17.29"  
 PANEL HEIGHT = DOOR UNIT HEIGHT - 2.25"

**PGT**  
 CERT. OF AUTH. #29296  
 1070 TECHNOLOGY DRIVE  
 N. VENICE, FL 34275  
 (941)-480-1600

Series	SGD-780	Scale	NTS	Sheet	2 OF 18	DWG No.	MD-780.0	Rev. No.	A
Rev A	Date	Rev B	Date	Title: ALUMINUM SLIDING GLASS DOOR NOA (LM) Date: 10/05/15					
Desc.:				CONFIGURATIONS		Drawn By:		J ROSOWSKI	

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No 16-0629-10  
 Expiration Date 08/02/17  
*[Signature]*  
 Product Control

Professional Engineer Seal for A. LYNN MILLER, P.E. #58705. Includes a signature and date: *A2* 6/8/16.

OPT. 1X OR 2X WOOD BUCKSTRIP,  
SEE ANCHOR NOTE 3, SHEET 1

CONCRETE/CMU PER  
ANCHOR REQUIREMENT

**DETAIL A1**  
THRU 1X WOOD  
INTO MASONRY

**DETAIL B1**  
ASTRAGAL  
FACING EXT.

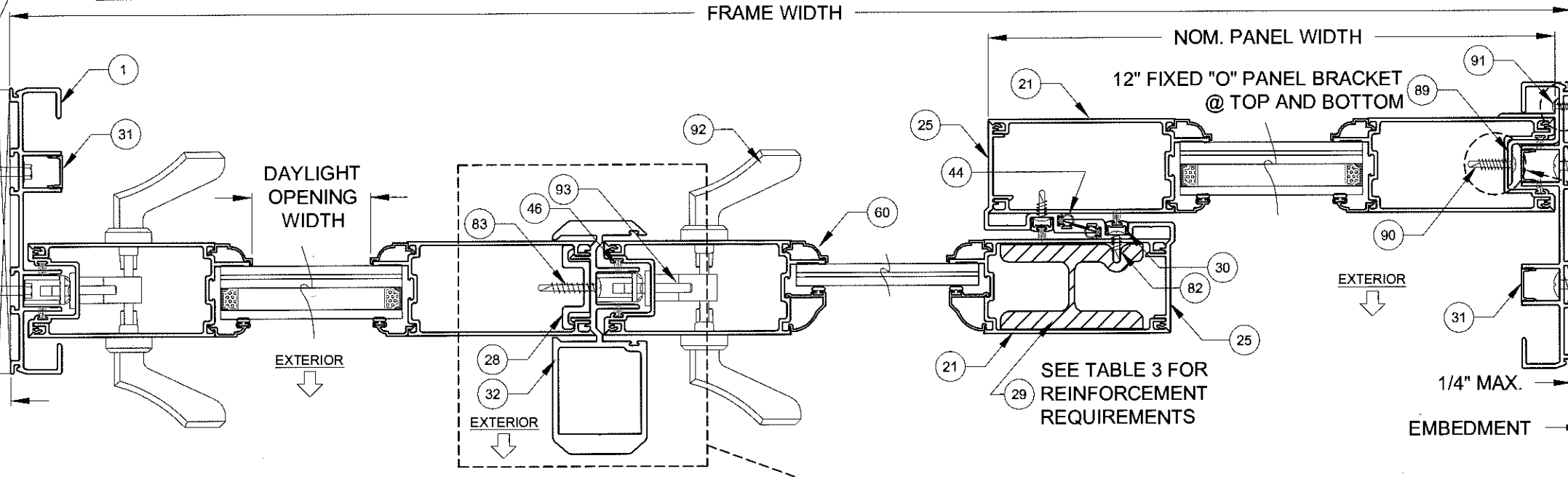
**DETAIL C1**  
INTERLOCK

**DETAIL D1**  
INTO METAL

METAL TYP., SEE ANCHOR  
NOTE 4, SHEET 1; MIN. OF 3  
THREADS BEYOND THE  
METAL SUBSTRATE

TYP. ANCHOR TYPE,  
EMBEDMENT AND  
EDGE DISTANCE PER  
SUBSTRATE, SEE  
TABLE A, SHEET 1 &  
NOTE 3, BELOW

EDGE DISTANCE  
1/4" MAX.



EDGE  
DISTANCE

1-1/2" FROM  
EACH END

EDGE  
DISTANCE

1/4" MAX.  
EMBEDMENT

SEE TABLE 3 FOR  
REINFORCEMENT  
REQUIREMENTS

**HORIZONTAL SECTION (XXO SHOWN)**

**DETAIL A2**  
INTO 2X WOOD

**DETAIL C2**  
INTERLOCK

**DETAIL D2**  
INTO MASONRY

**DETAIL B2**  
ASTRAGAL  
FACING INT.

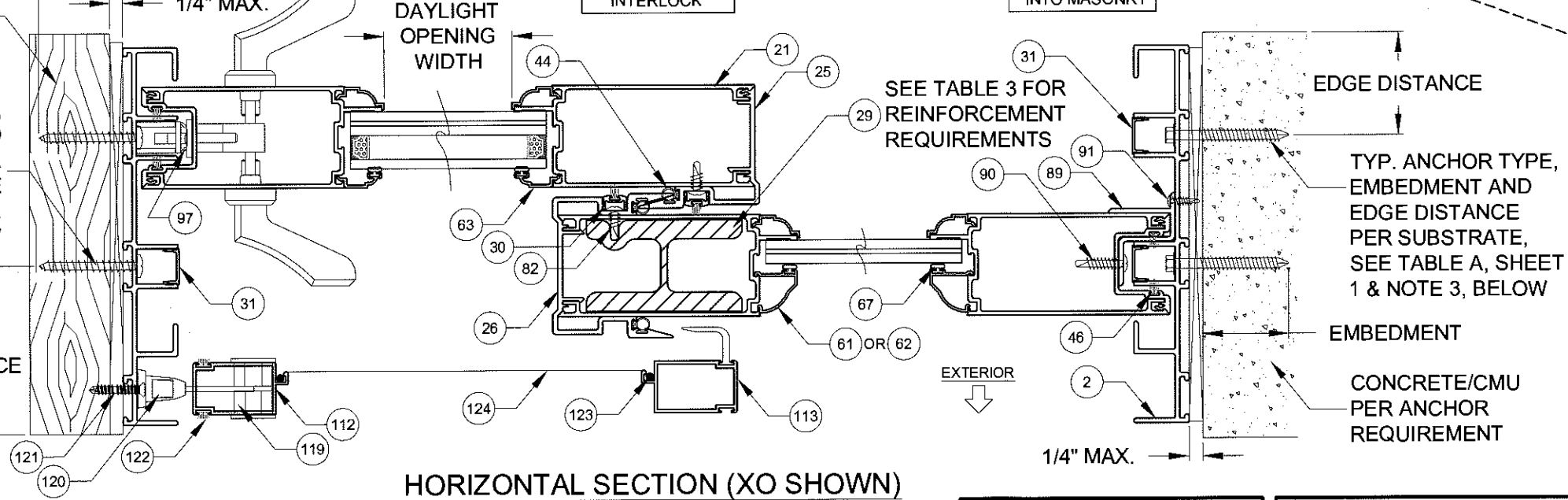
TYP. ANCHOR TYPE,  
EMBEDMENT AND EDGE  
DISTANCE PER  
SUBSTRATE, SEE TABLE A,  
SHEET 1 & NOTE 3, BELOW

2X WOOD  
BUCKSTRIP OR  
FRAMING, SEE  
ANCHOR NOTE 3,  
SHEET 1

TYP. ANCHOR TYPE,  
EMBEDMENT AND  
EDGE DISTANCE PER  
SUBSTRATE, SEE  
TABLE A, SHEET 1 &  
NOTE 3, BELOW

EMBEDMENT  
1/4" MAX.

EDGE  
DISTANCE



EDGE DISTANCE

TYP. ANCHOR TYPE,  
EMBEDMENT AND  
EDGE DISTANCE  
PER SUBSTRATE,  
SEE TABLE A, SHEET  
1 & NOTE 3, BELOW

EMBEDMENT

CONCRETE/CMU  
PER ANCHOR  
REQUIREMENT

ASTRAGAL MAY BE  
INSTALLED IN EITHER  
INTERIOR OR EXTERIOR  
DIRECTION. ALL PARTS  
IDENTICAL.

**HORIZONTAL SECTION (XO SHOWN)**

- NOTES**
- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
  - 2) REFER TO ANCHOR NOTES, SHEET 1.
  - 3) SEE SHEET 12 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1-3.
  - 4) ALL REINFORCEMENTS ARE APPROXIMATELY THE FULL LENGTH OF THE EXTRUSION. REFER TO TEST REPORTS FOR EXACT DIMENSIONS.
  - 5) FOR DAYLIGHT OPENING (DLO) FORMULAS, SEE SHEET 2.

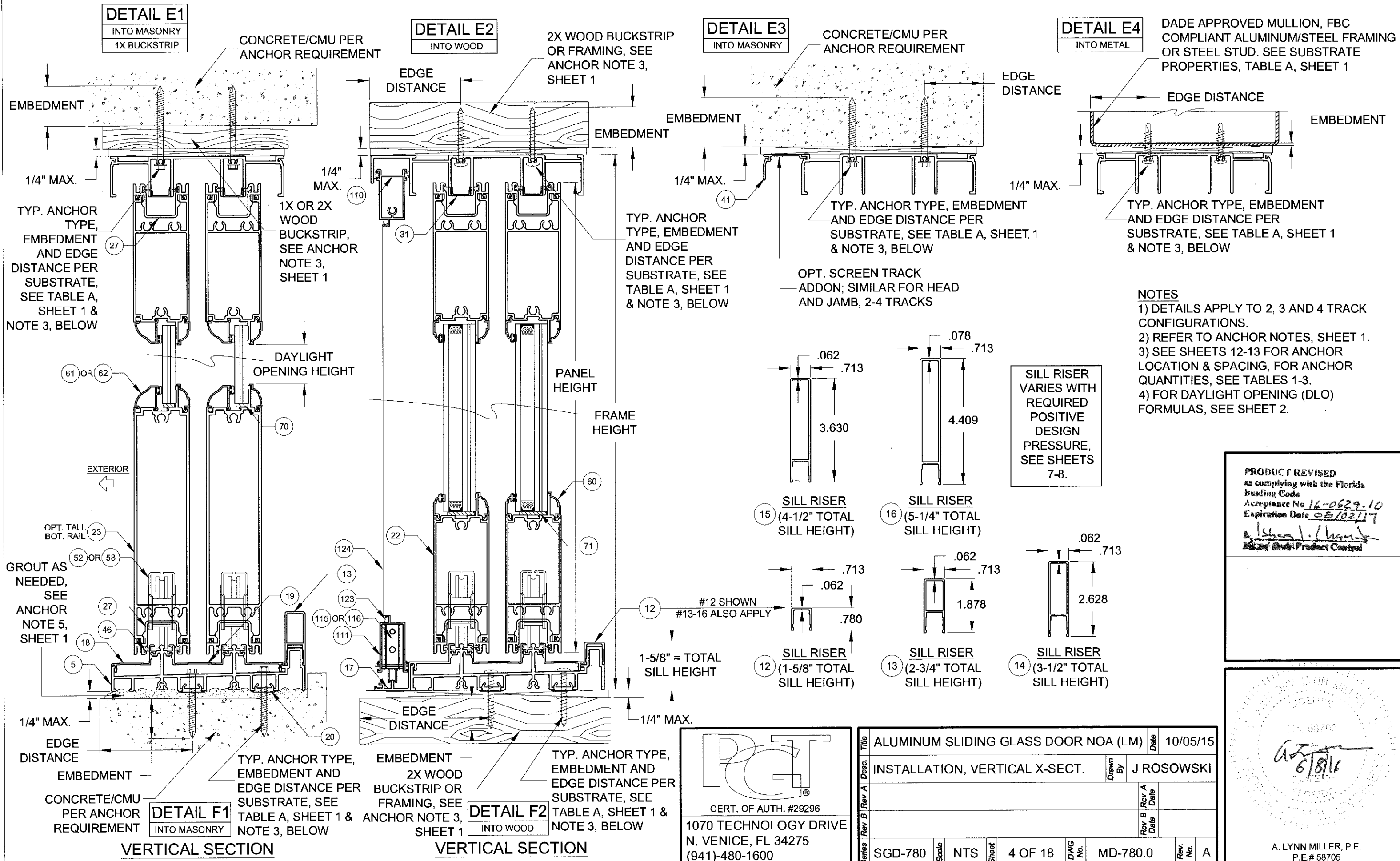
**PGI**  
CERT. OF AUTH. #29296  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941)-480-1600

Series	SGD-780	Scale	NTS	Sheet	3 OF 18	DWG No.	MD-780.0	Rev. No.	A
Title	ALUMINUM SLIDING GLASS DOOR NOA (LM)								
Desc.	INSTALLATION, HORIZONTAL X-SECT.								
Drawn By	J ROSOWSKI								
Rev A Date									
Rev B Date									

**PRODUCT REVISED**  
AS COMPLYING WITH THE Florida  
Building Code  
Acceptance No 16-0629.10  
Expiration Date 02/02/17  
A. Lynn Miller  
Major Deck Product Control

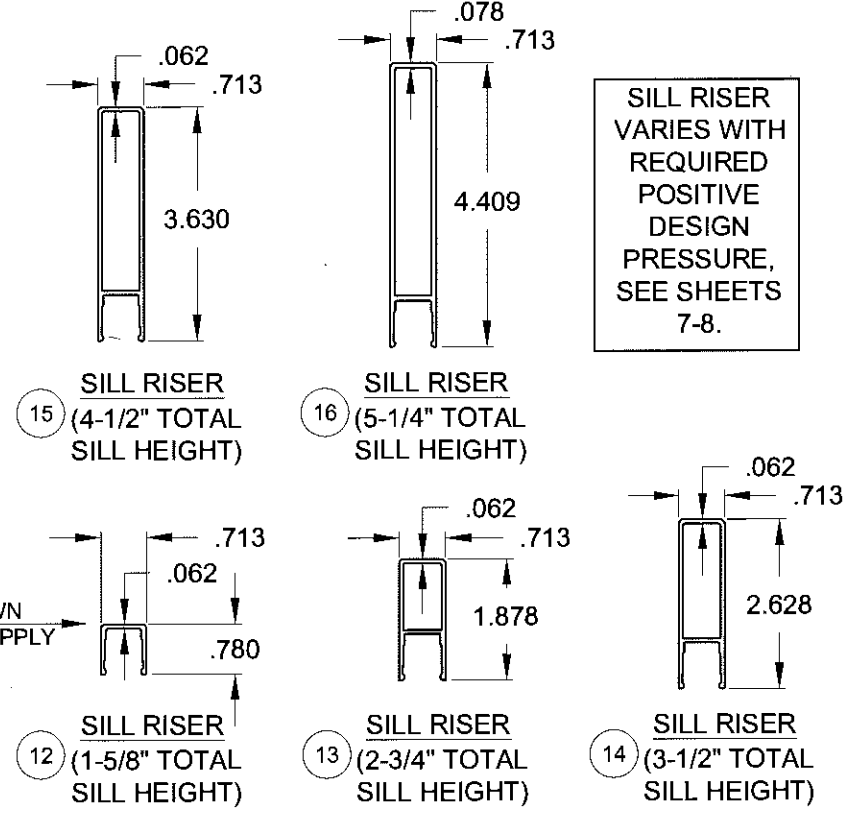
6/8/16  
A. LYNN MILLER, P.E.  
P.E.# 58705





- NOTES**
- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
  - 2) REFER TO ANCHOR NOTES, SHEET 1.
  - 3) SEE SHEETS 12-13 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1-3.
  - 4) FOR DAYLIGHT OPENING (DLO) FORMULAS, SEE SHEET 2.

SILL RISER VARIES WITH REQUIRED POSITIVE DESIGN PRESSURE, SEE SHEETS 7-8.



