MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

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

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 D** titled "Aluminum Sliding Glass Door (LM)", sheets 1 through 18 of 18, dated 10/05/15 and last revised on 06/18/23, prepared by PGT Industries, signed and sealed by Anthony Lynn Miller, P. E., bearing the Miami-Dade County Product Control Renewal 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 ft²**. 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 sheet **11** for glass options. See sheets **12** thru **15** for anchors lay out at tracks and corners. See Pocket anchor details in sheet **6**.
3. Pockets wall, cavity is 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 #22-0608.05** and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 & E-5, as well as approval document mentioned above.
The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

MIAMI-DADE COUNTY
APPROVED

Ishaq I. Chanda

NOA No. 23-0710.02
Expiration Date: August 02, 2027
Approval Date: August 03, 2023

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous approvals

A. DRAWINGS

1. Manufacturer's die drawings and sections (Submitted under files # listed below)
2. Drawing No. **MD-780.0 Rev B** titled "Aluminum Sliding Glass Door (LM)", sheets 1 through 18 of 18, dated 10/05/15 and last revised on 07/17/17, prepared by PGT Industries, 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 Aluminum SGD (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 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, TAS 202-94

Along with marked-up drawings and installation diagram of Aluminum SGD w/135° 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 # **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

1. Anchor verification calculations and structural analysis dated 04/08/17 and last revised on 07/17/17, complying with FBC-2017 (**6th** Edition), prepared by PGT, signed and sealed by Lynn Miller, P.E.
2. Anchor verification calculations and structural analysis dated 01/20/16, complying with FBC-2014 (**5th** Edition), prepared by PGT, signed and sealed by Lynn Miller, P.E. (submitted under file #15-0903.09)
3. Glazing complies w/ ASTME-1300-02, 04 & -09.

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0710.02
Expiration Date: August 02, 2027
Approval Date: August 03, 2023

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. **14-0916.11** 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. **16-1117.01** issued to **Kuraray America, Inc.** (Former E.I. DuPont DeNemours & Co., Inc.) for the "**Trofosil Ultra clear & color PVB Interlayers** (former **Butacite)**", expiring on 07/08/19.

F. STATEMENTS

1. Statement letter of conformance to FBC 2017 (6th Edition) and FBC 2014(5th edition), prepared by PGT, dated July 17, 2017, signed and sealed by Lynn Miller, P.E.
2. Statement letter of conformance to FBC 2014(5th edition) and letter of no financial interest, prepared by PGT, dated 08/28/15, signed and sealed by Lynn Miller, P.E. (submitted under file #15-0903.09)
3. Spacer reference e-mail by PGT dated Jan 13, 2016, signed by Lynn Miller, P.E.
4. Lab compliance as part of the above referenced test report.

G. OTHER

1. This NOA **revises & renews** NOA **#16-0629.10**, expiring 08/02/22.
2. Test proposal # **07-2583**, approved by BCCO, **#14-1739 & 17-0387** approved by RER.

2. Evidence submitted under previous approval

A. DRAWINGS

1. Drawing No. **MD-780.0 Rev C** titled "Aluminum Sliding Glass Door (LM)", sheets 1 through 18 of 18, dated 10/05/15 and last revised on 04/22/20, prepared by PGT Industries, signed and sealed by Anthony Lynn Miller, P. E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) 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 all PGT Industries, Inc. representative units listed below and tested to qualify **Dowsil 791** and **Dowsil 983** silicones, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.:
FTL-7897, PGT PW5520 PVC Fixed Window (unit 6 in proposal), dated 09/03/14, **FTL-20-2107.1,** PGT SGD780 Aluminum Sliding Glass Door (unit 7 in proposal) **FTL-20-2107.2,** PGT CA740 Alum. Outswing Casement Window (unit 8 in proposal) **FTL-20-2107.3,** PGT PW7620A Aluminum Fixed Window (unit 9 in proposal) and **FTL-20-2107.4**, PGT PW7620A Aluminum Fixed Window (unit 10 in proposal) dated 07/13/20, all signed and sealed by Idalmis Ortega, P.E.

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0710.02
Expiration Date: August 02, 2027
Approval Date: August 03, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 7th Edition (2020)**, dated 04/22/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Glazing complies with **ASTM E1300-04, -09, -12 and -16**.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-0808.02** issued to **Kuraray America, Inc.** (Former E.I. Pont DE Nemours & Co., Inc.) for the "**Sentry Glass ® (Clear and White) Glass Interlayers**", expiring on 07/04/23.
2. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** (Former E.I. DuPont DE Nemours & Co., Inc.) for the "**Trofosil Ultra clear & color PVB Interlayers** (former **Butacite)**", expiring on 07/08/24.

F. STATEMENTS

1. Statement letters of conformance to FBC 2020(**7th** Edition), dated 04/18/20, prepared, signed & sealed by Lynn Miller, P. E.

G. OTHER

1. This NOA **revises NOA #17-0420.04** and updates to FBC 2020 (7th Edition), expiring 08/02/22.
2. RER Test proposals #**19-1155** dated 01/10/20 approved by Ishaq I. Chanda, P.E.

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0710.02
Expiration Date: August 02, 2027
Approval Date: August 03, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted previous approval

A. DRAWINGS

1. Drawing No. **MD-780.0 Rev C** titled "Aluminum Sliding Glass Door (LM)", sheets 1 through 18 of 18, dated 10/05/15 and last revised on 04/22/20, prepared by PGT Industries, signed and sealed by Anthony Lynn Miller, P. E.

B. TESTS

1. None.

C. CALCULATIONS (submitted under previous approval)

1. Anchor verification calculations and structural analysis, complying with **FBC 7th Edition (2020)**, dated 04/22/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Glazing complies with **ASTM E1300-04, -09, -12 and -16**.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-0808.02** issued to **Kuraray America, Inc.** (Former E.I. DuPont DE Nemours & Co., Inc.) for the "**Sentry Glass ® (Clear and White) Glass Interlayers**", expiring on 07/04/23.
2. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** (Former E.I. DuPont DE Nemours & Co., Inc.) for the "**Trofosil Ultra clear & color PVB Interlayers (former Butacite)**", expiring on 07/08/24.

F. STATEMENTS

1. Statement letters of conformance to FBC 2020(**7th** Edition), dated 05/26/22, prepared, signed & sealed by Lynn Miller, P. E.
2. Statement e-letter dated 05/26/22 issued by PGT Industry, Inc, requesting renewal with no change, signed and sealed by Lynn Miller, P.E.

G. OTHER

1. This NOA **renews NOA #20-0429.03**, expiring 08/02/27.

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0710.02
Expiration Date: August 02, 2027
Approval Date: August 03, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. New Evidence submitted

B. DRAWINGS

1. Drawing No. **MD-780.0 Rev D** titled "Aluminum Sliding Glass Door (LM)", sheets 1 through 18 of 18, dated 10/05/15 and last revised on 06/18/23, prepared by PGT Industries, signed and sealed by Anthony Lynn Miller, P. E.

B. TESTS (submitted under previous approval)

1. None.

C. CALCULATIONS (submitted under previous approval)

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-0808.02** issued to **Kuraray America, Inc.** (Former E.I. DuPont DE Nemours & Co., Inc.) for the "**Sentry Glass ® (Clear and White) Glass Interlayers**", expiring on 07/04/23.
2. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** (Former E.I. DuPont DE Nemours & Co., Inc.) for the "**Trofosil Ultra clear & color PVB Interlayers (former Butacite)**", expiring on 07/08/24.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)** and the **FBC 8th Edition (2023)**, dated 06-18-23, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letters of conformance to FBC 2020(**7th** Edition), dated 05/26/22, prepared, signed & sealed by Lynn Miller, P. E.

G. OTHER

1. This NOA **revises NOA #20-0608.05** and updates to FBC 2023 (8th Edition), expiring 08/02/27.

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0710.02
Expiration Date: August 02, 2027
Approval Date: August 03, 2023

SGD780 IMPACT RESISTANT SLIDING GLASS DOOR
INCLUDING INT./EXT. POCKETS & 90°/135° CORNERS

DESIGN PRESSURE RATING	IMPACT RATING
SEE TABLES 1, 1A & 1C ON SHEETS 7 & 8	WINDBORNE DEBRIS & SMALL MISSILE IMPACT RESISTANCE

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. 4000 PSI FOR ANCHOR TYPE.

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 AND SECURED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER (EOR) OR ARCHITECT OF RECORD (AOR).

5) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE REQUIRED MIN. EMBEDMENT. SILL ANCHORS MUST BE SEALED. INSTALLATION SCREWS, FRAME AND PANEL CORNERS TO BE SEALED WITH NARROW JOINT SEALANT. 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 TESTING AND GLASS PER ASTM E1300.
- B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL TESTING AND GLASS PER ASTM E1300.
- C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN (ASD).

8) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS 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) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

10) APPLICABLE EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

11) IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, MAX. 1/4" THICK & 2000 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.

12) REFERENCES: TEST REPORTS: PTL 5254, 5270, 5618, 5619, 6322, 6374 & 6718.01241.01-401.16 DEWALT ULTRADEX+ NOA; DEWALT BLUED DRIVERLESS NOA AND KOMBI GATOR NOA.

TABLE A

Anchor Group	Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. O.C. Spacing	Min. Embedment or Metal Thickness
A	#12 X 1-1/2" SS SMS	(A)	Southern Pine (SG = 0.42)	0.75"	1.5"	1.125"
			ASD 70 psi lumber	0.75"	0.75"	0.875"
			2.5X Rule	0.9"	1.75"	1.875"
			1X 1.5 Wood (WB)	0.5"	0.75"	0.875" (1.0 Min.)
	1/4" Aggre-Gator	(C)	Concrete/CMU (f'c = 2,000 psi)	1.125"	3"	1.125"
		(W/C) 1" Pocket	Fiber Brick (ASTM C 62)	3"	3"	3"
		(W/C) 2" Pocket	Hollow Brick (ASTM C652)	3"	3"	1.125"
		(A)	2X (1.5" wide) Wood (SG = 0.42)	1"	1"	1.125"
B	#12 Wood SMS (Ref. 5)	(A)	Southern Pine (SG = 0.42)	0.75"	1.5"	1.125"
			ASD 70 psi lumber	0.75"	0.75"	0.875"
			2.5X Rule	0.9"	1.75"	1.875"
			1X 1.5 Wood (WB)	0.5"	0.75"	0.875" (1.0 Min.)
C	1/4" Wedge Anchor (Ref. 5)	(B)	Concrete/CMU (f'c = 2,000 psi)	1.125"	4"	1.125"
		(W/C) 1" Pocket	Hollow Brick (ASTM C652)	3"	3"	1.125"
D	1/4" x 2" SS Drill/Tap	Head, (B)	Concrete/CMU (f'c = 2,000 psi)	1"	4"	1.125"
		(W/C) 1" Pocket	Fiber Brick (ASTM C 62)	1"	3"	1.125"
		(W/C) 2" Pocket	Hollow Brick (ASTM C652)	1.125"	3"	1.125"
		(A)	2X (1.5" wide) Wood (SG = 0.42)	1"	1"	1.125"

1) WHERE SUBSTRATE CONDITIONS REQUIRE ANCHORAGES FROM MORE THAN ONE OF THE ANCHOR GROUPS ABOVE, CHOOSE THE ANCHOR GROUP OF THE LOWEST LETTER FOR ALL TABLES IN THIS APPROVAL.
2) ALL ANCHOR HEAD TYPES ARE APPLICABLE.
3) FOR THE MINIMUM STRENGTH OF ANCHORS AND SUBSTRATES, SEE TABLE 2, SHEET 10.
4) PECAN SLOPE GRAIN MAY ALSO BE USED IN HOLLOW BLOCK APPLICATIONS.
5) ANCHORS MUST BE OF SUFFICIENT LENGTH TO PIERCE A MINIMUM OF 3 THREADS BEYOND METAL SUBSTRATE. ALUMINUM SUBSTRATES AT POCKET TO BE MIN. 1/8".

CODES / STANDARDS USED:
- 2023 FLORIDA BUILDING CODE (FBC), 8TH EDITION
- 2020 FLORIDA BUILDING CODE (FBC), 7TH EDITION
- ASTM E1300-16
- AWS D1.2/D1.2M:2003 STRUCTURAL WELDING CODE-ALUMINUM
- ALUMINUM DESIGN MANUAL, ADM-2020
- ASD 9th ED.
- AISC 360-16

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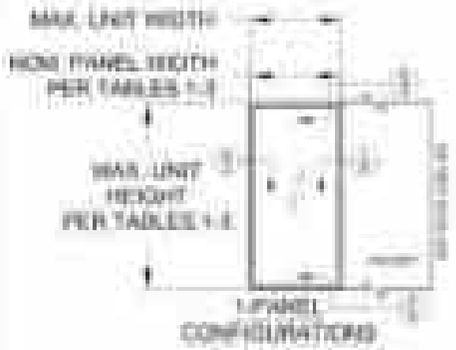
PGT Products Windows and Doors
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
941-486-8686

PREPARED BY: A. CHRIS MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
941) 486-8686
REGISTRATION #29304

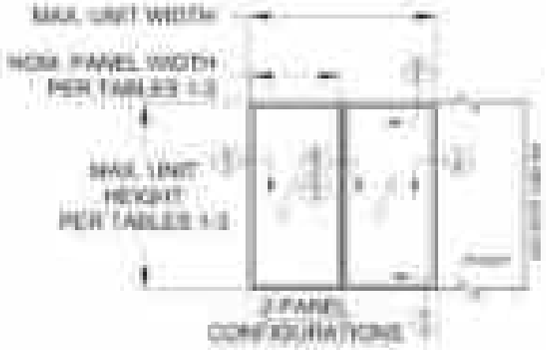
PRODUCT REVISED
in complying with the Florida Building Code.
Effective: 03/07/19 GE
Expiration Date: Unknown
By: Miami-Dade Product Control

F: ALUMINUM SLIDING GLASS WINDOW (LM) | 10/05/15
GENERAL NOTES | JENS ROSORIUS
APPROVED TO 2023 FBC, 8TH EDITION TITLE BLOCK & LAYOUT - JR | 06/06/23
SGD-780 | 1 OF 18 | MD-780.0 | 0