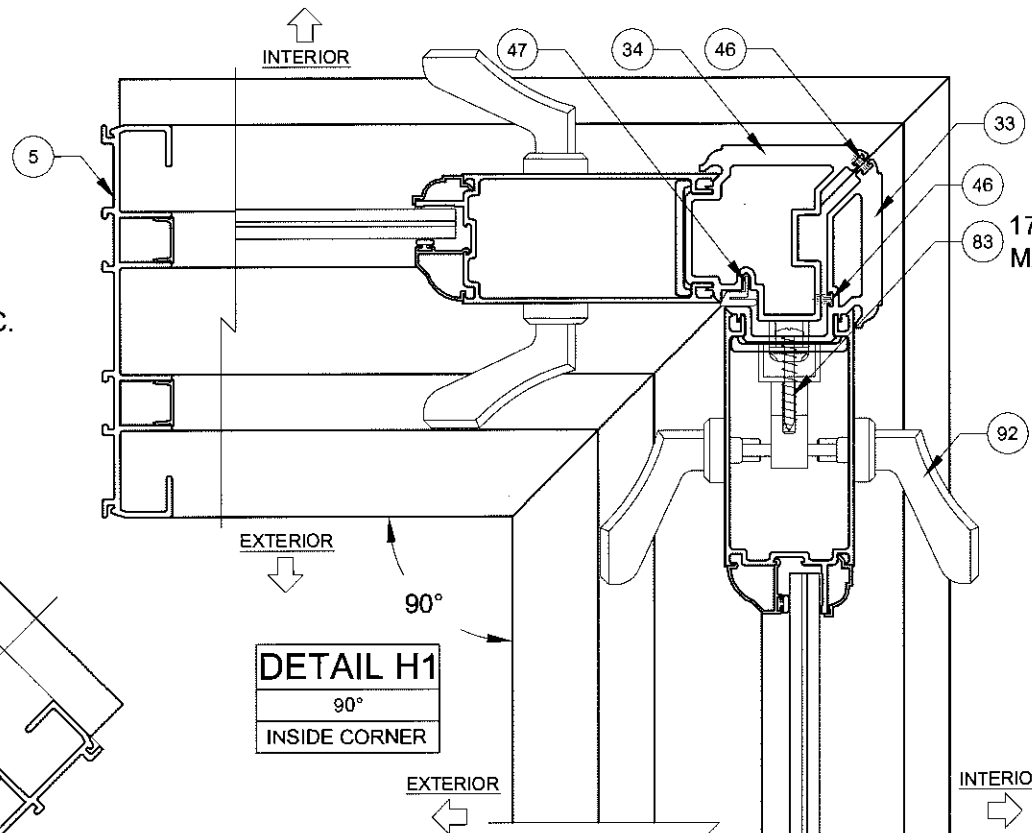
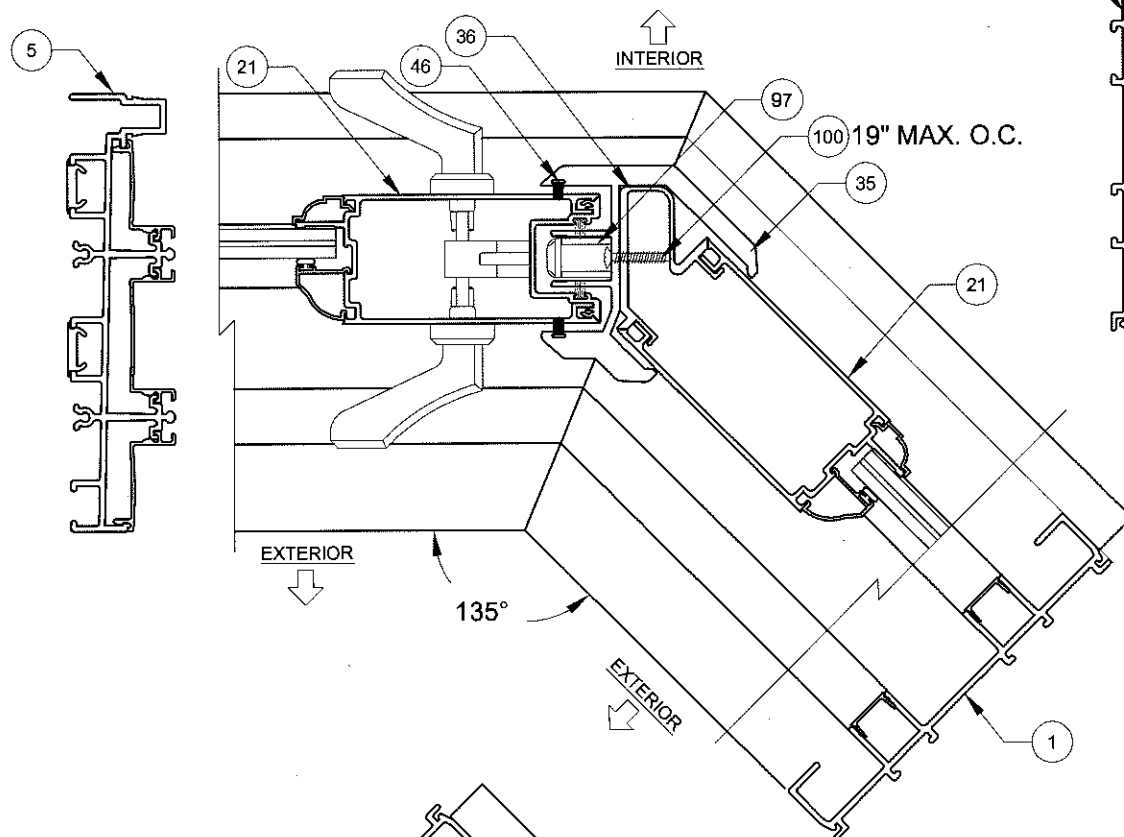
**PGI**  
 CERT. OF AUTH. #29296  
 1070 TECHNOLOGY DRIVE  
 N. VENICE, FL 34275  
 (941)-480-1600

Series	SGD-780	Scale	NTS	Sheet	4 OF 18	DWG No.	MD-780.0	Rev. No.	A
Title	ALUMINUM SLIDING GLASS DOOR NOA (LM)		Date	10/05/15					
Desc.	INSTALLATION, VERTICAL X-SECT.		Drawn By	J ROSOWSKI					
Rev A		Rev A	Date						
Rev B		Rev B	Date						

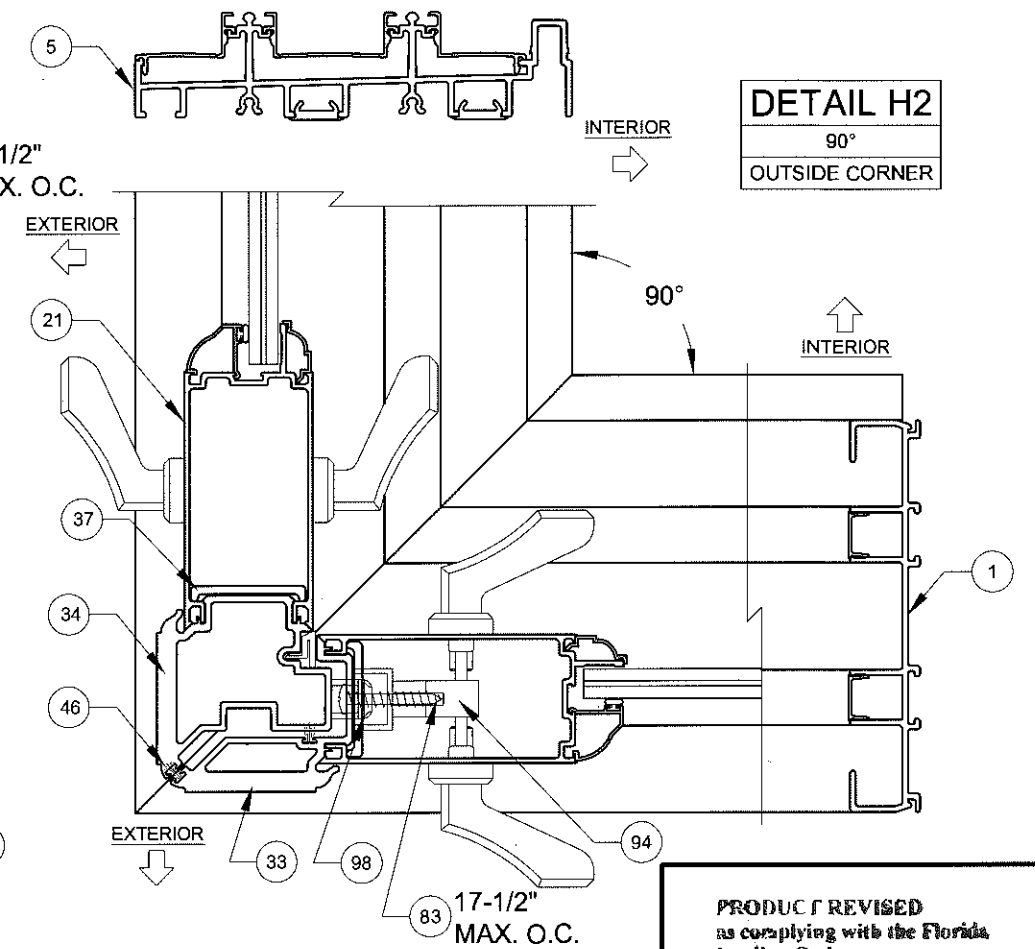
**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No 16-0629-10  
 Expiration Date 08/02/17  
*[Signature]*  
 Product Control

58705  
*[Signature]*  
 A. LYNN MILLER, P.E.  
 P.E.# 58705

**DETAIL G1**  
135°  
INSIDE CORNER

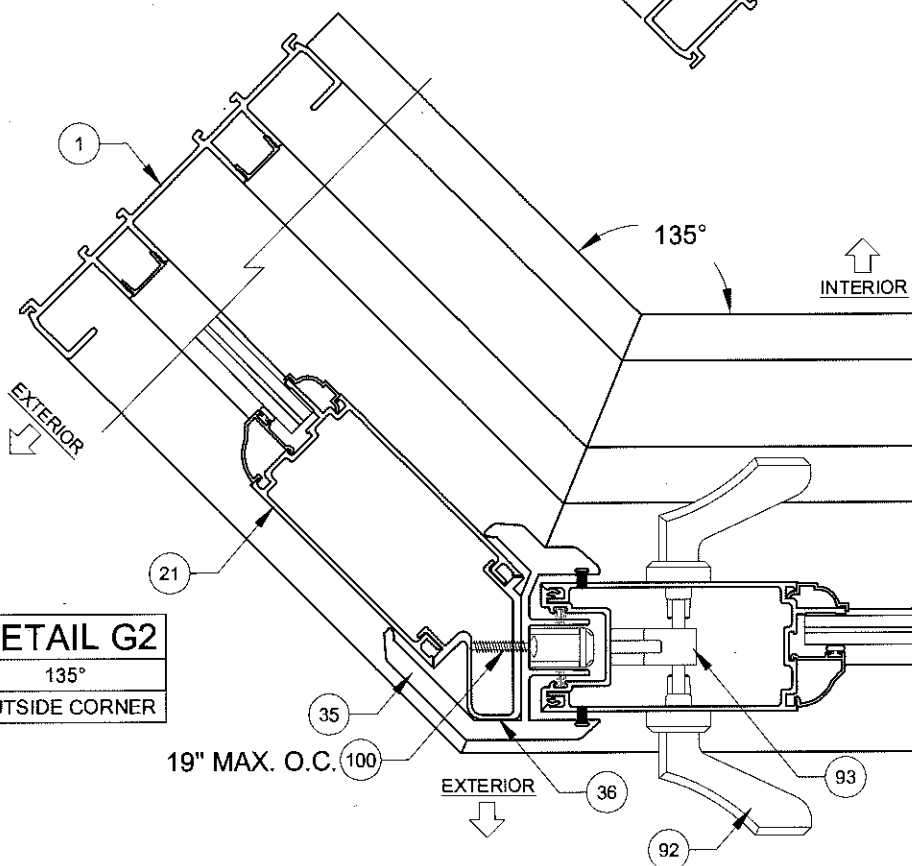


**DETAIL H1**  
90°  
INSIDE CORNER



**DETAIL H2**  
90°  
OUTSIDE CORNER

**DETAIL G2**  
135°  
OUTSIDE CORNER



**NOTES**

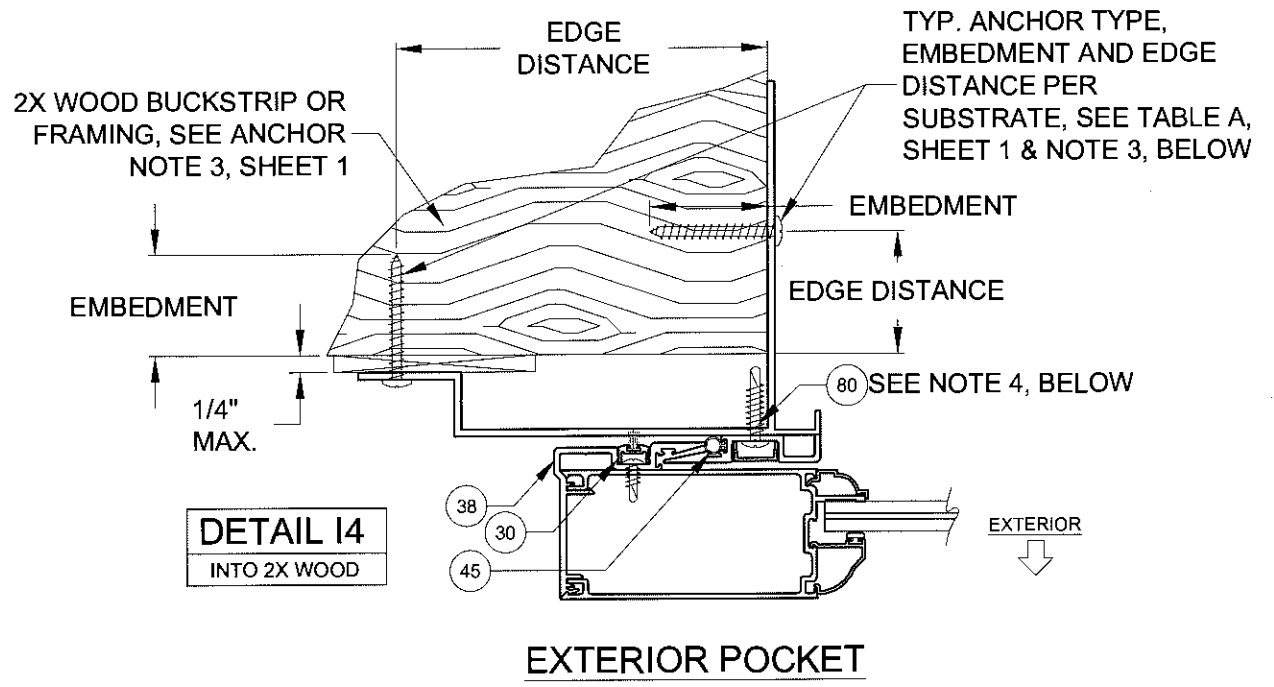
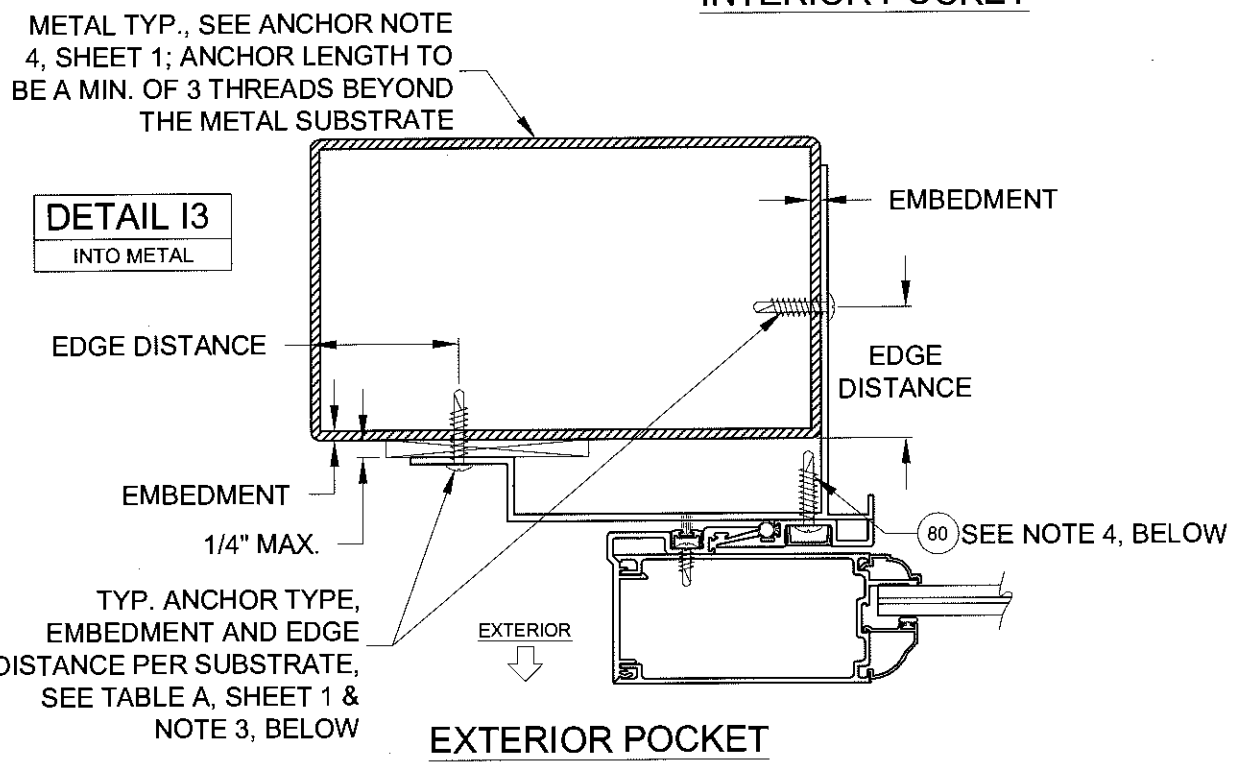
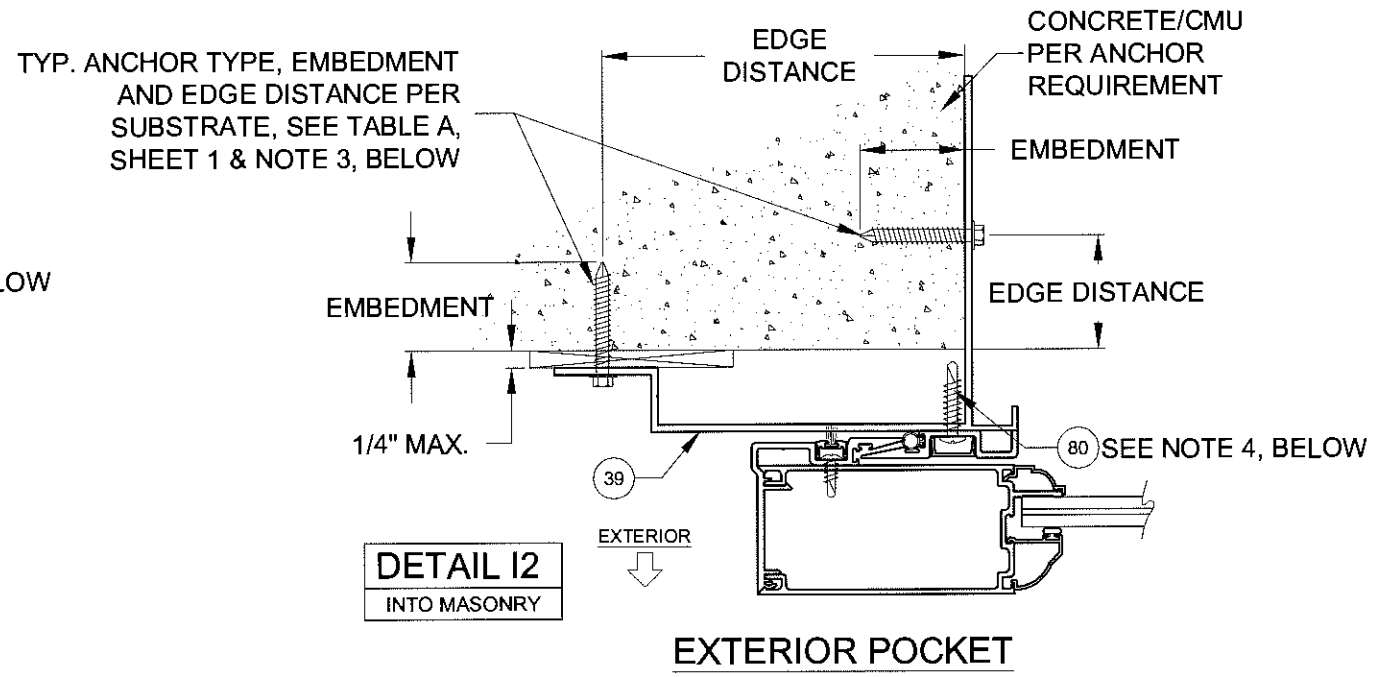
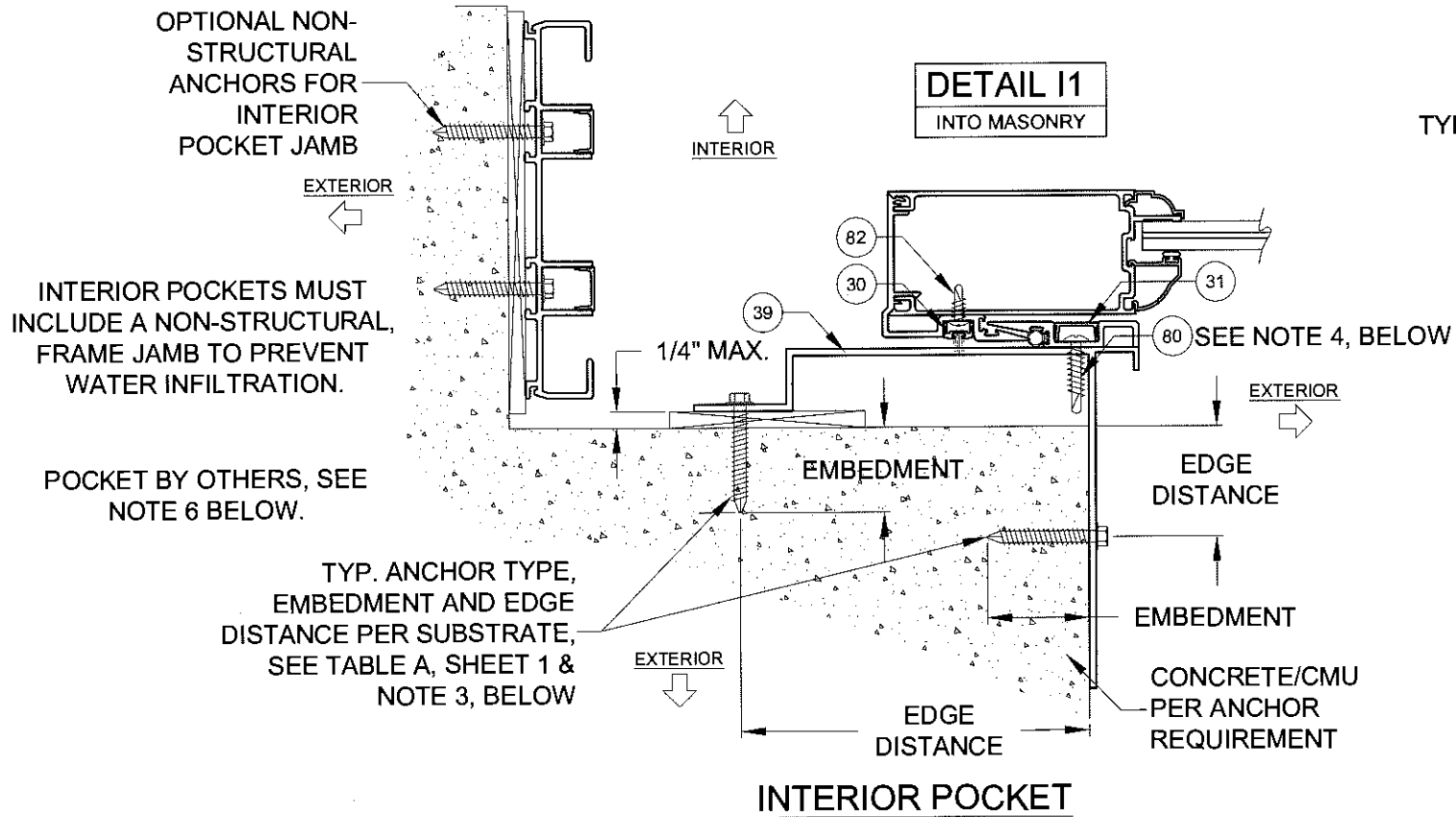
- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
- 2) SEE SHEETS 14-15 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1-3.
- 3) CORNER ASTRAGAL MAY BE EITHER TO THE INTERIOR OR EXTERIOR, DEPENDING ON CONFIGURATION.