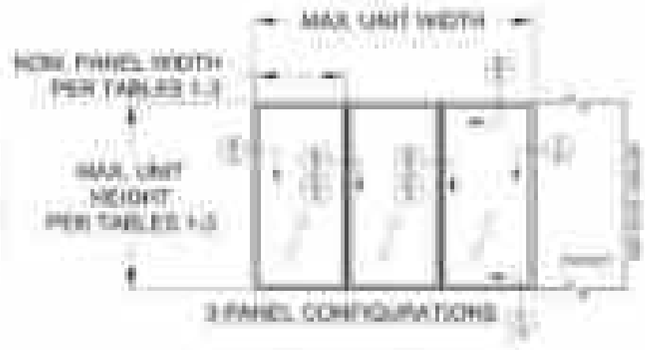
ANTHONY LYNN MILLER
LICENSE
No. 29709
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
N. CHRISTOPHER MILLER
P.E. #29709



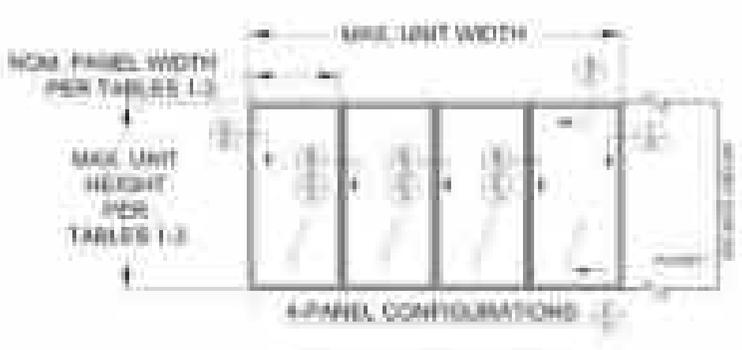
1-PANEL CONFIGURATIONS



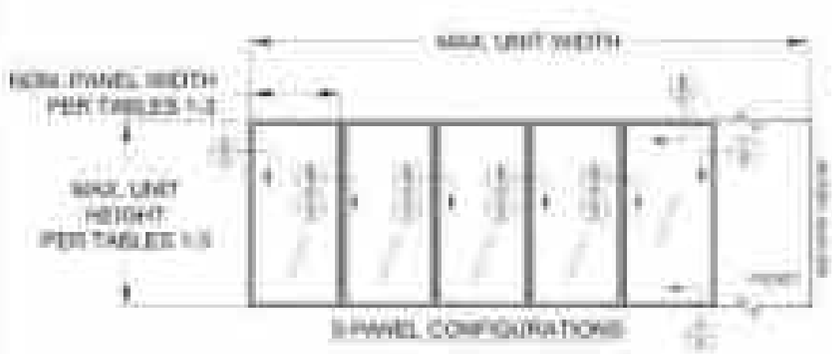
2-PANEL CONFIGURATIONS



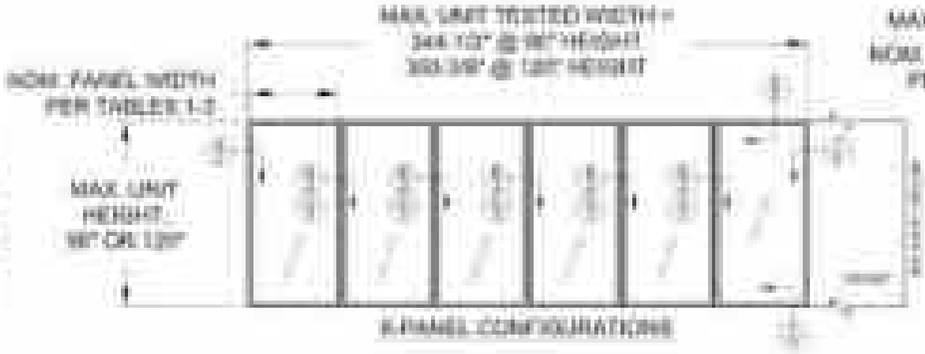
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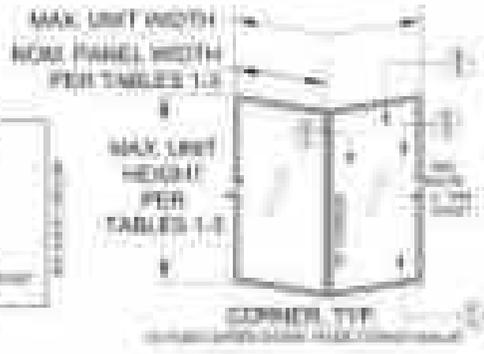
4-PANEL CONFIGURATIONS



5-PANEL CONFIGURATIONS

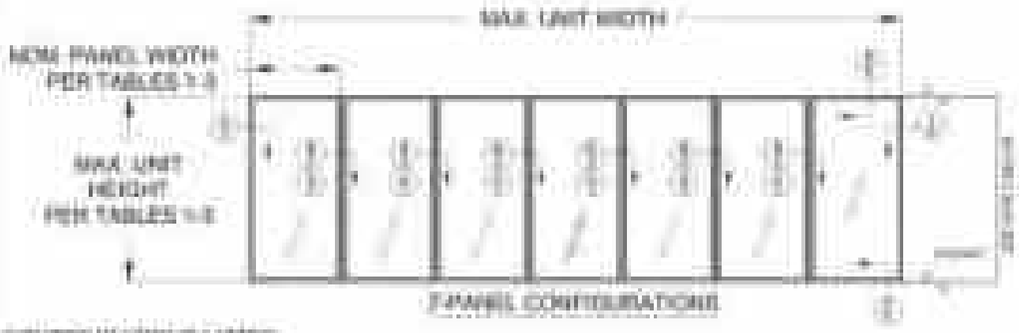


6-PANEL CONFIGURATIONS

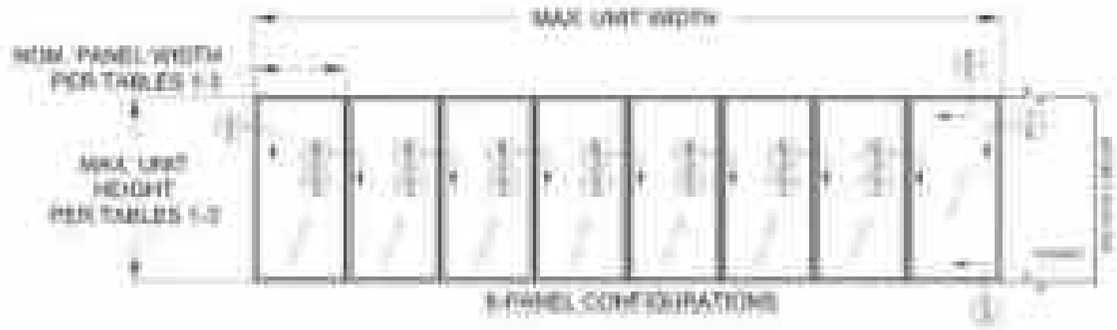


CORNER TYP.

DETAIL LETTER
SHEET NUMBER



7-PANEL CONFIGURATIONS



8-PANEL CONFIGURATIONS

"O" = OPERABLE PANEL
"OF" = INOPERABLE PANEL
"V" = POCKET

CONFIGURATIONS NOTES:

1) ALL CONFIGURATIONS SHOWN ARE ALSO AVAILABLE AS POCKET CONFIGURATIONS AT EITHER OR BOTH JAMB LOCATIONS. EXAMPLE: 4-PANEL XOOX IN POCKET (p) CONFIGURATION CAN BE pXOOXp, pXOOO OR OOOXp. OXOX IN POCKET CONFIGURATION CAN BE OXOXp.
2) 90° 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 = 975.47 FT²

DLO WIDTH = NOM. PANEL WIDTH - 1.875"
DLO HEIGHT (STD. BOT. RAIL, #20) = DOOR UNIT HEIGHT - 13.47"
DLO HEIGHT (TALL BOT. RAIL, #23) = DOOR UNIT HEIGHT - 17.28"
PANEL HEIGHT = DOOR UNIT HEIGHT - 2.25"

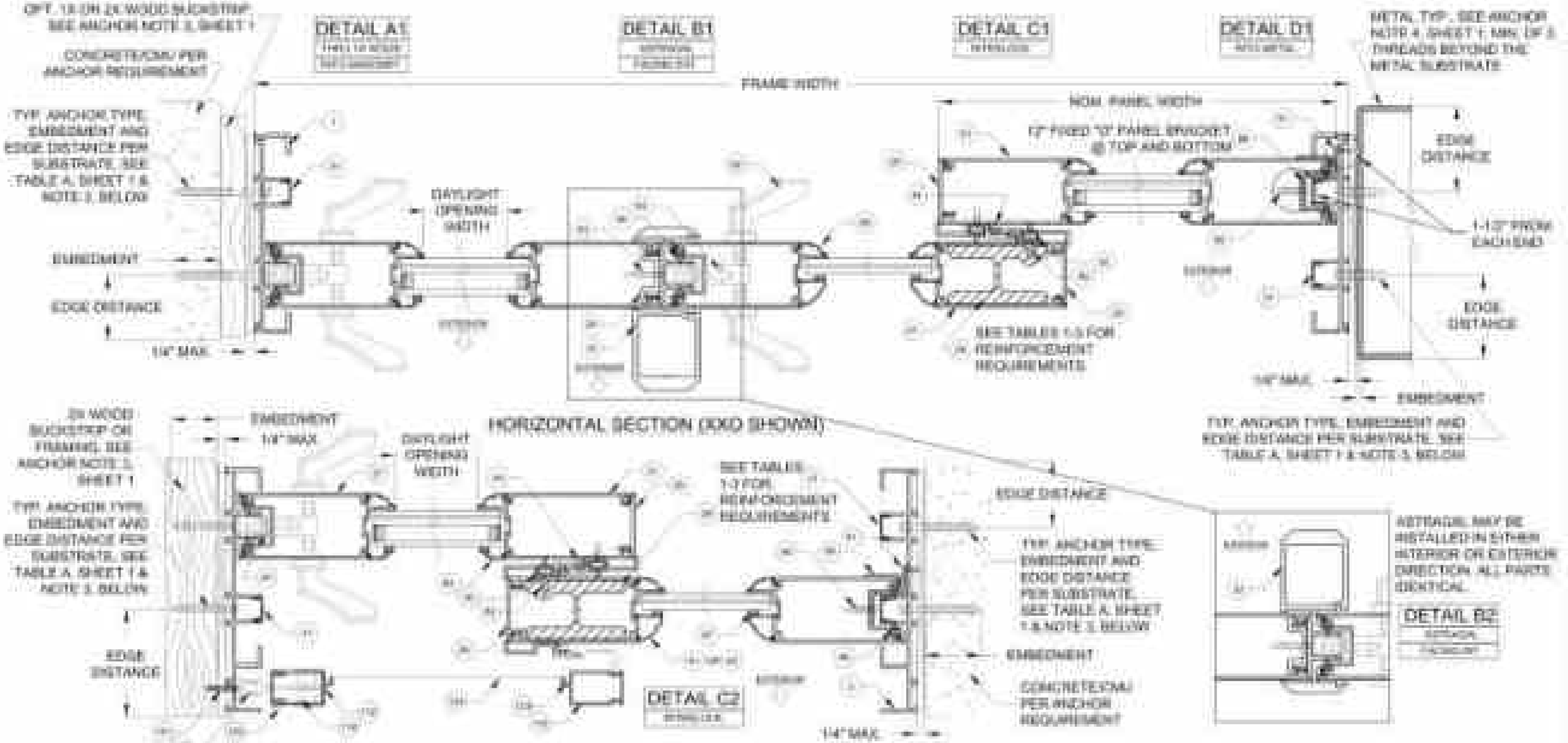
PRODUCT REVISED
to comply with the Florida Building Code.
NOA No. 23-0710.02
Expiration Date: 08/22/2027
By: Miami-Dade Product Control

PGT
Product Guardian and Trust
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 486-1600

PREPARED BY: A. CHRIS MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 486-1600
REGISTRATION #28256

F: ALUMINUM SLIDING GLASS WINDOW (LM) | 10/05/15
CONFIGURATIONS | BY: JENS ROSORIUS
TITLE BLOCK & LAYOUT - JR | 06/06/23
300-TNS | 2 OF 18 | MD-TNS.0 | D

ANTHONY LYNN MILLER
LICENSE
No. 28256
STATE OF
FLORIDA
PROFESSIONAL ENGINEER



NOTES:
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS. SEE SHEET 12 FOR ANCHOR LOCATIONS & SPACING FOR EACH TRACK CONFIGURATION.
2) REFER TO ANCHOR NOTES, SHEET 1.
3) 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.

PRODUCT REVISED
In complying with the Florida Building Code,
Note No. 23-0710.08
Expiration Date 08/02/2027
By
Wintek Dade Product Control

PGT
Impact Windows and Doors
TYPE TECHNOLOGY CENTER
N. VENICE, FL 34275
(941) 486-8686

PREPARED BY: A. LYNN MILLER
WITH TECHNOLOGY GROUP
N. VENICE, FL 34275
(941) 486-8686
REGISTRATION #20008

F: ALUMINUM SLIDING GLASS WINDOW (LM)			10/05/15
INSTALLATION, HORIZ. X-SECT		BY: JENS ROSORIUS	
TITLE BLOCK & LAYOUT - JR			04/06/23
300-760	3 OF 16	MD-760.0	D

ANTHONY LYNN MILLER
LICENSE
No. 39759
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
N. VENICE, FL
FL # 39759

DETAIL E1

CONCRETE/CMU PER ANCHOR REQUIREMENT

EMBEDMENT

1/4" MAX. SHIM

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

1/4" MAX. SHIM

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

DAYLIGHT OPENING HEIGHT

PANEL HEIGHT

FRAME HEIGHT

GROUT AS NEEDED SEE ANCHOR NOTE 5, SHEET 1

1/4" MAX. SHIM EDGE DISTANCE EMBEDMENT

CONCRETE/CMU PER ANCHOR REQUIREMENT

DETAIL F1

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

VERTICAL SECTION

DETAIL E2

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

EDGE DISTANCE

EMBEDMENT

1/4" MAX. SHIM

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

EMBEDMENT IN WOOD BUCKSTRIP OR FRAMING, SEE ANCHOR NOTE 3, SHEET 1

DETAIL F2

EDGE DISTANCE

1/4" MAX.