**PGI**  
CERT. OF AUTH. #29296  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941)-480-1600

Series	SGD-780	Scale	NTS	Sheet	5 OF 18	DWG No.	MD-780.0	Rev. No.	A
Title	ALUMINUM SLIDING GLASS DOOR NOA (LM)		Date	10/05/15					
Desc.	CORNER ASTRAGAL HORIZ. X-SECT.		Drawn By	J ROSOWSKI					
Rev A	Date	Rev B	Date						

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 16-0629.10  
Expiration Date 09/02/17  
*A. Lynn Miller*  
Miami Steel Product Control

Professional Engineer Seal for A. Lynn Miller, P.E., No. 58705, State of Florida. Signature: *A. Lynn Miller*, Date: 6/8/16.



- NOTES**
- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
  - 2) REFER TO ANCHOR NOTES, SHEET 1.
  - 3) SEE SHEET 15 FOR ANCHOR LOCATION & SPACING.
  - 4) #10 X 3/4" SMS @ MAX. 5-1/2" FROM ENDS & 12" MAX. O.C.
  - 5) INTERIOR OR EXTERIOR POCKETS APPLICABLE FOR ALL INSTALLATION METHODS.
  - 6) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

**PGT**  
 CERT. OF AUTH. #29296  
 1070 TECHNOLOGY DRIVE  
 N. VENICE, FL 34275  
 (941)-480-1600

Series	SGD-780	Scale	NTS	Sheet	6 OF 18	DWG No.	MD-780.0	Rev. No.	A
Title	ALUMINUM SLIDING GLASS DOOR NOA (LM)		Date	10/05/15					
Desc.	P-HOOK EXAMPLES, HORIZ. X-SECT.		Drawn By	J ROSOWSKI					
Rev A	Date	Rev B	Date						

PRODUCT REVISED  
 As complying with the Florida  
 Building Code  
 Acceptance No 16-0629.10  
 Expiration Date 08/02/17  
 E. Shugart, Florida  
 Mechanical Product Control

No. 22708  
 A. Lynn Miller  
 6/8/16  
 A. LYNN MILLER, P.E.  
 P.E.# 58705

TABLE 1:

Design Pressure (DP) and Anchor Quantities Required, (for all approved configurations on Sheet 2)																							
For corner astragal anchorage on 90° & 135° corner units, see sheets 14 & 15																							
Table applies to Glass Types 5, 6, 9 & 10 containing ANN-HS SG Laminated Glazing. Reinforcement (part #29) is not required in the Exterior Interlock.		Door Unit Height																					
		80"				84"				96"				108"				120"					
		77-3/4" Panel Height**				81-3/4" Panel Height**				93-3/4" Panel Height**				105-3/4" Panel Height**				117-3/4" Panel Height**					
		Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group					
		A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D		
Nominal Panel Width	36"	28-1/8" DLO Width	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf				+60 / -70 psf				+60 / -70 psf			
			Head/Sill	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C6+1	C4+1	C4+1
			Jamb	6	6	6	6	8	8	8	8	8	8	8	8	8	8	8	8	10	10	10	10
			P-hook	4+4	4+4	4+4	4+4	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	5+5	5+5	5+5
	42"	34-1/8" DLO Width	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf				+60 / -70 psf				+60 / -70 psf			
			Head/Sill	C4+1	C4+2	C4+2	C4+1	C4+1	C4+2	C4+2	C4+1	C4+1	C4+2	C6+2	C4+1	C4+1	C6+1	C6+2	C4+1	C4+1	C6+1	C6+2	C4+1
			Jamb	6	6	6	8	8	8	8	8	8	8	8	10	8	8	8	10	10	10	10	10
			P-hook	4+4	4+4	4+4	4+4	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	5+5	5+5	5+5
	48"	40-1/8" DLO Width	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf				+60 / -70 psf				+60 / -70 psf			
			Head/Sill	C4+1	C4+2	C4+2	C4+2	C4+1	C4+2	C4+2	C4+2	C4+1	C6+2	C6+2	C4+2	C4+1	C6+2	C6+2	C4+2	C4+1	C6+2	C6+2	C6+2
			Jamb	6	6	6	8	8	8	8	8	8	8	8	10	8	8	8	10	10	10	10	12
			P-hook	4+4	4+4	4+4	4+4	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	5+5	5+5	5+5
	54"	46-1/8" DLO Width	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf				Not available in these sizes							
			Head/Sill	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C6+2	C4+2	C4+2	C6+2	C6+2	C4+2								
			Jamb	6	6	6	8	8	8	8	8	8	8	8	10								
			P-hook	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4								
	60"	52-1/8" DLO Width	Design Pressure	+80 / -80 psf				+80 / -80 psf				+76.2 / -76.2 psf *											
			Head/Sill	C4+2	C4+3	C4+3	C4+2	C4+2	C6+3	C6+3	C4+2	C4+2	C6+3	C6+3	C6+2								
			Jamb	6	6	6	8	8	8	8	10	8	8	8	12								
			P-hook	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4								

\*+/- 80.0 PSF FOR GLASS TYPES 6, 9 & 10. \*\*SEE FORMULAS BELOW

ANCHORAGE TYPE PER SUBSTRATE REQUIRED TO ACHIEVE THE DESIGN PRESSURE, USING THE ANCHOR QUANTITIES LISTED BELOW. SEE TABLE A, SHEET 1 FOR COMPLETE ANCHOR LIMITATIONS.

THE MAXIMUM DP AT THESE ANCHOR QUANTITIES. ADDITIONALLY, THE MAXIMUM POSITIVE DP DUE TO THE SILL HEIGHT MUST ALSO BE CONSIDERED, SEE TABLE C1, THIS SHEET.

TOTAL # OF ANCHORS CLUSTERED THROUGH THE HEAD & SILL AT EACH PANEL MEETING POINT. (EX: FOR C4+1, 4 ANCHORS REQUIRED AT PANEL MEETING POINT AND 1 ANCHOR REQUIRED AT MIDSPAN OF PANEL).

TOTAL # OF ANCHORS THROUGH THE JAMB.

THE # OF ANCHORS THROUGH THE P-HOOK INSTALLED FROM THE INTERIOR + THE # OF ANCHORS INSTALLED FROM THE EXTERIOR.

USED IN EXAMPLE 2, SHEET 10

TABLE NOTES:

1) IF WATER INFILTRATION RESISTANCE IS REQUIRED, THE LESSER VALUES OF EITHER TABLE 1 OR 2 AND TABLE C1 DETERMINES THE WATER LIMITED (+) DP.

2) THE 1-5/8" SILL RISER, #12, MAY ONLY BE USED WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIG 1. IF SO, +DP'S SHOWN IN TABLES 1 OR 2 MAY BE USED.

3) SEE SILL RISER TYPES ON SHEET 4.

4) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.

5) REFER TO ANCHOR NOTES, SHEET 1.

6) SEE SHEETS 12-15 FOR ANCHOR LOCATION & SPACING

TABLE 2:

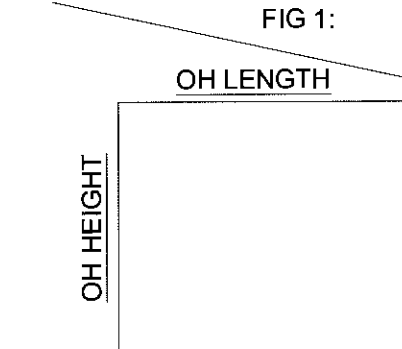
Design Pressure (DP) and Anchor Quantities Required, (for all approved configurations on Sheet 2)																					
For corner astragal anchorage on 90° & 135° corner units, see sheets 14 & 15																					
Table applies to Glass Types 1 - 4, containing ANN-HS PVB Laminated Glazing. Reinforcement (part #29) is not required in the Exterior Interlock.		Door Unit Height																			
		80"				96"															
		77-3/4" Panel Height**				93-3/4" Panel Height**															
		Anchor Group				Anchor Group															
		A	B	C	D	A	B	C	D												
Nominal Panel Width	36"	28-1/8" DLO Width	Design Pressure	+65 / -65 psf				+65 / -65 psf													
			Head/Sill	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1										
			Jamb	6	6	6	6	8	8	8	8										
			P-hook	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4										
	42"	34-1/8" DLO Width	Design Pressure	+65 / -65 psf				+65 / -65 psf													
			Head/Sill	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1										
			Jamb	6	6	6	6	8	8	8	8										
			P-hook	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4										
	48"	40-1/8" DLO Width	Design Pressure	+65 / -65 psf				+65 / -65 psf													
			Head/Sill	C4+1	C4+2	C4+2	C4+2	C4+1	C4+2	C4+2	C4+2										
			Jamb	6	6	6	6	8	8	8	8										
			P-hook	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4										

\*\*SEE FORMULAS BELOW

DLO WIDTH = NOM. PANEL WIDTH - 7.875"  
DLO HEIGHT (STD. BOT. RAIL, #22) = DOOR UNIT HEIGHT - 13.47"  
DLO HEIGHT (TALL BOT. RAIL, #23) = DOOR UNIT HEIGHT - 17.29"  
PANEL HEIGHT = DOOR UNIT HEIGHT - 2.25"

TABLE C1:

Water-Limited (+) Design Pressure		
Sill Riser	Total Sill Height	Max. (+) DP Allowed
12	1-5/8"	See Note 2
13	2-3/4"	+50.0 psf
14	3-1/2"	+73.3 psf
15	4-1/2"	+80.0 psf
16	5-1/4"	+80.0 psf



DOOR ASSEMBLIES INSTALLED WHERE THE OVERHANG (OH) LENGTH IS EQUAL TO OR GREATER THAN THE OVERHANG HEIGHT IS EXEMPTED FROM WATER INFILTRATION RESISTANCE.



Series	Rev A	Desc.	Title	Date
			ALUMINUM SLIDING GLASS DOOR NOA (LM)	10/05/15
			DP & ANCHOR QUANTITY TABLE	Drawn By J ROSOWSKI
				Rev A Date
				Rev B Date
SGD-780	Scale	NTS	Sheet	7 OF 18
	DWG No.	MD-780.0	Rev. No.	A

PRODUCT REVISED as complying with the Florida Building Code  
Acceptance No 16-0629-10  
Expiration Date 03/02/17  
Michael Decker Product Control

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

TABLE 3:

**Design Pressure (DP) and Anchor Quantities Required, (for all approved configurations on Sheet 2)**

For corner astragal anchorage on 90° & 135° corner units, see sheets 14 & 15

Table applies to Glass Types 7, 8, 11 & 12 containing HS-HS SG laminated glazing. Reinforcement (part #29) is required in the Exterior Interlock.			Door Unit Height																											
			80"				84"				96"				108"				120"				132"				144"			
			77-3/4" Panel Height**				81-3/4" Panel Height**				93-3/4" Panel Height**				105-3/4" Panel Height**				117-3/4" Panel Height**				129-3/4" Panel Height**				141-3/4" Panel Height**			
			Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group							
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
30"	22-1/8" DLO Width	Design Pressure	+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+104 / -104 psf				+92.7 / -94 psf			
		Head/Sill	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C6+1	C6+1	C4+1	C4+1	C6+1	C6+1	C6+1	C4+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1
		Jamb	6	6	6	8	8	8	8	8	8	8	8	10	8	8	8	12	10	10	10	12	10	10	10	12	12	12	12	12
		P-hook	4+4	4+4	4+4	4+4	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	5+5	5+5	5+5	6+6	6+6	6+6	6+6	6+6	6+6	6+6	6+6
36"	28-1/8" DLO Width	Design Pressure	+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+101.6 / -111.2 psf				+77.9 / -85.3 psf			
		Head/Sill	C4+1	C6+2	C6+2	C4+1	C4+1	C6+2	C6+2	C4+1	C4+1	C6+2	C6+2	C6+1	C4+1	C6+2	C8+2	C6+1	C6+1	C8+2	C8+2	C6+1	C6+1	C8+2	C8+2	C8+1	C6+1	C8+1	C8+1	C6+1
		Jamb	6	6	8	10	8	8	8	10	8	8	10	12	8	8	10	14	10	10	12	14	10	10	12	16	12	12	12	14
		P-hook	4+4	4+4	4+4	4+4	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	5+5	5+5	5+5	6+6	6+6	6+6	6+6	6+6	6+6	6+6	6+6
42"	34-1/8" DLO Width	Design Pressure	+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+88 / -96.4 psf				+67.3 / -73.8 psf			
		Head/Sill	C4+2	C6+2	C6+2	C4+2	C4+2	C6+2	C6+2	C6+2	C4+2	C6+2	C6+2	C6+2	C6+2	C8+2	C8+2	C6+2	C6+2	C8+2	C8+2	C8+2	C6+1	C8+2	C8+2	C8+2	C6+1	C6+2	C8+2	C6+1
		Jamb	6	6	8	10	8	8	8	10	8	8	10	12	8	8	12	14	10	10	12	16	10	10	12	16	12	12	12	14
		P-hook	4+4	4+4	4+4	4+4	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	5+5	5+5	5+5	6+6	6+6	6+6	6+6	6+6	6+6	6+6	6+6
48"	40-1/8" DLO Width	Design Pressure	+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+78 / -85.4 psf				+59.6 / -65.2 psf			
		Head/Sill	C4+2	C6+3	C6+3	C6+2	C4+2	C6+3	C6+3	C6+2	C6+2	C8+3	C8+3	C6+2	C6+2	C8+3	C8+3	C8+2	C6+2	C10+3	C10+3	C8+2	C6+2	C8+2	C8+2	C6+2	C6+1	C6+2	C8+2	C6+2
		Jamb	6	6	8	12	8	8	10	12	8	8	10	14	8	8	12	16	10	10	14	18	10	10	12	16	12	12	12	14
		P-hook	4+4	4+4	4+4	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	5+5	5+5	5+5	6+6	6+6	6+6	6+6	6+6	6+6	6+6	6+6	6+6
54"	46-1/8" DLO Width	Design Pressure	+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+94.8 / -103.8 psf				Not available in these sizes							
		Head/Sill	C4+2	C6+3	C6+3	C6+3	C4+2	C6+3	C6+3	C6+3	C6+2	C8+3	C8+3	C6+3	C6+2	C8+3	C10+3	C8+3	C6+2	C10+3	C10+3	C8+3								
		Jamb	6	6	10	12	8	8	10	12	8	8	12	14	8	8	14	18	10	10	14	18								
		P-hook	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	5+5	5+5	5+5	5+5	6+6	5+5	5+5	5+5	6+6								
60"	52-1/8" DLO Width	Design Pressure	+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+103.4 / -113.2 psf				+86.7 / -95 psf				Not available in these sizes							
		Head/Sill	C4+3	C6+4	C6+4	C6+3	C4+3	C6+4	C8+4	C6+3	C6+3	C8+4	C8+4	C8+3	C6+3	C10+4	C10+4	C8+3	C6+2	C10+3	C10+3	C8+3								
		Jamb	6	6	10	12	8	8	10	14	8	8	12	16	8	8	14	18	10	10	14	18								
		P-hook	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	5+5	5+5	5+5	5+5	6+6	5+5	5+5	5+5	6+6								

ANCHORAGE TYPE PER SUBSTRATE REQUIRED TO ACHIEVE THE DESIGN PRESSURE, USING THE ANCHOR QUANTITIES LISTED BELOW. SEE TABLE A, SHEET 1 FOR COMPLETE ANCHOR LIMITATIONS.