1 5/8" + TOTAL SILL HEIGHT

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

VERTICAL SECTION

DETAIL E3

CONCRETE/CMU PER ANCHOR REQUIREMENT

EDGE DISTANCE

EMBEDMENT

1/4" MAX. SHIM

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

OPT. SCREEN TRACK ADDON SIMILAR FOR HEAD AND JAMB, 2-4 TRACKS

DETAIL E4

GADE APPROVED MULLION, FBC COMPLIANT ALUMINUM/STEEL FRAMING OR STEEL STUD, SEE SUBSTRATE PROPERTIES, TABLE A, SHEET 1

EDGE DISTANCE

EMBEDMENT

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

NOTES

1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS, SEE SHEETS 12-15 FOR ANCHOR LOCATIONS & SPACING FOR EACH TRACK CONFIGURATION
2) REFER TO ANCHOR NOTES, SHEET 1
3) 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 7-9 & TABLES C1-C3

SILL RISER (1-5/8" TOTAL SILL HEIGHT)

SILL RISER (2-3/4" TOTAL SILL HEIGHT)

SILL RISER (3-1/2" TOTAL SILL HEIGHT)

SILL RISER (4-1/2" TOTAL SILL HEIGHT)

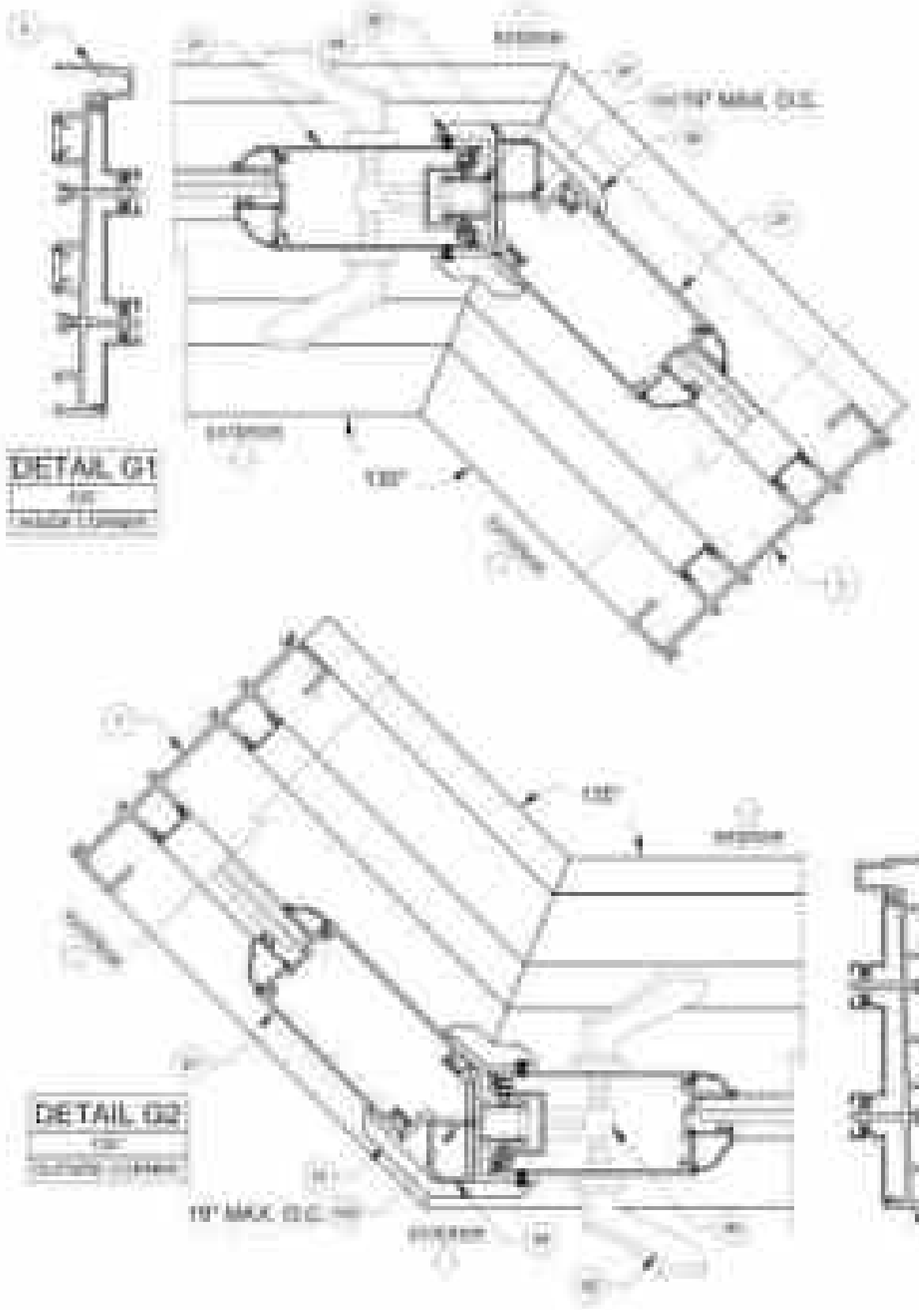
PRODUCT REVISED
in complying with the Florida Building Code,
Mod. No. FL5710.02
Expiration Date: 08/22/2027
By: Shutter Scale Product Control

PGT
Product Development and Testing
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 486-8686

PREPARED BY: A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 486-8686
REGISTRATION #30356

F: ALUMINUM SLIDING GLASS WINDOW (LM) | 10/05/15
INSTALLATION, VERT. N-SECT. | BY: JENS ROSORIUS
TITLE BLOCK & LAYOUT - JR | 06/08/23
300-760 | 4 OF 16 | MD-760.0 | D

ANTHONY LYNN MILLER
LICENSE
No. 30356
STATE OF
FLORIDA
PROFESSIONAL ENGINEER



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.

PRODUCT REVISED
In compliance with the Florida Building Code.
Hdw. No. 23.0710.09
Expiration Date: 08/02/2027
By: Miami-Dade Product Control

PGT
Prepared By: A. LYNN MILLER
NOA: 15-0805.06 EXP: 09/08
M. MIAMI, FL 33175
(941) 486-8686
REGISTRATION #29556

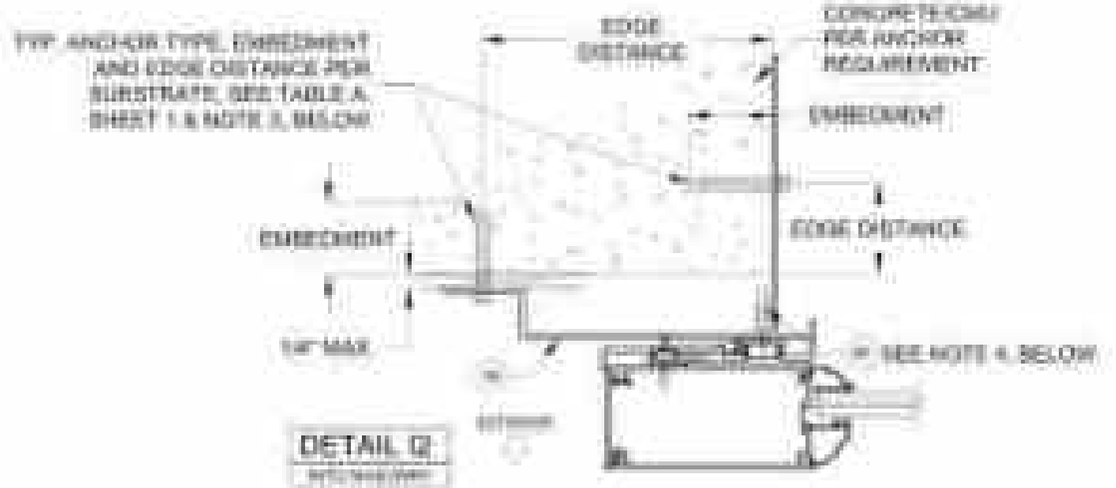
F: ALUMINUM SLIDING GLASS WINDOW (LM) | 10/05/15
C: CORNER HORIZ. X-SECT. | C: JENS ROSORIUS
T: TITLE BLOCK & LAYOUT - JR | 06/08/23
300-760 | 5 OF 16 | MD-760.0 | 01

ANTHONY LYNN MILLER
LICENSE
No. 29756
STATE OF FLORIDA
PROFESSIONAL ENGINEER



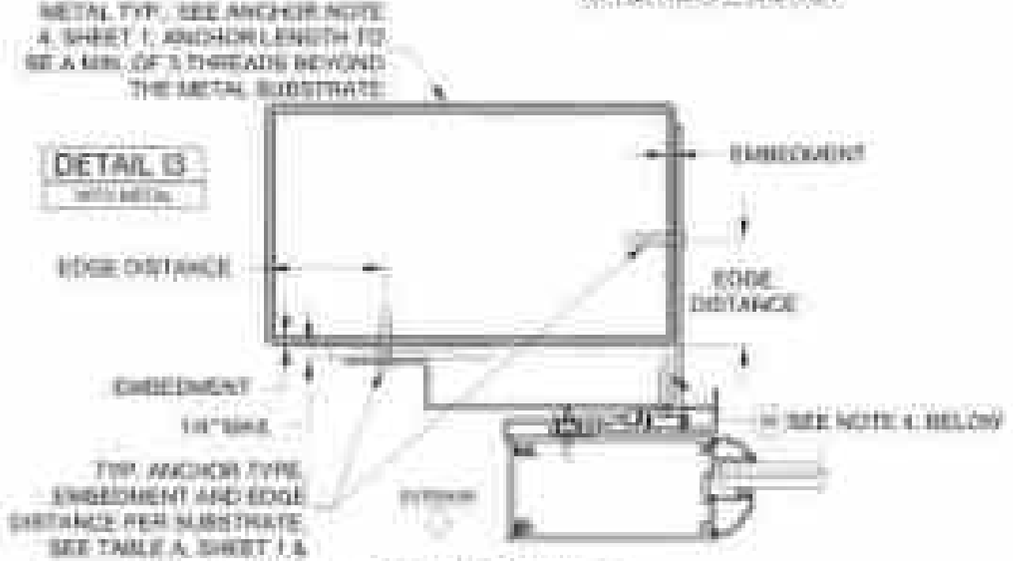
DETAIL I1

INTERIOR POCKET



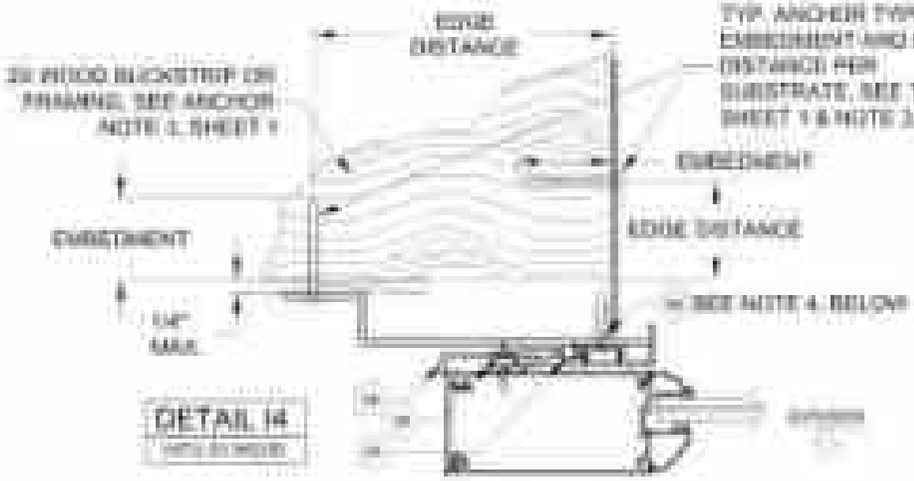
DETAIL I2

EXTERIOR POCKET



DETAIL I3

EXTERIOR POCKET



DETAIL I4

EXTERIOR POCKET

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 (0.34" DIA) @ 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.

PRODUCT REVISED
to comply with the Florida Building Code
Hist. No. 23-0710.08
Expiration Date 08/08/2027
By: Miami-Dade Product Control

PGT
Product Evaluation and Testing
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 486-1555

PREPARED BY: A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 486-1555
REGISTRATION #29356

F ALUMINUM SLIDING GLASS WINDOW (LM)			10/05/15
F-HOOK HORIZ. S SECT.		BY: JENS ROSORIUS	
TITLE BLOCK & LAYOUT - JR			06/06/23
300-710	8 OF 18	MD-710.0	03

ANTHONY LYNN MILLER
LICENSE
No. 29356
STATE OF FLORIDA
PROFESSIONAL ENGINEER

TABLE 1

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

Table applies to Class Tables 3, 4, 9 & 10 including +DP/-DP Load Reduction Options. For Maximum Load +DPs or not required, refer to the Tables Index			Door Unit Height																	
			30"				50"				80"				100"				120"	
			77 1/2" Panel Height*				97 1/2" Panel Height*				137 1/2" Panel Height*				157 1/2" Panel Height*				177 1/2" 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
30"	29 1/8" (SLD)	Design Pressure	+50 / -50 psf				+50 / -50 psf				+40 / -40 psf				+30 / -30 psf				+30 / -30 psf	
		Head (H)	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1
		Jamb (J)	6	6	6	6	6	6	6	6	10	6	6	6	12	6	6	6	12	10
		P-Value	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+3	A+3	A+3	A+3	A+3	A+3
40"	39 1/8" (SLD)	Design Pressure	+50 / -50 psf				+50 / -50 psf				+40 / -40 psf				+30 / -30 psf				+30 / -30 psf	
		Head (H)	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+1	CH+1	CH+1	CH+1
		Jamb (J)	6	6	6	6	6	6	6	6	10	6	6	6	12	6	6	6	12	10
		P-Value	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+3	A+3	A+3	A+3	A+3	A+3
48"	47 1/8" (SLD)	Design Pressure	+50 / -50 psf				+50 / -50 psf				+40 / -40 psf				+30 / -30 psf				+30 / -30 psf	
		Head (H)	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2
		Jamb (J)	6	6	6	6	10	6	6	6	12	10	6	6	12	12	10	6	12	12
		P-Value	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+3	A+3	A+3	A+3	A+3	A+3
60"	59 1/8" (SLD)	Design Pressure	+50 / -50 psf				+50 / -50 psf				+40 / -40 psf				+30 / -30 psf				+30 / -30 psf	
		Head (H)	CH+3	CH+3	CH+3	CH+3	CH+3	CH+3	CH+3	CH+3	CH+3	CH+3	CH+3	CH+3	CH+3	CH+3	CH+3	CH+3	CH+3	CH+3
		Jamb (J)	10	6	6	6	10	10	6	6	12	12	10	6	12	12	12	10	12	12
		P-Value	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+3	A+3	A+3	A+3	A+3	A+3

Not applicable to these sizes

*+/- 80.0 PSF FOR GLASS TYPES 8, 9 & 10 **SEE FORMULAS BELOW

TABLE 2

Design Pressure (DP) and Anchor Quantities Required,

(for all approved configurations on Sheet 2)