THE MAXIMUM DP AT THESE ANCHOR QUANTITIES. ADDITIONALLY, THE MAXIMUM POSITIVE DP DUE TO THE SILL HEIGHT MUST ALSO BE CONSIDERED, SEE TABLE C2, THIS SHEET.

TOTAL # OF ANCHORS CLUSTERED THROUGH THE HEAD & SILL AT EACH PANEL MEETING POINT. (EX: FOR C6+1, 6 ANCHORS REQUIRED AT PANEL MEETING POINT AND 1 ANCHOR REQUIRED AT MIDSPAN OF PANEL).

TOTAL # OF ANCHORS THROUGH THE JAMB.

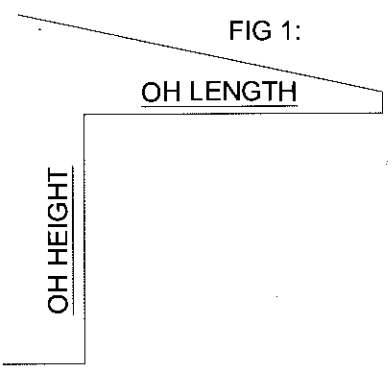
THE # OF ANCHORS THROUGH THE P-HOOK INSTALLED FROM THE INTERIOR + THE # OF ANCHORS INSTALLED FROM THE EXTERIOR.

USED IN EXAMPLE 1, SHEET 9

\*\*SEE FORMULAS BELOW

TABLE C2:

Water-Limited (+) Design Pressure		
Sill Riser	Total Sill Height	Max. (+) DP Allowed
12	1-5/8"	See Note 2
13	2-3/4"	+50.0 psf
14	3-1/2"	+73.3 psf
15	4-1/2"	+100.0 psf
16	5-1/4"	+105.0 psf



DOOR ASSEMBLIES INSTALLED WHERE THE OVERHANG (OH) LENGTH IS EQUAL TO OR GREATER THAN THE OVERHANG HEIGHT IS EXEMPTED FROM WATER INFILTRATION RESISTANCE.

DLO WIDTH = NOM. PANEL WIDTH - 7.875"  
 DLO HEIGHT (STD. BOT. RAIL, #22) = DOOR UNIT HEIGHT - 13.47"  
 DLO HEIGHT (TALL BOT. RAIL, #23) = DOOR UNIT HEIGHT - 17.29"  
 PANEL HEIGHT = DOOR UNIT HEIGHT - 2.25"

TABLE NOTES:

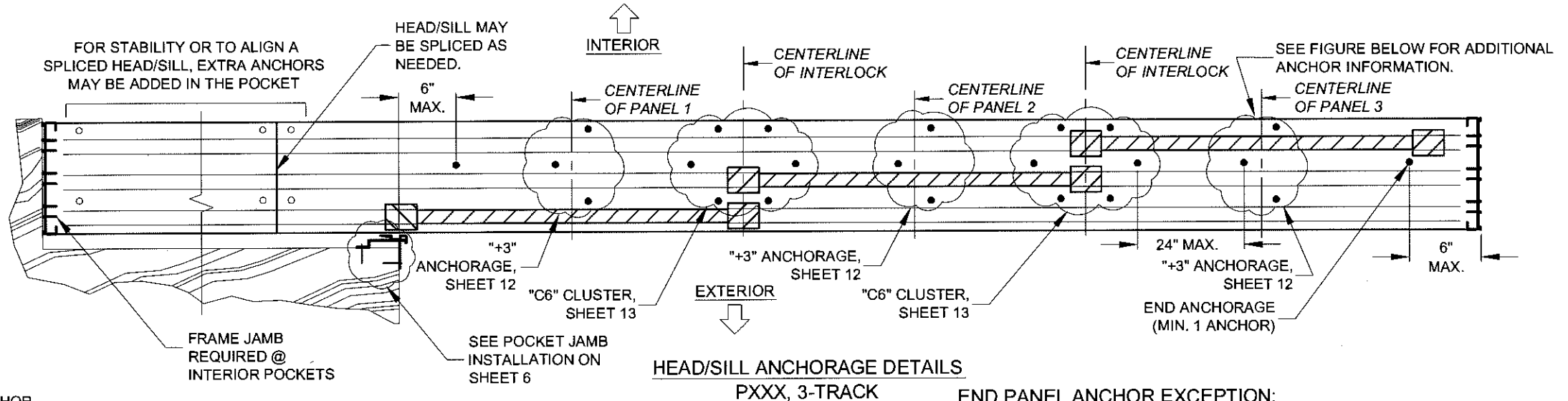
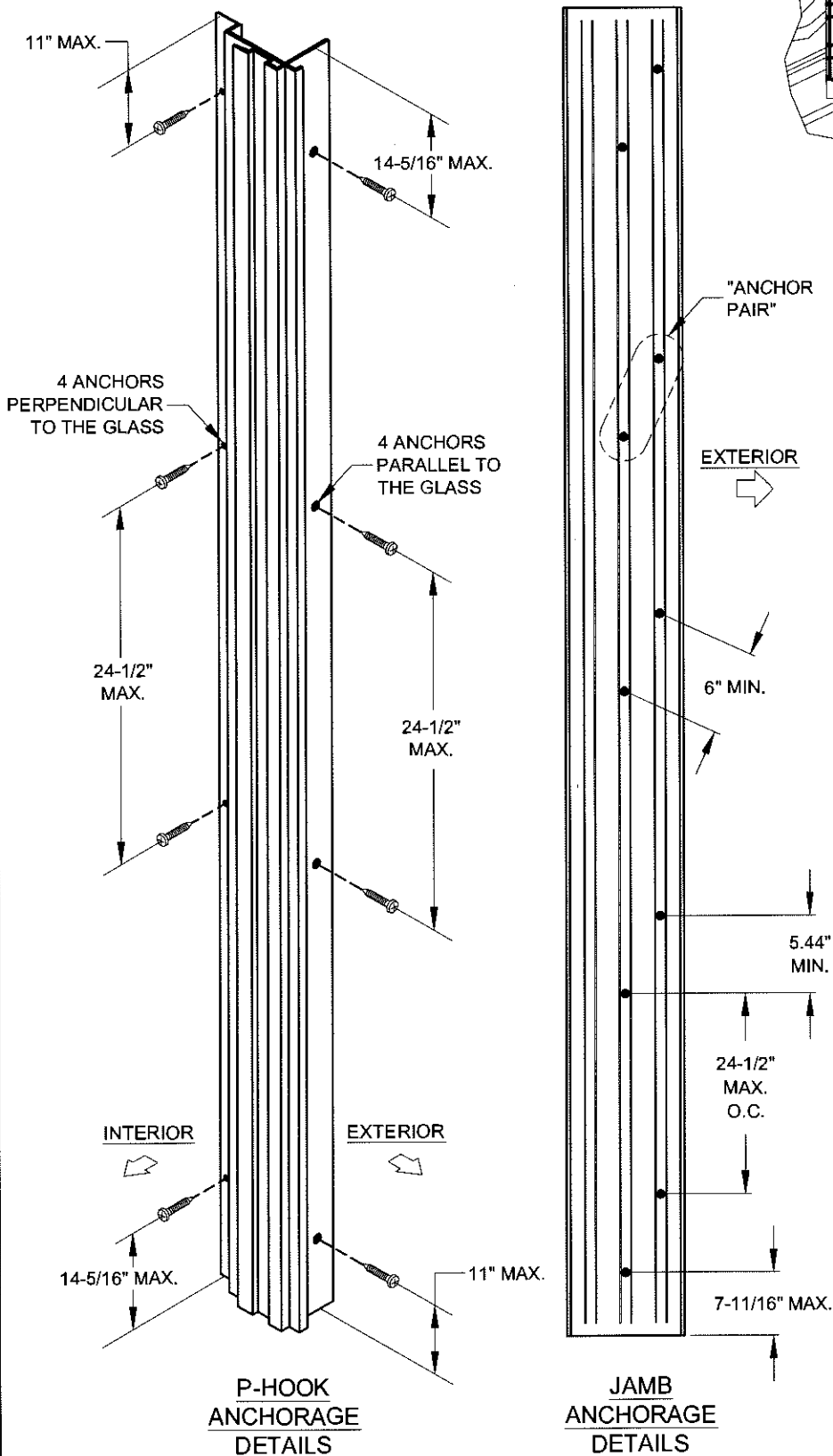
- 1) IF WATER INFILTRATION RESISTANCE IS REQUIRED, THE LESSER VALUE OF TABLE 3 AND TABLE C2 DETERMINES THE WATER LIMITED (+) DP.
- 2) THE 1-5/8" SILL RISER, #12, MAY ONLY BE USED WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIG 1. IF SO, +DP'S SHOWN IN TABLE 3 MAY BE USED.
- 3) SEE SILL RISER TYPES ON SHEET 4.
- 4) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
- 5) REFER TO ANCHOR NOTES, SHEET 1.
- 6) SEE SHEETS 12-15 FOR ANCHOR LOCATION & SPACING

Series	SGD-780	Scale	NTS	Sheet	8 OF 18	DWG No.	MD-780.0	Rev. No.	A
Title	ALUMINUM SLIDING GLASS DOOR NOA (LM)		Date	10/05/15					
Desc.	DP & ANCHOR QUANTITY TABLE		Drawn By	J ROSOWSKI					
Rev A	Date	Rev B	Date						

PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No. 16-0629.10  
 Expiration Date 08/02/17  
 A. Lynn Miller, P.E.  
 Me. of. Design Product Control

# EXAMPLE 1:

3-PANEL, 3 TRACK, STRAIGHT CONFIGURATION - PXXX,  
 INTERIOR MOUNT POCKET,  
 48" X 84" NOM. PANELS, LAMINATED, IG GLAZING,  
 ANCHOR GROUP 3 IN WOOD SUBSTRATE,  
 PROJECT DESIGN PRESSURE REQUIRED: +98.2/-108.6 PSF



POCKET BY OTHERS, SEE NOTE 6, SHEET 6

### USER INSTRUCTIONS:

1) KNOWING THE PRODUCT'S REQUIREMENTS, SCAN THROUGH TABLES 1-3 FOR A DESIGN PRESSURE THAT MEETS OR EXCEEDS THE REQUIREMENT OF +98.2/-108.6 AT A NOM. PANEL SIZE OF 48" X 84". FROM TABLE 3, SHEET 8, THE DESIGN PRESSURE IS +105/-115 WHICH EXCEEDS THE PROJECT DESIGN PRESSURE REQUIREMENTS.

FOR WOOD INSTALLATION USING ANY ANCHOR IN GROUP C (SEE TABLE A), TABLE 3 SHOWS ANCHOR REQUIREMENTS OF:

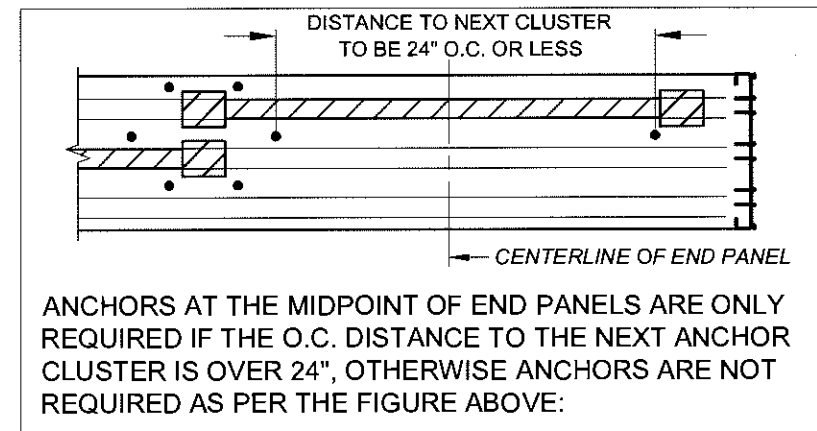
Head/Sill	C6+3
Jamb	10
P-hook	4+4

2) ANCHOR LOCATION DETAILS, (AS SHOWN ON THIS SHEET) CAN BE FOUND ON:  
 HEAD/SILL: SHEET 13 FOR THE "C6" CLUSTER ANCHORS AT INTERLOCK, SHEET 12 FOR THE INTERMEDIATE "+3" ANCHORS LOCATED AT THE CENTERLINE OF ALL 3 PANELS.  
 JAMB: 5 PAIRS OF ANCHORS = 10 TOTAL ANCHORS; REFER TO SHEET 12 FOR GENERAL LAYOUT.  
 P-HOOK: 4 ANCHORS PERPENDICULAR TO GLASS AND 4 ANCHORS PARALLEL TO GLASS; REFER TO SHEET 15 FOR GENERAL LAYOUT.

3) INSTALLATION DETAILS INTO WOOD CAN BE FOUND ON:  
 HEAD/SILL & JAMB: SHEETS 3 & 4  
 P-HOOK: SHEET 6

FOR PRODUCT REFERENCES, ALSO SEE:  
 A) SHEET 2 FOR ALLOWABLE CONFIGURATIONS AND EXACT LOCATIONS OF CROSS-SECTION DRAWINGS.  
 B) SHEET 11 FOR SPECIFIC GLAZING TYPES.  
 C) SHEET 16 FOR ALLOWABLE PANEL TYPES AND CALL NAMES.  
 D) SHEETS 4 & 17 FOR EXTRUSION CROSS-SECTION DRAWINGS.  
 E) SHEET 18 FOR A BILL OF MATERIALS.

### END PANEL ANCHOR EXCEPTION:



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Series	Rev A	Desc.	Title	Date
SGD-780		ALUMINUM SLIDING GLASS DOOR NOA (LM)	STRAIGHT DOOR EXAMPLE	10/05/15
Scale	NTS	Sheet	9 OF 18	DWG No.
				MD-780.0
Rev. No.	A			

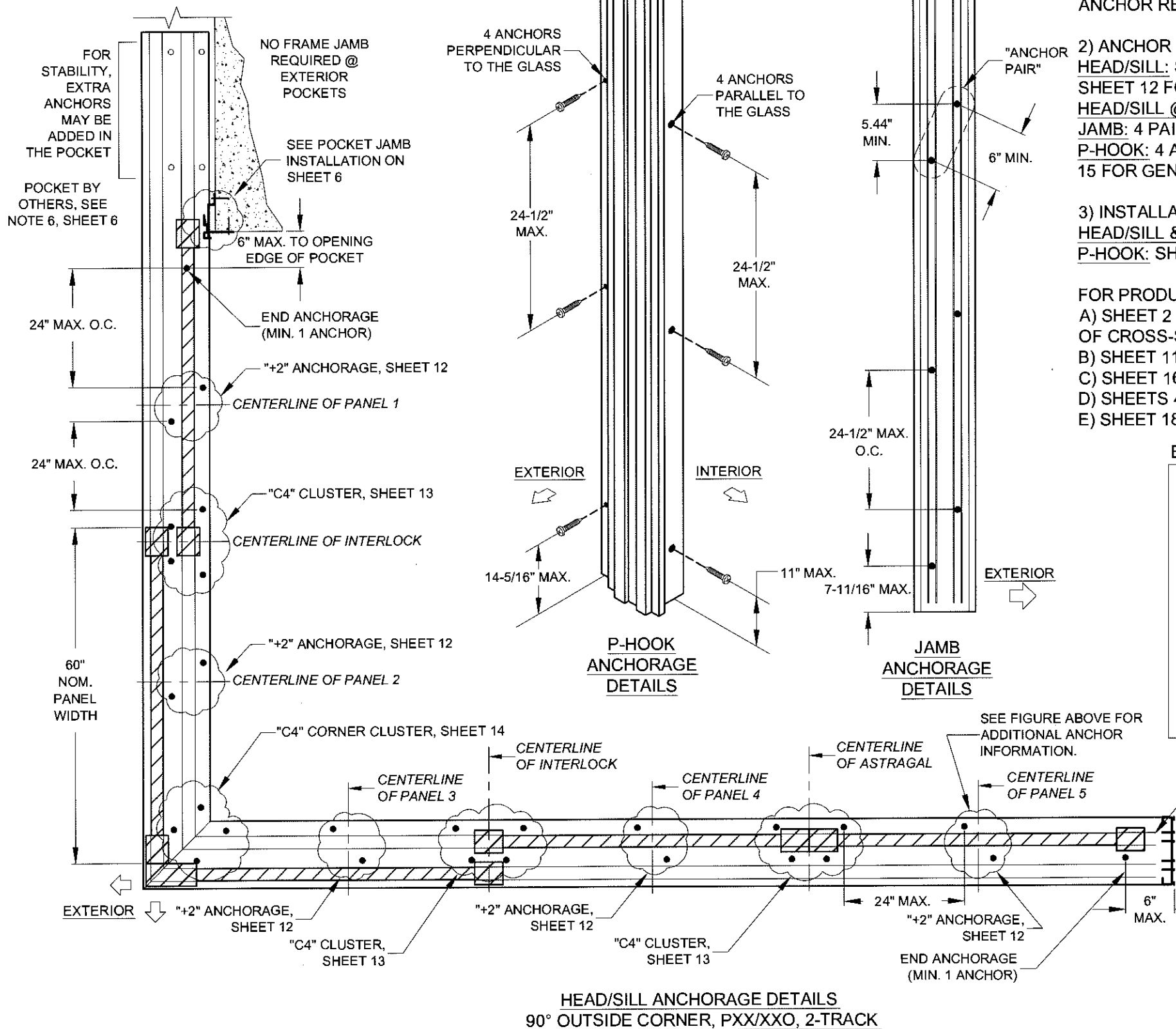
PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 16-0629-10  
 Expiration Date 02/02/17  
*[Signature]*  
 Michael Decker Product Control

Professional Engineer Seal  
 No. 58705  
 A. LYNN MILLER, P.E.  
 P.E.# 58705



**EXAMPLE 2:**

5-PANEL, 2 TRACK,  
 90° OUTSIDE CORNER - PXX/XXO,  
 EXTERIOR MOUNT POCKET,  
 60" X 84" NOM. PANELS, LAMINATED GLAZING  
 ANCHOR GROUP 1 IN CONCRETE SUBSTRATE  
 PROJECT DESIGN PRESSURE REQUIRED: +68.4/-77.1 PSF



**USER INSTRUCTIONS:**

1) KNOWING THE PRODUCT REQUIREMENTS, SCAN THROUGH TABLES 1-3 FOR A DESIGN PRESSURE THAT MEETS OR EXCEEDS THE REQUIREMENT OF +68.4/-77.1 AT A NOM. PANEL SIZE OF 60" X 84". FROM TABLE 1, SHEET 7, THE DESIGN PRESSURE IS +80/-80 WHICH EXCEEDS THE PROJECT DESIGN PRESSURE REQUIREMENTS.

FOR CONCRETE INSTALLATION USING ANY ANCHOR IN GROUP A (SEE TABLE A), TABLE 1 SHOWS ANCHOR REQUIREMENTS OF:

Head/Sill	C4+2
Jamb	8
P-hook	4+4

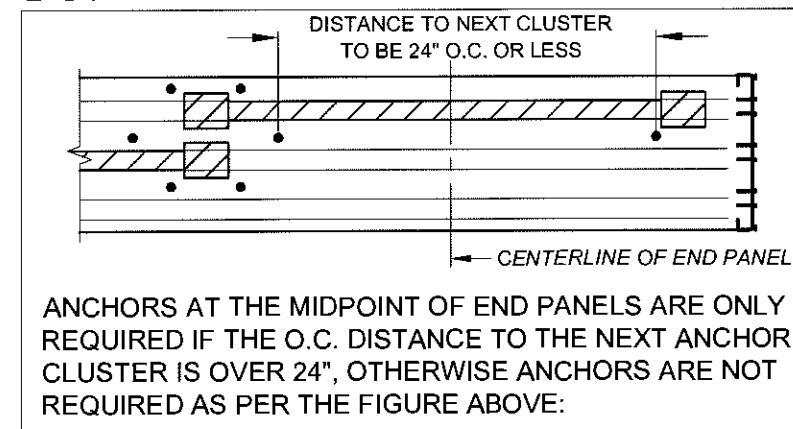
2) ANCHOR LOCATION DETAILS, (AS SHOWN ON THIS SHEET) CAN BE FOUND ON:  
 HEAD/SILL: SHEET 13 FOR THE "C4" CLUSTER ANCHORS LOCATED AT THE ASTRAGAL AND INTERLOCKS, SHEET 12 FOR THE INTERMEDIATE "+2 ANCHORS.  
 HEAD/SILL @ CORNER: SHEET 14 FOR THE "C4" CLUSTER ANCHORS @ THE 90° CORNER.  
 JAMB: 4 PAIRS OF ANCHORS = 8 TOTAL ANCHORS; REFER TO SHEET 12 FOR GENERAL LAYOUT.  
 P-HOOK: 4 ANCHORS PERPENDICULAR TO GLASS AND 4 ANCHORS PARALLEL TO GLASS; REFER TO SHEET 15 FOR GENERAL LAYOUT.

3) INSTALLATION DETAILS INTO CONCRETE CAN BE FOUND ON:  
 HEAD/SILL & JAMB: SHEETS 3 & 4  
 P-HOOK: SHEET 6

FOR PRODUCT REFERENCES, ALSO SEE:

- A) SHEET 2 FOR ALLOWABLE CONFIGURATIONS AND EXACT LOCATIONS OF CROSS-SECTION DRAWINGS.
- B) SHEET 11 FOR SPECIFIC GLAZING TYPE.
- C) SHEET 16 FOR ALLOWABLE PANEL TYPES AND CALL NAMES.
- D) SHEETS 4 & 17 FOR EXTRUSION CROSS-SECTION DRAWINGS.
- E) SHEET 18 FOR A BILL OF MATERIALS.

**END PANEL ANCHOR EXCEPTION:**

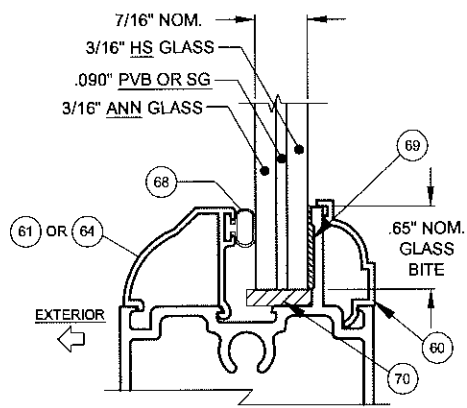


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 as complying with the Florida  
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 Acceptance No. 16-0629-10  
 Expiration Date 02/02/17  
 Michael Deady Product Control

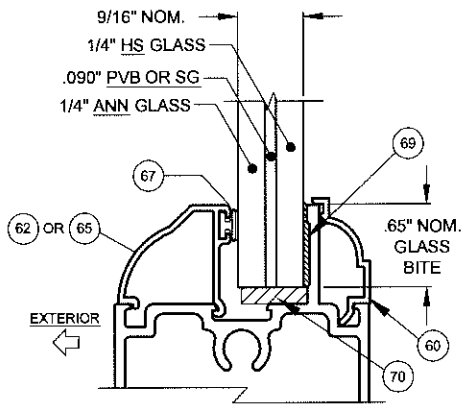
Professional Engineer Seal for A. Lynn Miller, P.E. #58705, dated 8/8/16.

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 (941)-480-1600

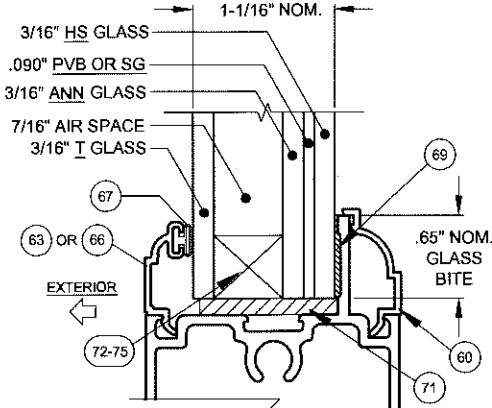
Series	SGD-780	Scale	NTS	Sheet	10 OF 18	DWG No.	MD-780.0	Rev. No.	A
Title	ALUMINUM SLIDING GLASS DOOR NOA (LM)		Date	10/05/15					
Desc.	CORNER DOOR EXAMPLE		Drawn By	J ROSOWSKI					
Rev 1	Date	Rev 2	Date						



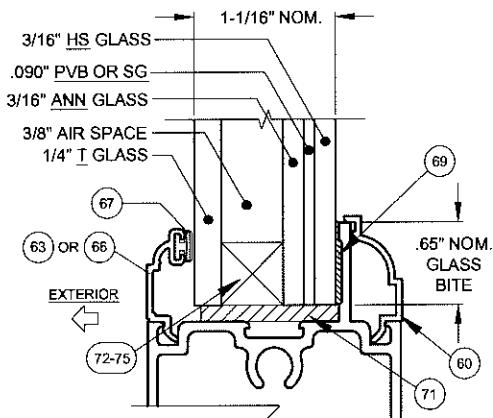
GLASS TYPE 1 (WITH PVB)  
GLASS TYPE 5 (WITH SG)



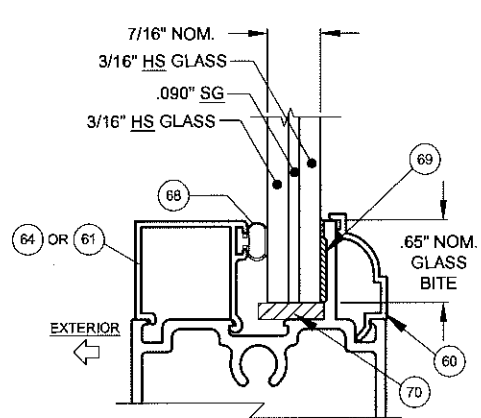
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GLASS TYPE 6 (WITH SG)



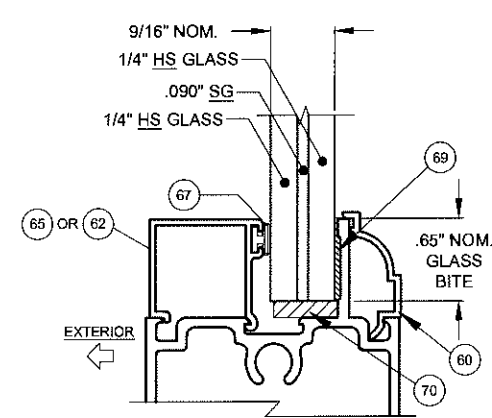
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GLASS TYPE 9 (WITH SG)



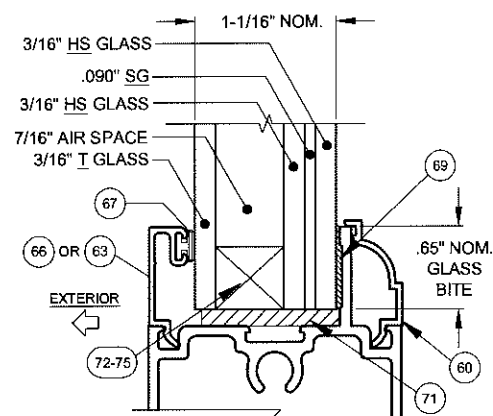
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GLASS TYPE 10 (WITH SG)



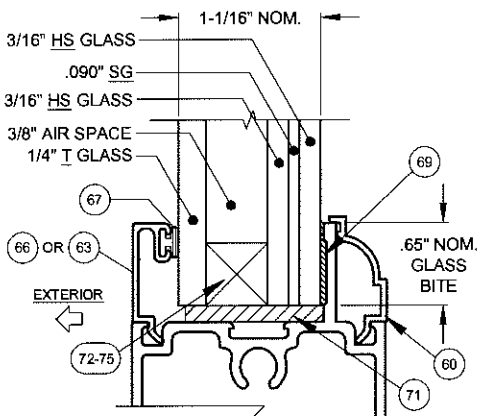
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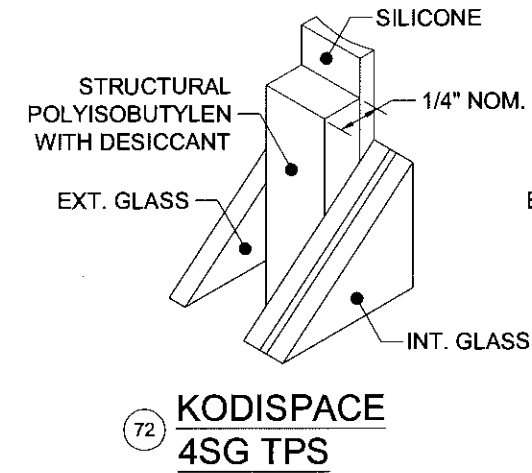
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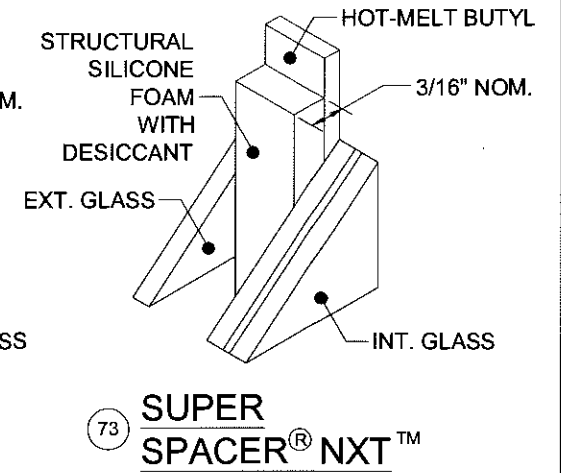
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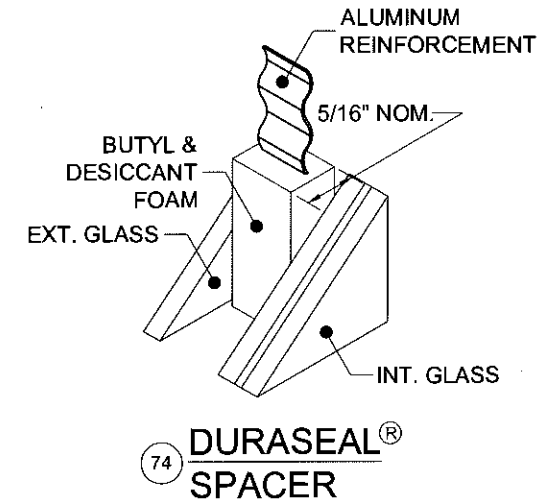
GLASS TYPE 12



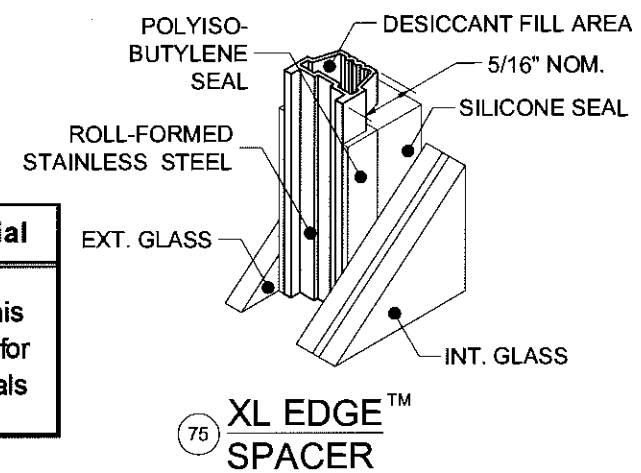
72 **KODISPACE**  
**4SG TPS**



73 **SUPER**  
**SPACER<sup>®</sup> NXT<sup>™</sup>**



74 **DURASEAL<sup>®</sup>**  
**SPACER**



75 **XL EDGE<sup>™</sup>**  
**SPACER**

"ANN" = ANNEALED  
"HS" = HEAT STRENGTHENED  
"T" = TEMPERED  
"PVB" = .090" BUTACITE<sup>®</sup> PVB  
INTERLAYER BY KURARAY  
AMERICA, INC.  
"SG" = .090" SENTRYGLAS<sup>®</sup>  
INTERLAYER BY KURARAY  
AMERICA, INC.

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Part #	Description	Material
72	Kommerling 4SG TPS Spacer System	See this Sheet for Materials
73	Quanex Super Spacer nXT with Hot Melt Butyl	
74	Quanex Duraseal Spacer	
75	Cardinal XL Edge Spacer	

REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970

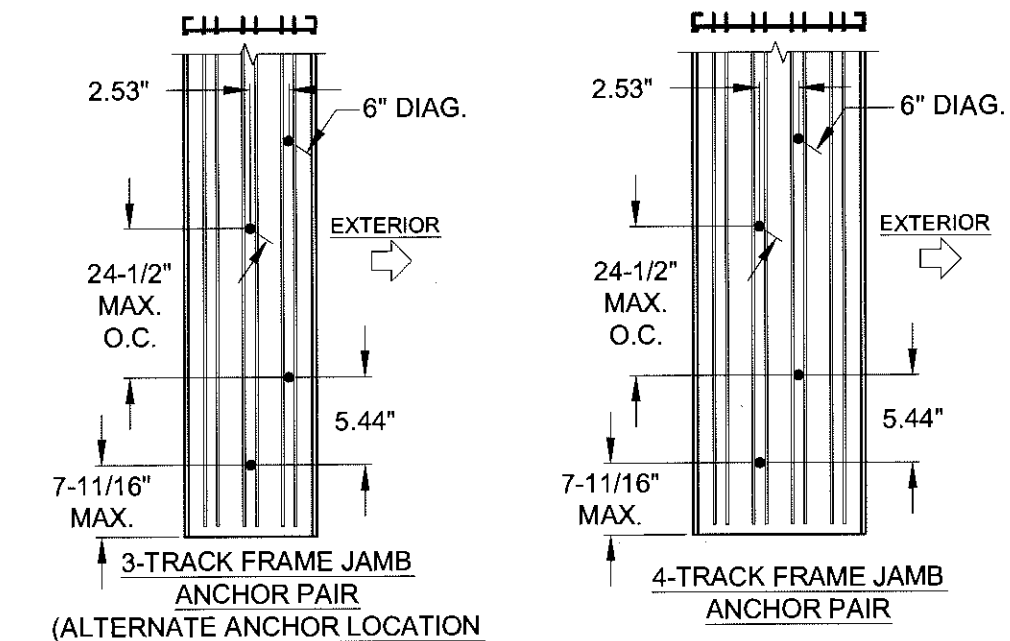
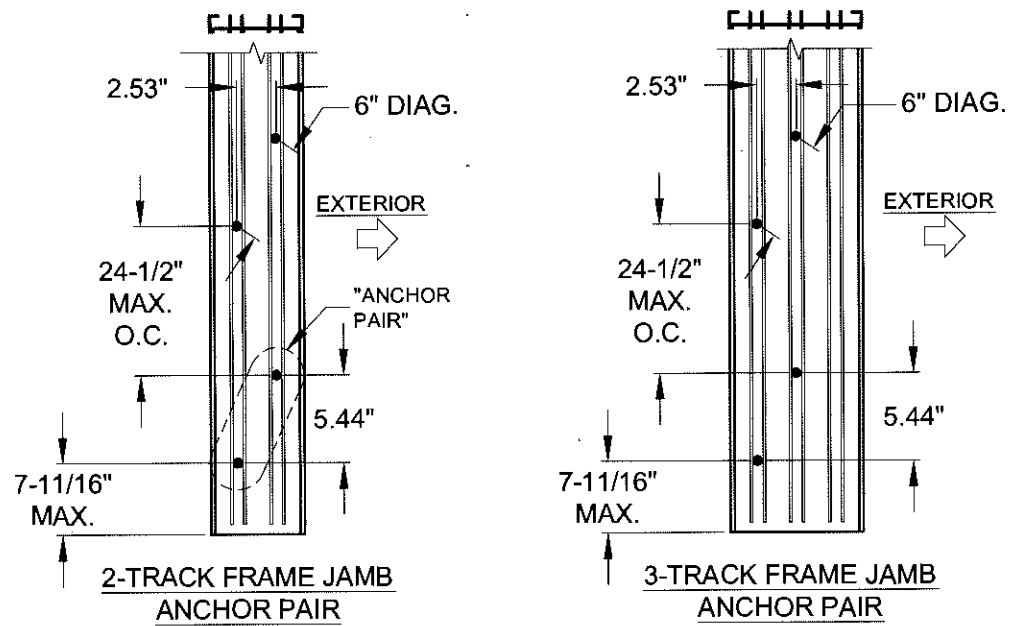
**PGT**  
CERT. OF AUTH. #29296  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941)-480-1600

Series	SGD-780	Scale	NTS	Sheet	11 OF 18	DWG No.	MD-780.0	Rev. No.	A
Title	ALUMINUM SLIDING GLASS DOOR NOA (LM)								
Desc.	GLAZING & SPACER DETAILS							Drawn By	J ROSOWSKI
Rev A	ADDED SPACERS - JR							Rev A Date	05/15/16

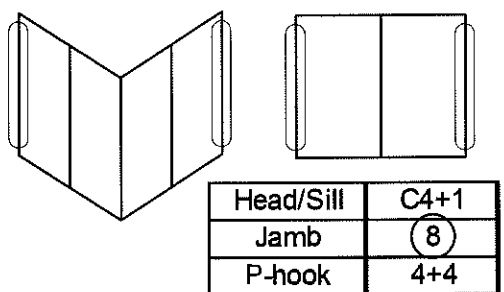
*[Signature]*  
6/18/16  
A. LYNN MILLER, P.E.  
P.E.# 58705