Table applies to Glass Types 1 - 4 including AMA/NWWDA 101/I.S.2/A440 Rating. Work must meet (and EXCEED) or not exposed to the Exterior Environment			Door Unit Height							
			30"				50"			
			77 1/2" Panel Height*				97 1/2" Panel Height*			
			Anchor Group				Anchor Group			
			A	B	C	D	A	B	C	D
30"	29 1/8" (SLD)	Design Pressure	+50 / -50 psf				+50 / -50 psf			
		Head (H)	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1
		Jamb (J)	6	6	6	6	6	6	6	6
		P-Value	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4
40"	39 1/8" (SLD)	Design Pressure	+50 / -50 psf				+50 / -50 psf			
		Head (H)	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1
		Jamb (J)	6	6	6	6	6	6	6	6
		P-Value	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4
48"	47 1/8" (SLD)	Design Pressure	+50 / -50 psf				+50 / -50 psf			
		Head (H)	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2
		Jamb (J)	6	6	6	6	10	6	6	6
		P-Value	A+4	A+4	A+4	A+4	A+4	A+4	A+4	A+4

*SEE FORMULAS BELOW

DLO WIDTH = NOM. PANEL WIDTH - 7 5/8"

DLO HEIGHT (STD. BOT. RAIL 422) = DOOR UNIT HEIGHT - 13 4"

DLO HEIGHT (TALL BOT. RAIL 423) = DOOR UNIT HEIGHT - 17 29"

PANEL HEIGHT = DOOR UNIT HEIGHT - 2 29"

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 CH+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.

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, +DPS 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.

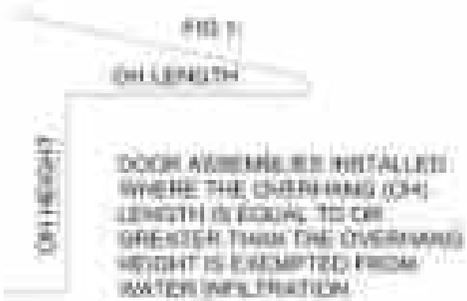
5) REFER TO ANCHOR NOTES, SHEET 1.

6) SEE SHEETS 12-15 FOR ANCHOR LOCATIONS & SPACING.

(1) JAMB IN EXAMPLE 2, SHEET 10

TABLE C1:

Water Limited (+) Design Pressure		
DLO Width	Total DLO Height	Max. (+) DP Allowed
12"	1-5/8"	See Note 2
12"	2-5/8"	+60.0 psf
12"	3-1/2"	+52.5 psf
12"	4-1/2"	+46.0 psf



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

PRODUCT REVISED
to comply with the Florida Building Code.
NOA No. 23-0710.08
Expiration Date: 08/08/2027
By: Miami-Dade Product Control

PGT
Product Solutions and Service
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
941-486-8686

PREPARED BY: A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 486-8686

REGISTRATION #29304

F: ALUMINUM SLIDING GLASS WINDOW (LM) | 10/05/15
DP & ANCHOR QUANTITY TABLE | BY: JENS ROSORIUS
TITLE BLOCK & LAYOUT - JR | 06/04/23
300-790 | 7 OF 36 | MD-790.0 | D

ANTHONY LYNN MILLER
LICENSE
No. 29304
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

TABLE 2

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

For corner wedge anchorage on 45° & 135° corner units, see sheets 14 & 15

Design Pressure (+) (Glass Types 1, 5, 11 & 15)

Reinforcement (Ref. R@) is required in the Gasket Interlock

Glass Unit Height

			30"				36"				48"				60"				72"				84"			
			"H-30" Panel Height				"H-36" Panel Height				"H-48" Panel Height				"H-60" Panel Height				"H-72" Panel Height				"H-84" Panel Height			
			Anchor Strips				Anchor Strips				Anchor Strips				Anchor Strips				Anchor Strips				Anchor Strips			
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
24"	(2) Hung/ Sliding	Design Pressure	+108 / -118 psf				+108 / -118 psf				+108 / -118 psf				+108 / -118 psf				+108 / -118 psf				+108 / -118 psf			
		Head/Sill	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1
		Jambs	4	3	3	3	5	4	4	4	6	5	4	4	7	6	5	5	8	7	6	6	9	8	7	7
		# Anchors	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8
28"	(2) Hung/ Sliding	Design Pressure	+107 / -118 psf				+107 / -118 psf				+107 / -118 psf				+107 / -118 psf				+107 / -118 psf				+101 / -118 psf			
		Head/Sill	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1	2-R1
		Jambs	5	4	4	4	6	5	5	5	7	6	5	5	8	7	6	6	9	8	7	7	10	9	8	8
		# Anchors	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8
32"	(2) Hung/ Sliding	Design Pressure	+105 / -118 psf				+105 / -118 psf				+105 / -118 psf				+105 / -118 psf				+105 / -118 psf				+99 / -118 psf			
		Head/Sill	2-R2	2-R1	2-R1	2-R1	2-R2	2-R1	2-R1	2-R1	2-R2	2-R1	2-R1	2-R1	2-R2	2-R1	2-R1	2-R1	2-R2	2-R1	2-R1	2-R1	2-R2	2-R1	2-R1	2-R1
		Jambs	5	4	4	4	6	5	5	5	8	6	5	5	9	7	6	6	10	8	7	7	11	9	8	8
		# Anchors	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8
40"	(2) Hung/ Sliding	Design Pressure	+105 / -118 psf				+105 / -118 psf				+105 / -118 psf				+105 / -118 psf				+102 / -118 psf				+92 / -118 psf			
		Head/Sill	2-R2	2-R2	2-R1	2-R1	2-R2	2-R2	2-R1	2-R1	2-R2	2-R2	2-R1	2-R1	2-R2	2-R2	2-R1	2-R1	2-R2	2-R2	2-R1	2-R1	2-R2	2-R2	2-R1	2-R1
		Jambs	6	5	4	4	7	6	5	5	9	7	6	6	11	9	7	7	13	10	8	8	15	12	9	9
		# Anchors	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8
48"	(2) Hung/ Sliding	Design Pressure	+105 / -118 psf				+105 / -118 psf				+105 / -118 psf				+105 / -118 psf				+88 / -118 psf							
		Head/Sill	2-R2	2-R2	2-R2	2-R2	2-R2	2-R2	2-R2	2-R2	2-R2	2-R2	2-R2	2-R2	2-R2	2-R2	2-R2	2-R2	2-R2	2-R2	2-R2	2-R2				
		Jambs	7	6	5	5	8	7	6	6	11	9	7	7	13	11	9	8	16	13	10	10				
		# Anchors	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8	8=8				

Not available in these sizes

**SEE FORMULAS BELOW

USED IN EXAMPLE 1, SHEET 9

TABLE NOTES:

1) IF WATER INFILTRATION RESISTANCE IS REQUIRED, THE LESSER VALUE OF TABLE 2 AND TABLE 2.2 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 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 LOCATIONS & SPACING.

DLO WIDTH = NOM. PANEL WIDTH - 7.875"
DLO HEIGHT (STD. BOT. RAIL, #22) = DOOR UNIT HEIGHT - 15.47"
DLO HEIGHT (TALL BOT. RAIL, #23) = DOOR UNIT HEIGHT - 17.28"
PANEL HEIGHT = DOOR UNIT HEIGHT - 2.25"

TABLE 2.2

Water-Limited (+) Design Pressure		
Sill Riser	Total DLO Height	Max. (+) DP Allowed
#12	< 6'-6"	See Note 2
#13	6'-6"	+60.0 psf
#14	6'-10"	+71.0 psf
#15	6'-10"	+105.0 psf

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 2.2, THIS SHEET.