# JAMB ANCHOR LAYOUT FOR ALL DOORS:

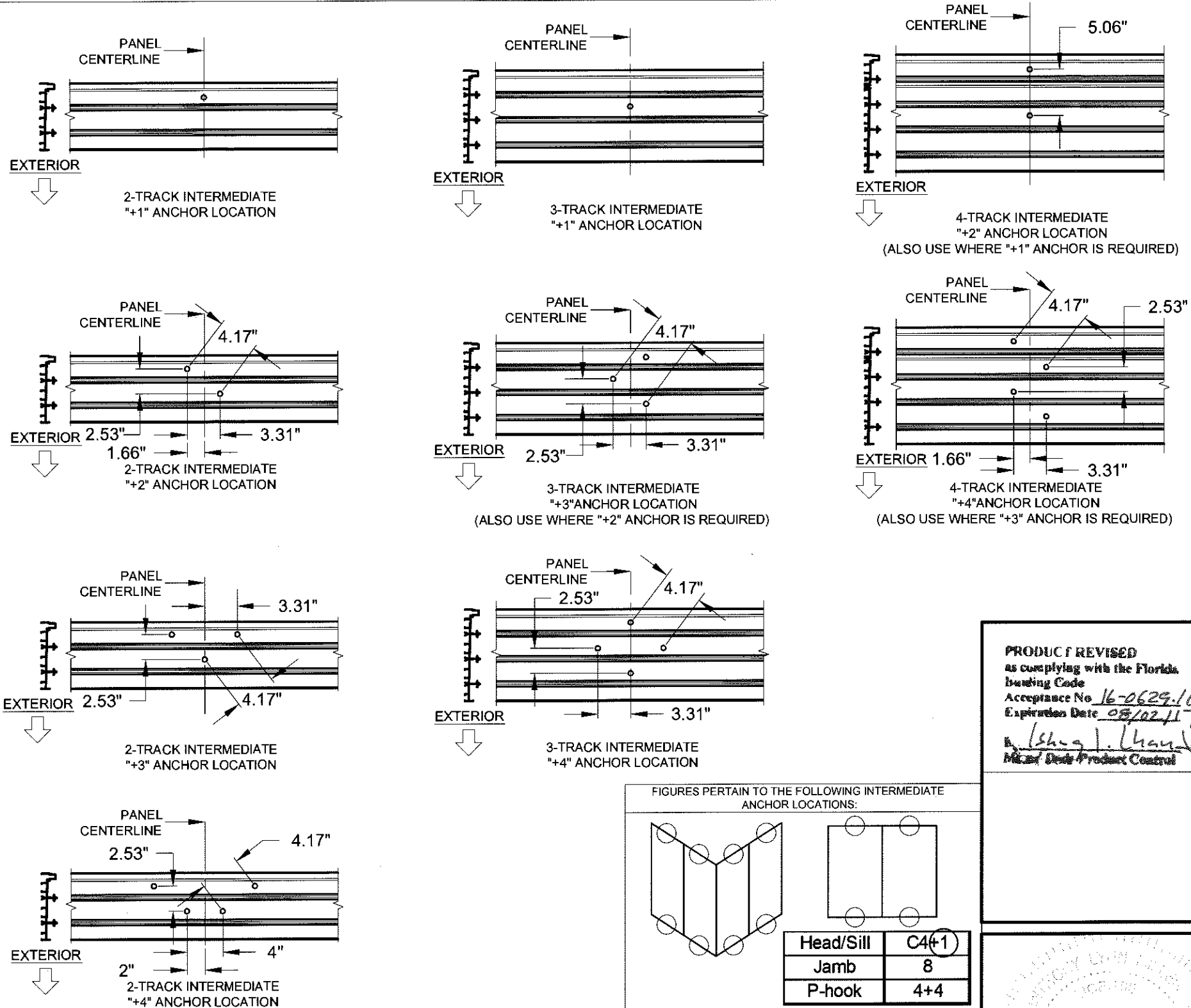


FIGURES PERTAIN TO THE FOLLOWING JAMB ANCHOR LOCATIONS:

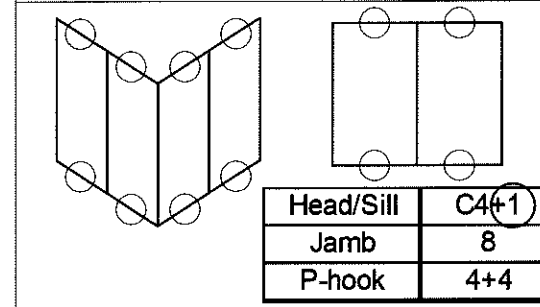


- NOTES:**
- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED, UNLESS OTHERWISE NOTED.
  - 2) FOR 3-TRACK JAMBS, ANCHORS MAY BE INSTALLED EITHER IN THE EXT. OR INT. TRACK.
  - 3) MIN. OF 8 ANCHORS IN JAMB (4 PAIRS).

# HEAD/SILL "+" INTERMEDIATE ANCHORS LAYOUT FOR ALL DOORS:



FIGURES PERTAIN TO THE FOLLOWING INTERMEDIATE ANCHOR LOCATIONS:



- NOTES:**
- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
  - 2) SILL SHOWN, HEAD SIMILAR.

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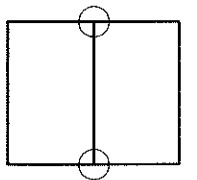
Series	SGD-780	Scale	NTS	Sheet	12 OF 18	DWG No.	MD-780.0	Rev. No.	A
Title	ALUMINUM SLIDING GLASS DOOR NOA (LM)		Date	10/05/15					
Desc.	ANCHOR LAYOUT		Drawn By	J ROSOWSKI					
Rev A	Date	Rev B	Date						

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 16-0629-10  
 Expiration Date 08/02/17  
 S. Shugart, Manager  
 Mfg. Dept. Product Control

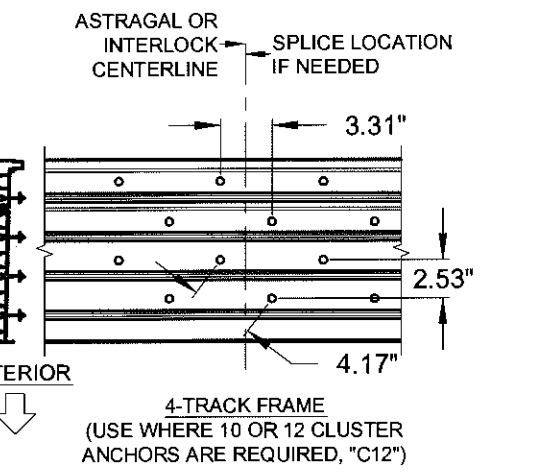
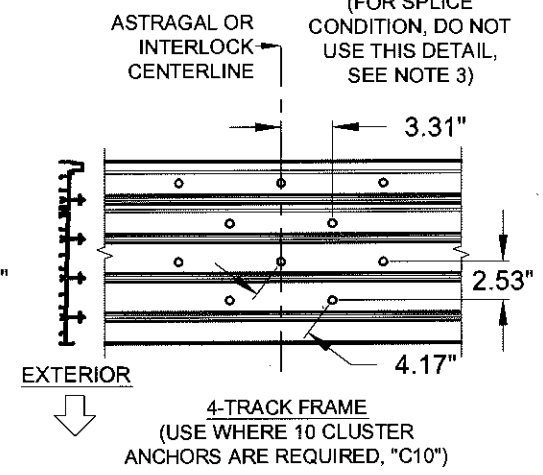
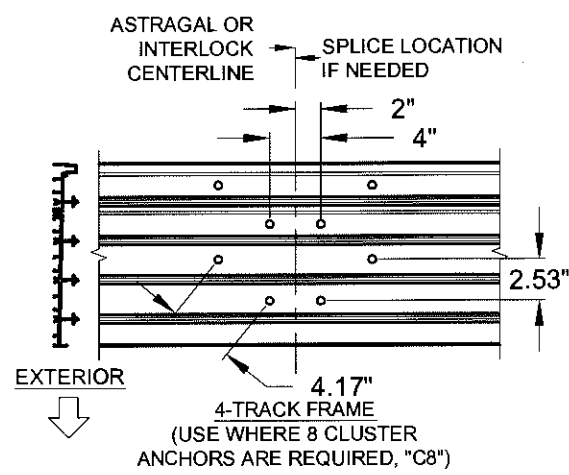
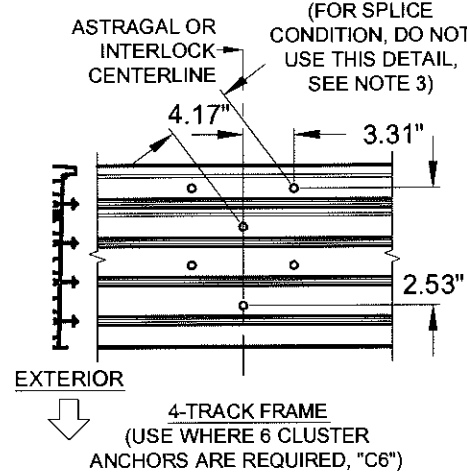
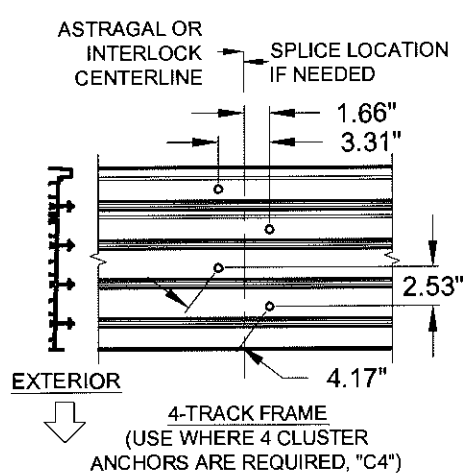
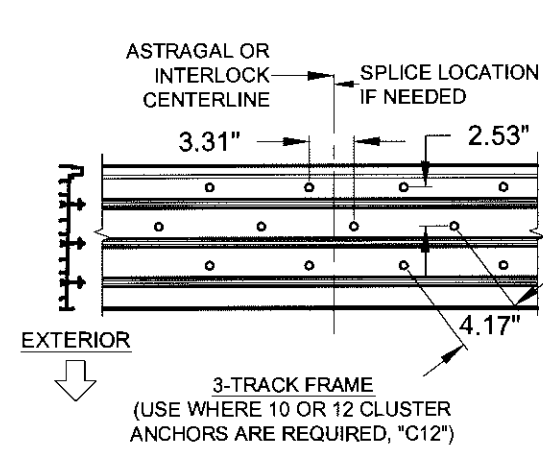
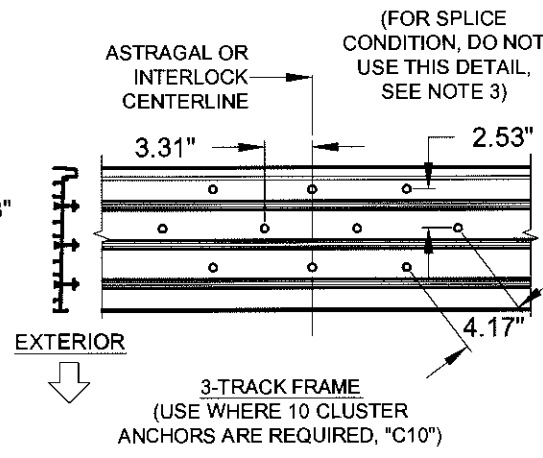
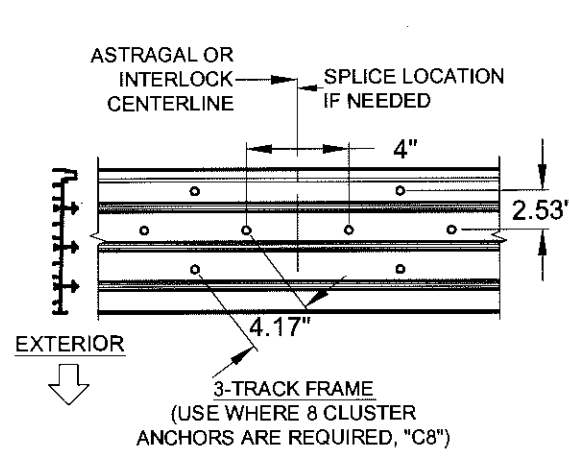
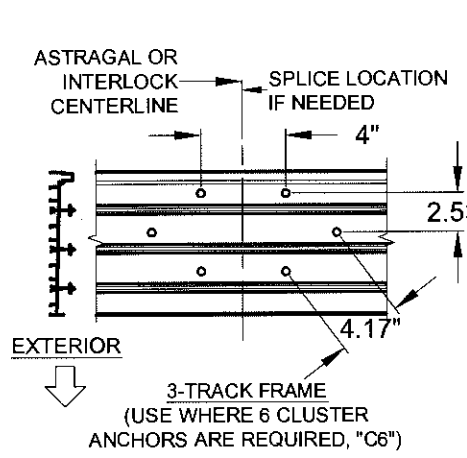
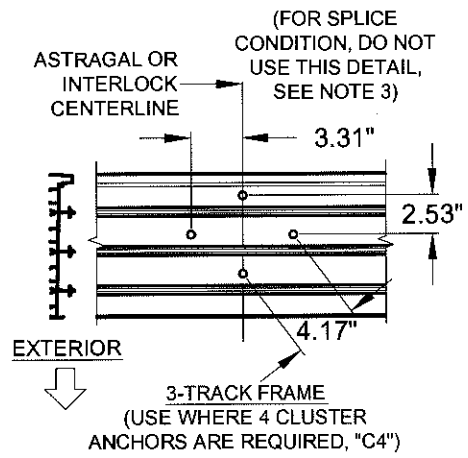
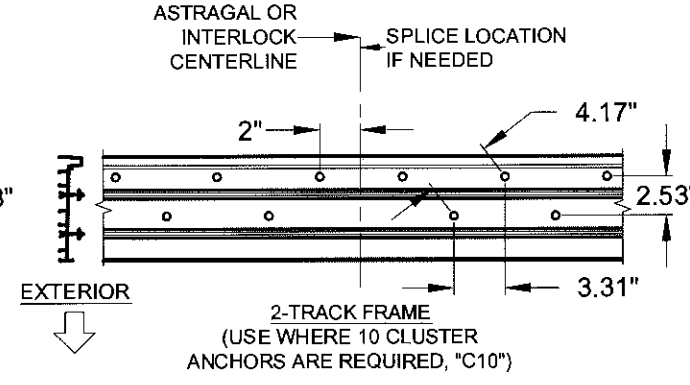
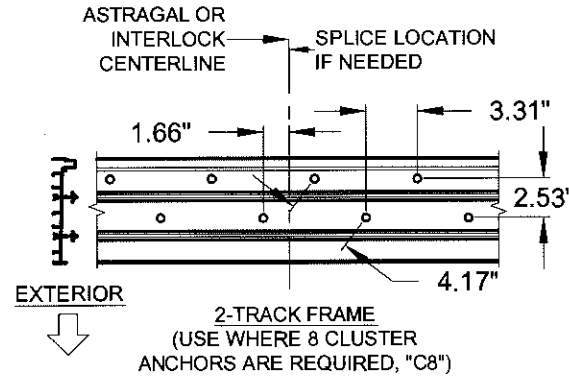
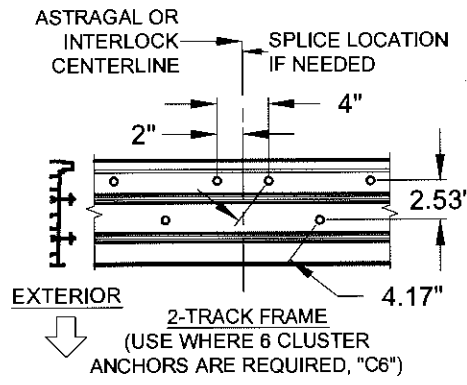
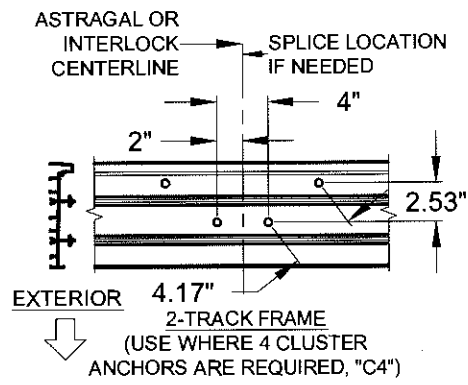
A. LYNN MILLER, P.E.  
 P.E.# 58705

# HEAD/SILL CLUSTER ANCHORS LAYOUT FOR STRAIGHT DOORS:

FIGURES PERTAIN TO THE FOLLOWING INTERLOCK/ASTRAGAL ANCHOR LOCATIONS:



Head/Sill	(C4)+1
Jamb	8
P-hook	4+4



- NOTES:  
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.  
2) SILL SHOWN, HEAD SIMILAR.  
3) IF A SPLICE IS NOT SHOWN AT A GIVEN CLUSTER QUANTITY, USE THE NEXT HIGHER CLUSTER QUANTITY.

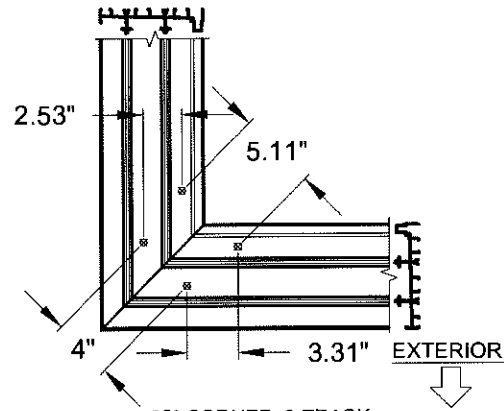
**PGT**  
CERT. OF AUTH. #29296  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941)-480-1600

Series	SGD-780	Scale	NTS	Sheet	13 OF 18	DWG No.	MD-780.0	Rev. No.	A
Title	ALUMINUM SLIDING GLASS DOOR NOA (LM)		Date	10/05/15					
Desc.	ANCHOR LAYOUT		Drawn By	J ROSOWSKI					
Rev A	Date	Rev B	Date						

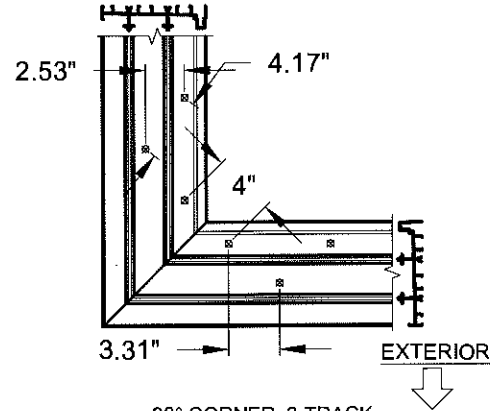
PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 16-0629-10  
Expiration Date 02/02/17  
*A. Lynn Miller*  
Product Control

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
DATE 08/28/08 BY 60322  
A. Lynn Miller, P.E.  
P.E.# 58705

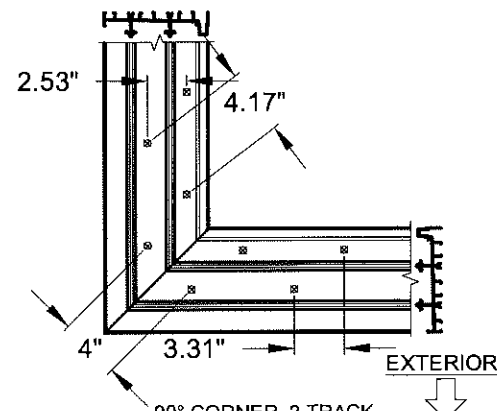
# HEAD/SILL 90° CORNER CLUSTER ANCHORS LAYOUT:



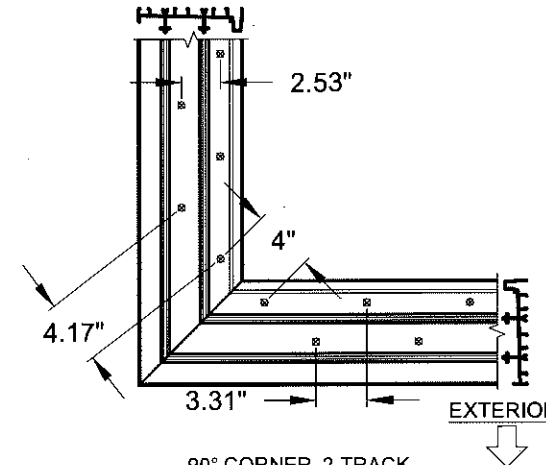
90° CORNER, 2-TRACK  
(USE WHERE 4 CLUSTER ANCHORS ARE REQUIRED, "C4")



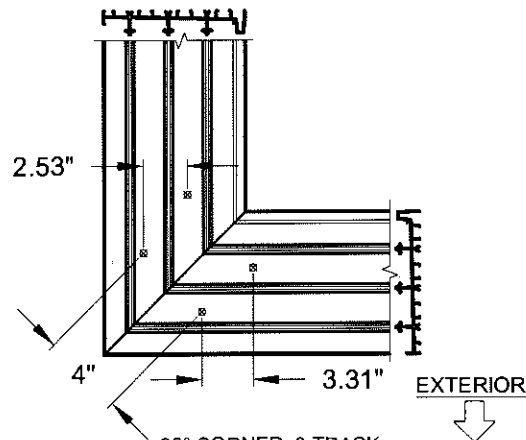
90° CORNER, 2-TRACK  
(USE WHERE 6 CLUSTER ANCHORS ARE REQUIRED, "C6")



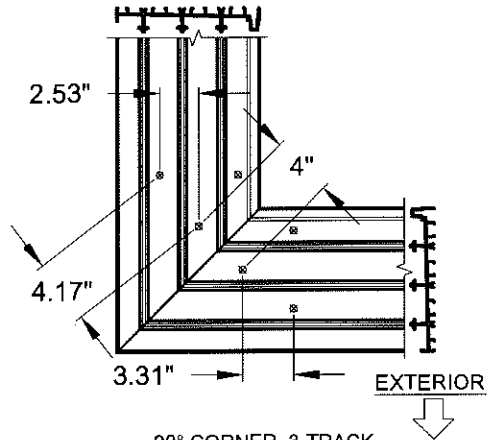
90° CORNER, 2-TRACK  
(USE WHERE 8 CLUSTER ANCHORS ARE REQUIRED, "C8")



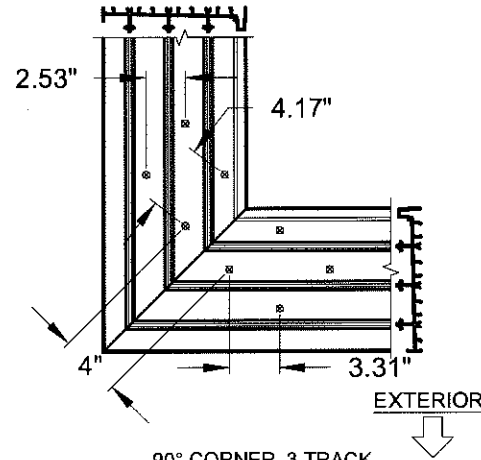
90° CORNER, 2-TRACK  
(USE WHERE 10 CLUSTER ANCHORS ARE REQUIRED, "C10")



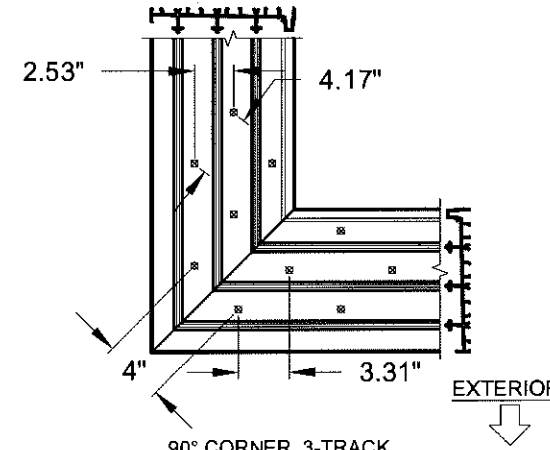
90° CORNER, 3-TRACK  
(USE WHERE 4 CLUSTER ANCHORS ARE REQUIRED, "C4")



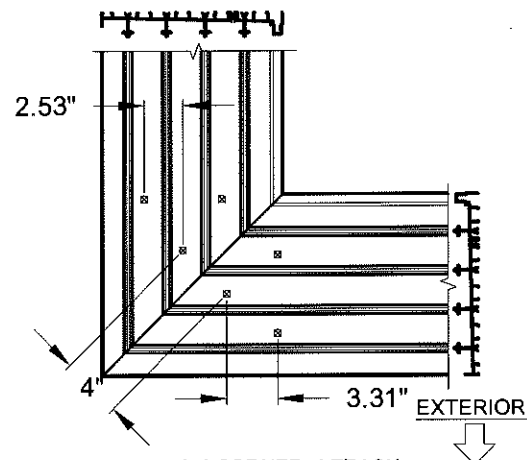
90° CORNER, 3-TRACK  
(USE WHERE 6 CLUSTER ANCHORS ARE REQUIRED, "C6")



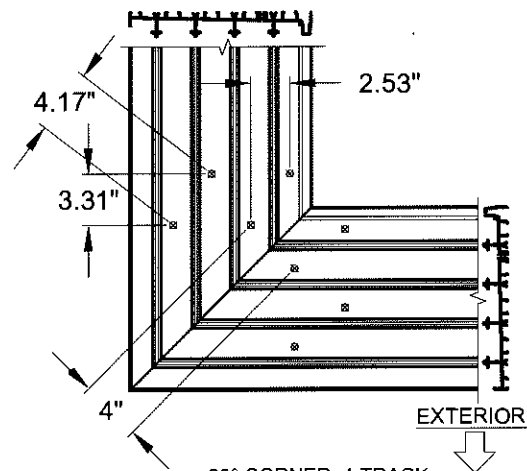
90° CORNER, 3-TRACK  
(USE WHERE 8 CLUSTER ANCHORS ARE REQUIRED, "C8")



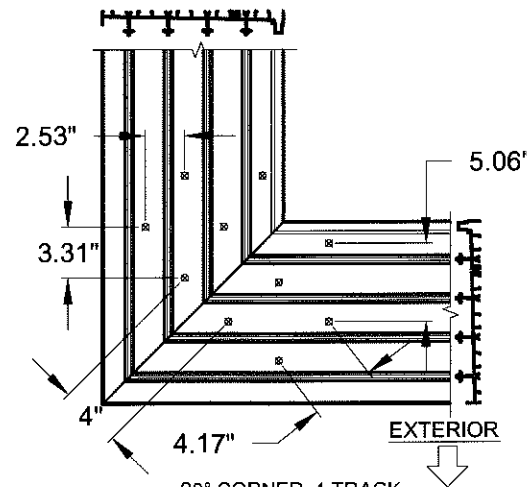
90° CORNER, 3-TRACK  
(USE WHERE 10 CLUSTER ANCHORS ARE REQUIRED, "C10")



90° CORNER, 4-TRACK  
(USE WHERE 4 OR 6 CLUSTER ANCHORS ARE REQUIRED, "C6")

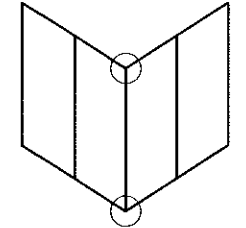


90° CORNER, 4-TRACK  
(USE WHERE 8 CLUSTER ANCHORS ARE REQUIRED, "C8")



90° CORNER, 4-TRACK  
(USE WHERE 10 CLUSTER ANCHORS ARE REQUIRED, "C10")

FIGURES PERTAIN TO THE FOLLOWING 90° CORNER ANCHOR LOCATIONS:

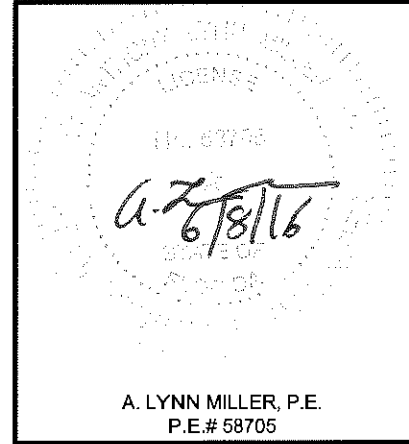


Head/Sill	C4-1
Jamb	8
P-hook	4+4

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 16-0629.10  
Expiration Date 08/02/17  
*A. Lynn Miller*  
Miami Door Product Control

**NOTES:**

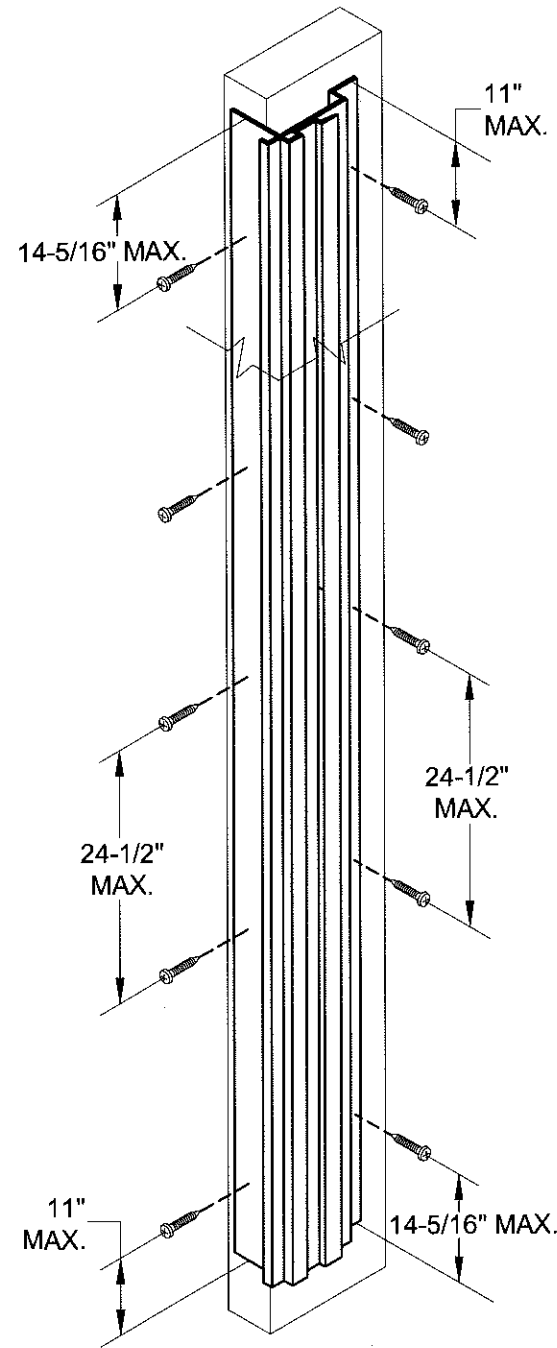
- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
- 2) DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE SIMILAR FOR INSIDE AND OUTSIDE CORNER CONFIGURATIONS.
- 3) SILL SHOWN, HEAD SIMILAR.



**PGT**  
CERT. OF AUTH. #29296  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941)-480-1600

Series	SGD-780	Scale	NTS	Sheet	14 OF 18	DWG No.	MD-780.0	Rev. No.	A
Title	ALUMINUM SLIDING GLASS DOOR NOA (LM)								
Desc.	ANCHOR LAYOUT								
Drawn By	J ROSOWSKI								
Rev 1 Date	10/05/15								
Rev 2 Date									

# P-HOOK ANCHORS LAYOUT FOR ALL DOORS:

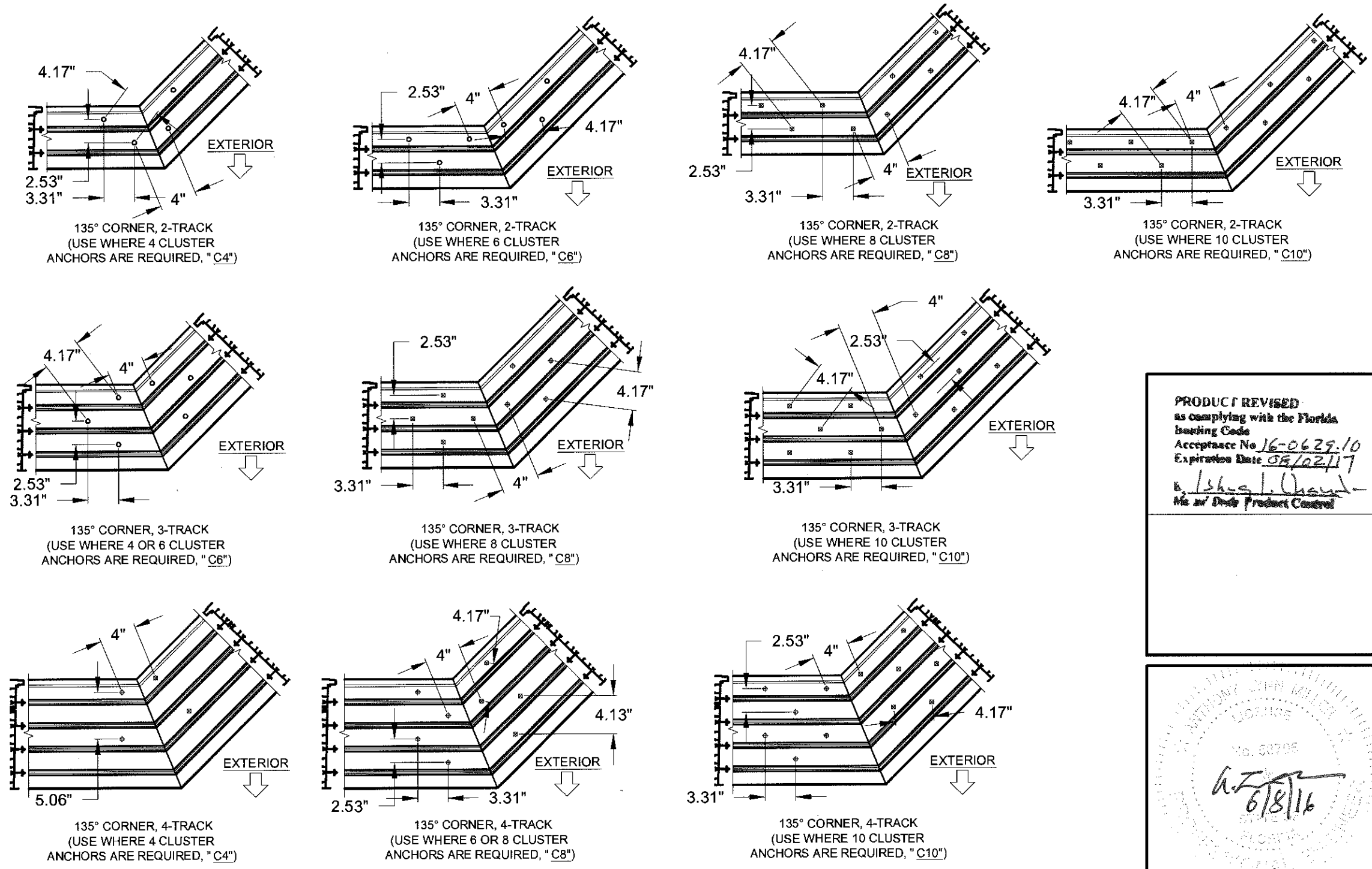


**NOTES:**  
 1) SEE TABLES 1-3 FOR EXACT QUANTITY OF ANCHORS REQUIRED IN THE P-HOOK.

FIGURE PERTAINS TO THE FOLLOWING POCKET JAMB (P-HOOK) ANCHOR LOCATIONS:

POCKET	
Head/Sill	C4+1
Jamb	8
P-hook	5+5

# HEAD/SILL 135° CORNER CLUSTER ANCHORS LAYOUT:



FIGURES PERTAIN TO THE FOLLOWING 135° CORNER ANCHOR LOCATIONS:

Head/Sill	C4+1
Jamb	8
P-hook	4+4

**NOTES:**  
 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.  
 2) DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE SIMILAR FOR INSIDE AND OUTSIDE CORNER CONFIGURATIONS.  
 3) SILL SHOWN, HEAD SIMILAR.

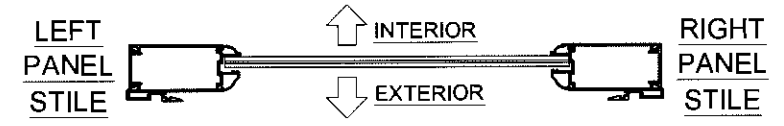
**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No 16-0629.10  
 Expiration Date 08/02/17  
 A. Lynn Miller, P.E.  
 No. 58705

**Professional Engineer Seal**  
 A. LYNN MILLER, P.E.  
 P.E.# 58705  
 No. 58705  
 6/8/16

**PGT**  
 CERT. OF AUTH. #29296  
 1070 TECHNOLOGY DRIVE  
 N. VENICE, FL 34275  
 (941)-480-1600

Series	SGD-780	Scale	NTS	Sheet	15 OF 18	DWG No.	MD-780.0	Rev. No.	A
Title	ALUMINUM SLIDING GLASS DOOR NOA (LM)		Date	10/05/15					
Desc.	ANCHOR LAYOUT		Drawn By	J ROSOWSKI					
Rev 1	Date	Rev 2	Date						

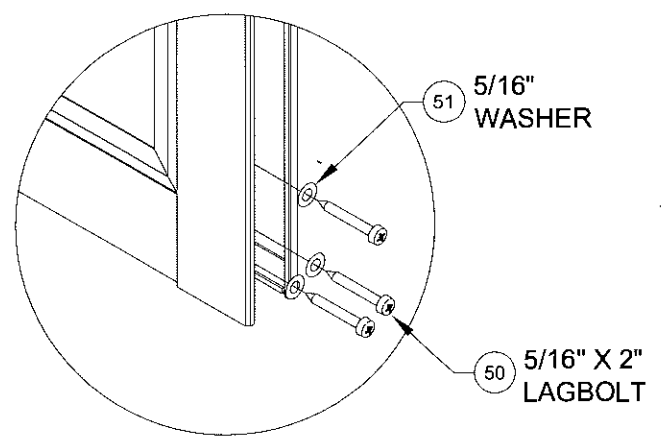
PANEL TYPES	SINGLE INTERLOCK OUT	SINGLE INTERLOCK IN	DOUBLE INTERLOCK	FIXED STILE	LOCKSTILE W/ HANDLE	ASTRAGAL BOX IN	ASTRAGAL BOX IN W/ HANDLE	ASTRAGAL BOX OUT	ASTRAGAL BOX OUT W/ HANDLE	INSIDE 90° ASTRAGAL RECEIVER W/ HANDLE	OUTSIDE 90° ASTRAGAL RECEIVER	OUTSIDE 90° ASTRAGAL RECEIVER W/ HANDLE	INSIDE 90° CORNER LOCKSTILE W/ HANDLE	OUTSIDE 90° CORNER LOCKSTILE W/ HANDLE	OUTSIDE 135° ASTRAGAL RECEIVER	INSIDE 135° ASTRAGAL RECEIVER	OUTSIDE 135° ASTRAGAL RECEIVER W/ HANDLE	INSIDE 135° ASTRAGAL RECEIVER W/ HANDLE
SINGLE INTERLOCK OUT																		
	<b>E</b>	<b>F</b>		<b>PP</b>	<b>K</b>		<b>L</b> <small>(BOX IN)</small>		<b>L</b> <small>(BOX OUT)</small>	<b>TA</b>		<b>TC</b>	<b>TR</b>	<b>TQ</b>			<b>TV</b>	<b>TW</b>
SINGLE INTERLOCK IN				<b>P</b>	<b>A</b>		<b>C</b> <small>(BOX IN)</small>		<b>C</b> <small>(BOX OUT)</small>	<b>SA</b>		<b>SC</b>	<b>IC</b>	<b>SQ</b>			<b>SV</b>	<b>SW</b>
DOUBLE INTERLOCK			<b>I</b>	<b>YR</b>	<b>GR</b>													
FIXED STILE		<b>RR</b>	<b>R</b>	<b>Y</b>			<b>S</b> <small>(BOX IN)</small>		<b>S</b> <small>(BOX OUT)</small>	<b>FD</b>	<b>FC</b>				<b>FV</b>	<b>FW</b>		
LOCKSTILE W/ HANDLE		<b>D</b>	<b>M</b>	<b>G</b>			<b>J</b> <small>(BOX IN)</small>		<b>J</b> <small>(BOX OUT)</small>									
ASTRAGAL BOX IN				<b>T</b> <small>(BOX IN)</small>	<b>U</b> <small>(BOX IN)</small>													
ASTRAGAL BOX IN W/ HANDLE			<b>N</b> <small>(BOX IN)</small>															
ASTRAGAL BOX OUT				<b>T</b> <small>(BOX OUT)</small>	<b>U</b> <small>(BOX OUT)</small>													
ASTRAGAL BOX OUT W/ HANDLE		<b>LR</b> <small>(BOX OUT)</small>		<b>WR</b> <small>(BOX OUT)</small>														
INS. 90° ASTRAGAL RECEIVER W/ HANDLE		<b>AT</b>	<b>AS</b>	<b>DF</b>														
OUTSIDE 90° ASTRAGAL RECEIVER				<b>CF</b>														
OUT. 90° ASTRAGAL RECEIVER W/ HANDLE		<b>CT</b>	<b>CS</b>															
INS. 90° CORNER LOCKSTILE W/ HANDLE		<b>RT</b>	<b>CI</b>															
OUT. 90° CORNER LOCKSTILE W/ HANDLE		<b>QT</b>	<b>QS</b>															
OUTSIDE 135° ASTRAGAL RECEIVER				<b>VF</b>														
INSIDE 135° ASTRAGAL RECEIVER				<b>WF</b>														
OUTSIDE 135° AST. RECEIVER W/ HANDLE		<b>VT</b>	<b>VS</b>															
INSIDE 135° AST. RECEIVER W/ HANDLE		<b>WT</b>	<b>WS</b>															



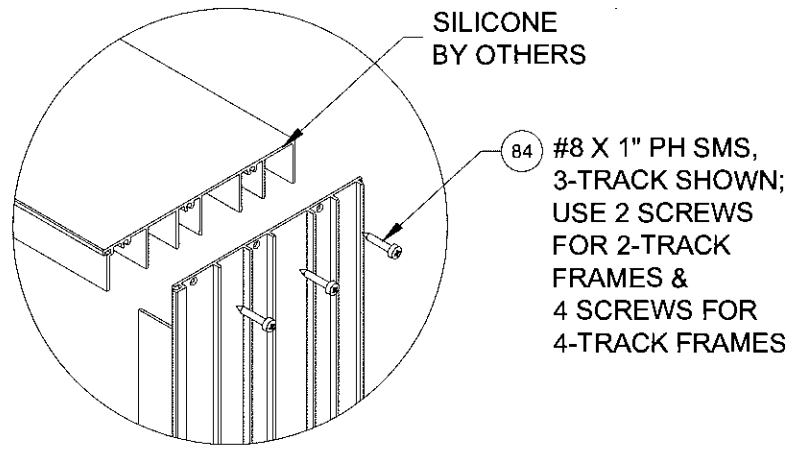
PANEL "E" SHOWN. SEE TABLE FOR OTHER PANEL TYPES AND APPLICABLE STILE/ASTRAGAL REQUIREMENTS.

**PANEL NOTES:**

1. SEE DP/ANCHOR TABLES 1-3, SHEETS 7-8 FOR PANEL SIZES & DESIGN PRESSURE.
2. PANEL TYPES NOT SHOWN ARE NOT REQUIRED FOR ANY CONFIGURATIONS AND ARE NOT AVAILABLE.
3. MAXIMUM NOMINAL PANEL WIDTH FOR ALL PANEL CONFIGURATIONS IS 60".



**PANEL CORNER DETAIL**  
SHOWN WITHOUT STILE COVER



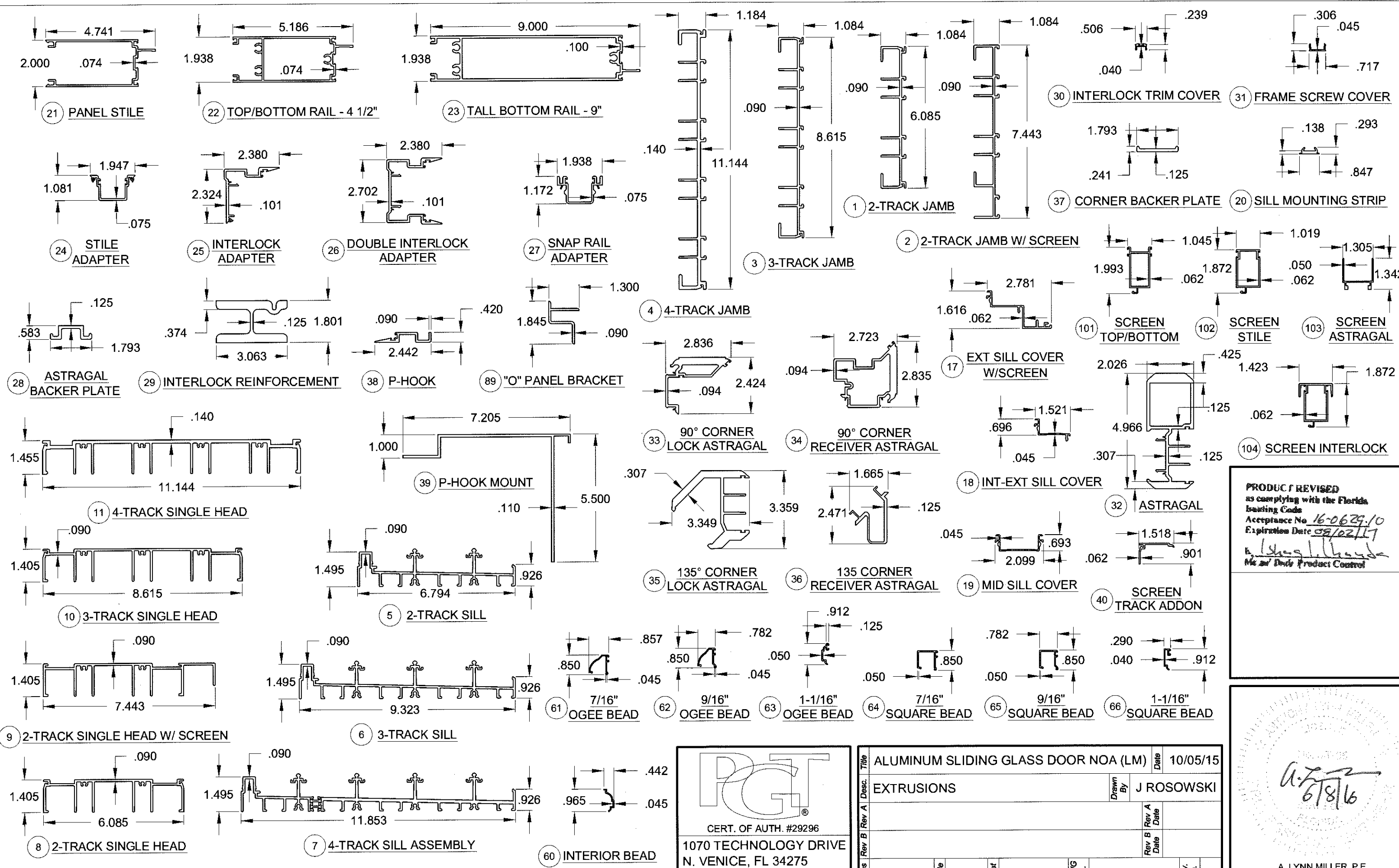
**FRAME CORNER DETAIL**  
3-TRACK FRAME SHOWN

**PGI**  
CERT. OF AUTH. #29296  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941)-480-1600

Series	SGD-780	Scale	NTS	Sheet	16 OF 18	DWG No.	MD-780.0	Rev. No.	A	
Title	ALUMINUM SLIDING GLASS DOOR NOA (LM)									
Date	10/05/15									
Desc.	PANEL TYPES							Drawn By	J ROSOWSKI	
Rev A	Date									
Rev B	Date									

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 16-0629.10  
Expiration Date 08/02/17  
A. Lynn Miller  
Miami Design Product Control

Professional Engineer Seal  
A. LYNN MILLER, P.E.  
P.E.# 58705



NOTES: 1) SEE SHEET 4 FOR SILL RISERS. ALL DIMENSIONS IN INCHES.

**PGT**  
CERT. OF AUTH. #29296  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941)-480-1600

Series	SGD-780	Scale	.25	Sheet	17 OF 18	DWG No.	MD-780.0	Rev. No.	A
Title	ALUMINUM SLIDING GLASS DOOR NOA (LM)								
Desc.	EXTRUSIONS							Drawn By	J ROSOWSKI
Rev A	Date	Rev B	Date	Rev C	Date	Rev D	Date	Rev E	Date

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 16-0629-10  
Expiration Date 08/02/17  
A. Lynn Miller  
Me and Dade Product Control

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

6/8/16

TABLE D:

#	Part #	Description	Material
1	8134	2-Track Jamb	6063 T6 Al
2	8135	2-Track Jamb with Screen Rail	6063 T6 Al
3	8133	3-Track Jamb	6063 T6 Al
4	8132	4-Track Jamb	6063 T6 Al
5	8118	2-Track Sill	6063 T6 Al
6	8116	3-Track Sill	6063 T6 Al
7	8120	4-Track Sill	6063 T6 Al
8	8127A	2-Track Head	6063 T6 Al
9	8128A	2-Track Head with Screen Rail	6063 T6 Al
10	8124	3-Track Head	6063 T6 Al
11	8121	4-Track Head	6063 T6 Al
12	8140	Sill Riser - 1-5/8"	6063 T6 Al
13	8139	Sill Riser - 2-3/4"	6063 T6 Al
14	8138	Sill Riser - 3-1/2"	6063 T6 Al
15	8137	Sill Riser - 4-1/2"	6063 T6 Al
16	8182	Sill Riser - 5-1/4"	6063 T6 Al
17	8119A	Ext. Sill Cover with Screen Rail	6063 T6 Al
18	8117	Int-Ext. Sill Cover	6063 T6 Al
19	8115	Mid-Sill Cover	6063 T6 Al
20	8183	Sill Mounting Strip/Anchor Plate	6063 T6 Al
21	8012	Panel Stile	6063 T6 Al
22	8014C	Top/Bottom Rail	6063 T6 Al
23	8013C	9" Tall Bottom Rail	6063 T6 Al
24	8104	Stile Adaptor	6063 T6 Al
25	8102	interlock Adaptor (Single)	6063 T6 Al
26	8101	interlock Adaptor (Double)	6063 T6 Al
27	8103	Top Snap Rail Adaptor	6063 T6 Al
28	8105	Astragal Backup Plate	6063 T6 Al
29	8192	interlock Reinforcement	6105 T5 Al
30	8200	interlock Screw Cover with T-slot	6063 T6 Al
31	8136	Frame Screw Cover	6063 T6 Al
32	8107C	Astragal	6063 T6 Al
33	8110	90° Corner Lock Astragal	6063 T6 Al
34	8111	90° Corner Astragal Receiver	6063 T6 Al
35	8204	135° Corner Astragal	6063 T6 Al
36	8205	135° Passive Corner Mount	6063 T6 Al
37	8112	90° Corner Astragal Backup Plate	6063 T6 Al
38	8108	Pocket Door P-Hook	6063 T6 Al
39	8109	Pocket Door P-Hook Mount	6063 T6 Al
40	8141	Screen Frame Add-on (Sill)	6063 T6 Al
41	8142A	Screen Frame Add-on (Head)	6063 T6 Al
42	8143A	Screen Track Addon	6063 T6 Al

NOTES:

1) ITEMS # 43, 48-49, 56-59, 76-79, 81 & 101-109 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.

TABLE D, CONTINUED:

Bill of Material			
#	Part #	Description	Material
44	6TP248	Vinyl Bulb Weatherstrip @ Interlock	Flex PVC
45	6TP247	Vinyl Bulb Weatherstrip @ P-hook	Flex PVC
46	1644	.187" X .270" Weatherstrip	
47	1673	.500" Door Seal	
50		5/16" X 2" Lagbolt	SS
51	8197	Lagbolt Washer	SS
52	8153	Tandem Roller Assembly	SS
53	8153	Tandem Roller Assembly	Nylon
54		#10" X 1-1/2" Ph. PH. SMS @ Roller	SS
55	8052	Roller Adj. Hole Plug	PVC
60	8022	Interior Bead	6063 T5 Al
61	8150	7/16" OG Bead	6063 T5 Al
62	8145	9/16" OG Bead	6063 T5 Al
63	8146	1-1/16" OG Bead	6063 T5 Al
64	8150	7/16" Square Bead	6063 T5 Al
65	8148	9/16" Square Bead	6063 T5 Al
66	8149	1-1/16" Square Bead	6063 T5 Al
67	6TP247	Vinyl Glazing Bulb	
68	1643	Foam-filled Glazing Bulb (7/16" glazing only)	
69		Dow 899, 995 or Instantglaze Glazing Silicone	Silicone
70	1725	Setting Block, 1/2" X 4" X 1/16", 85 +/- 5 duro.	EPDM
71	1726	Setting Block, 1" X 4" X 1/16" (IG), 85 +/- 5 duro.	EPDM
80	710X34PPSDAX	#10 X 3/4" Ph. PH. SMS @ P-hook	SS
82	710X58PPTX	#8 X 5/8" Ph. PH. SMS @ Interlock	SS
83	710X115PPX	#10 X 1-1/2" Ph. PH. SMS @ Astragal	SS
84	1155	#8 X 1" PH. Quad. SMS @ Main frame	SS
85	72087K	Jamb Bumper	
86	76X38PPAX	#6 X .375" Ph. PH. SMS	SS
87	4385	4 Hole Bumper Stop	
88	78X38PPTX	#8 X 3/8" Ph. PH. SMS	Steel
89	8193	"O" Panel Bracket - 12" long	
90		#10 X 3/4" Ph. PH. SMS @ Fixed "O" Bracket to Stile	SS
91		#8 X 3/4" Ph. FH. SMS @ Fixed "O" Bracket to Frame	SS

TABLE D, CONTINUED:

Bill of Material			
#	Part #	Description	Material
92	Varies	Handle Kit	Cast Zinc
93	8185X	Gemini Mortice Lock w/Long Trim Plate	SS
94	8184X	Gemini Mortice Lock w/Pocket Trim Plate	SS
95		#10-32 X 1" Ph. FH. MS	Steel
96		#10-32 U-Nut	Steel
97		1" Mortice Keeper, 135° Corner & Straight	SS
98	8187X	3/4" Mortice Keeper, 90° Corner	SS
99		#10 X 1-1/2" Ph. PH. SMS @ Keeper	SS
100	1032X1FFPX	10-32 X 1" Ph. FH. MS	SS
110	4317	Screen Top Rail	6063 T6 Al
111	4318	Screen Bottom Rail	6063 T6 Al
112	4319	Screen Side Rail/Lockstile	6063 T6 Al
113	8152	Screen Interlock Adapter	6063 T6 Al
114	4344	Screen Astragal	6063 T6 Al
115	7SRAZ	Roller	Nylon
116	7SRAX	Roller	SS
117		1/4" X 1" MS @ Top Rail	SS
118		1/4" X 1-1/2" MS @ Bottom Rail	SS
119		Screen Lockset	Steel
120	653	Screen Lock Keeper	Steel
121	1179	#10 X 3/4" Ph. PH. SMS @ Keeper	SS
122	1793	.270" X .150" Weatherstrip	
123	1692	Screen Spline - .165"	Vinyl
124		Screen Cloth	Fiberglass

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 16-0629-10  
 Expiration Date August, 2017  
 E. L. SHAW, P.E.  
 Met and Daily Product Control

Professional Engineer Seal  
 No. 19709  
 A. Lynn Miller, P.E.  
 P.E.# 58705



Series	SGD-780	Scale	NTS	Sheet	18 OF 18	DWG No.	MD-780.0	Rev. No.	A
Title	ALUMINUM SLIDING GLASS DOOR NOA (LM)								
Desc.	PARTS LIST								
Drawn By	J ROSOWSKI								
Rev A Date									
Rev B Date									