TOTAL # OF ANCHORS CLUSTERED THROUGH THE HEAD & SILL AT EACH PANEL MEETING POINT. (EX: FOR GH1, 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 F-HOOK INSTALLED FROM THE INTERIOR = THE # OF ANCHORS INSTALLED FROM THE EXTERIOR.



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Hist. No. 23-0710.02
Expiration Date: 08/08/2027
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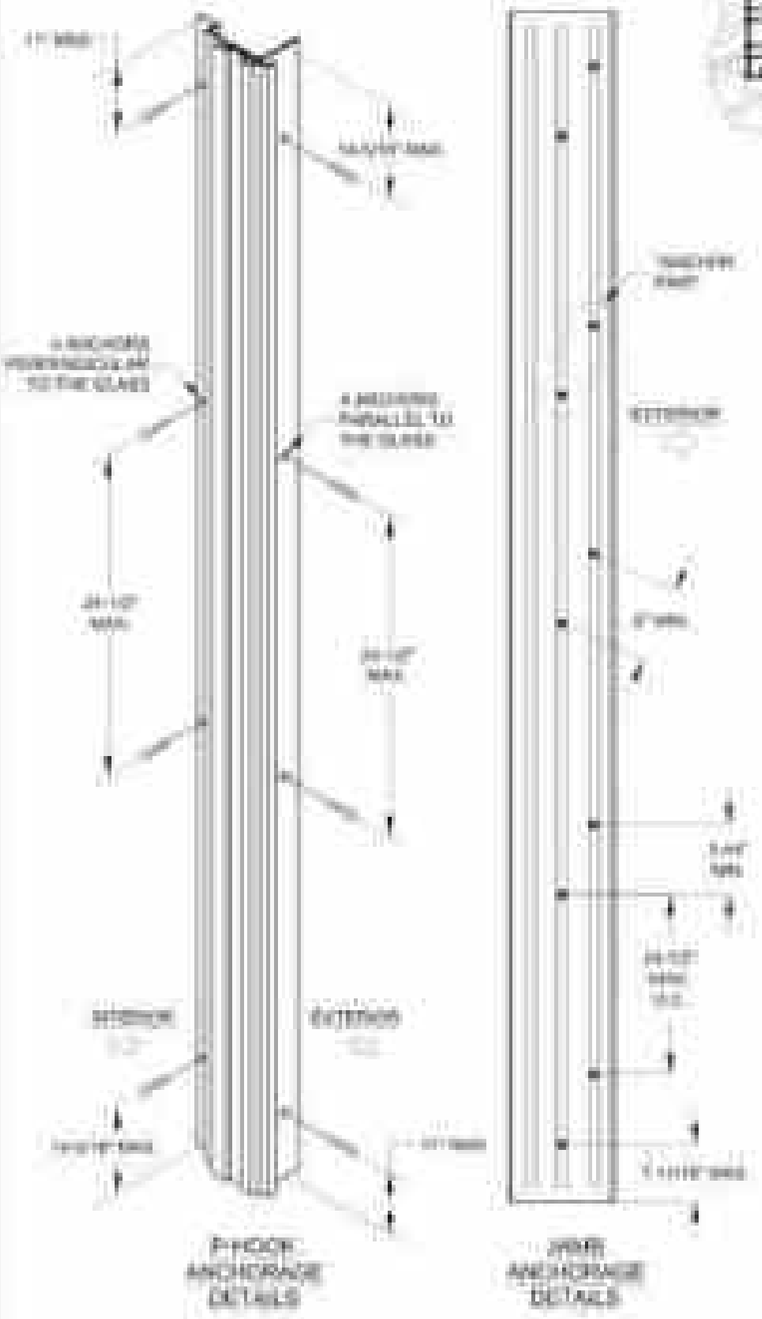
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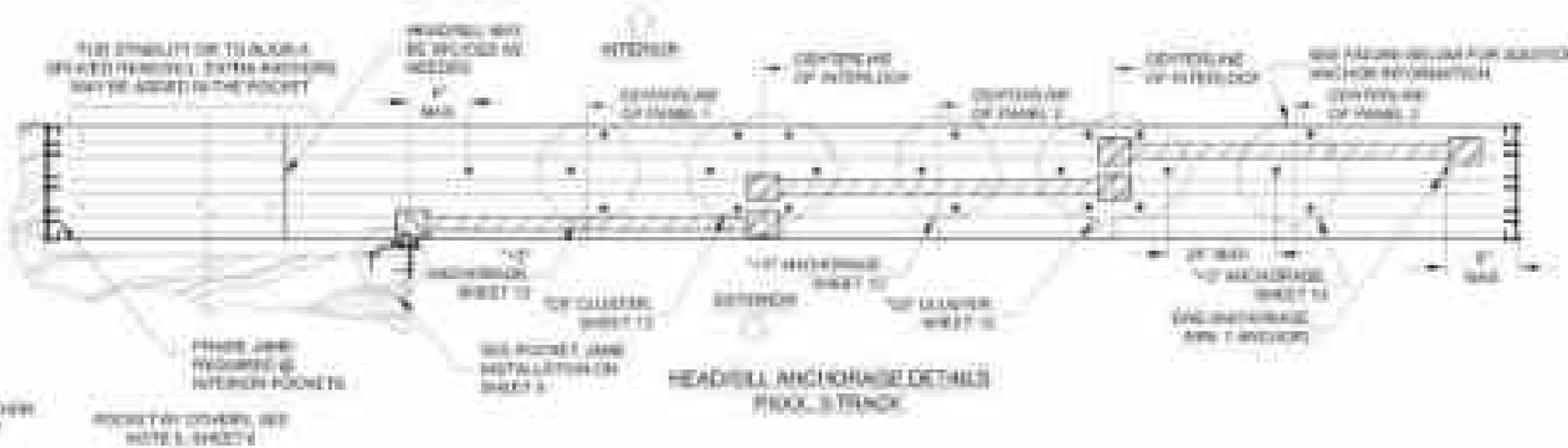
F: ALUMINUM SLIDING GLASS WINDOW (LM) | 10/05/15
DP & ANCHOR QUANTITY TABLE | J. JENS ROSORIUS
TITLE BLOCK & LAYOUT - JR | 04/04/23
300-760 | 9 OF 16 | MD-760.0 | D

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EXAMPLE 1:

3-PANEL, 3 TRACK, STRAIGHT CONFIGURATION - POOL
INTERIOR MOUNT POCKET.
48" X 80" NOM. PANELS, LAMINATED, IG GLAZING.
ANCHOR GROUP B (N WOOD SUBSTRATE.
PROJECT DESIGN PRESSURE REQUIRED: +36.0/ -36.0 PSF





USER INSTRUCTIONS

1) KNOWING THE PRODUCT'S REQUIREMENTS, SCAN THROUGH TABLES 1-1 FOR A DESIGN PRESSURE THAT MEETS OR EXCEEDS THE REQUIREMENT OF +36.0/ -36.0 AT A NOM. PANEL SIZE OF 48" X 80". FROM TABLE 3, SHEET 8, THE DESIGN PRESSURE IS +/-55.1 15 WHICH EXCEEDS THE PROJECT DESIGN PRESSURE REQUIREMENTS.

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

Head/Sill	GB-2
Jamb	12
P-Hook	4+4

2) ANCHOR LOCATION DETAILS, (AS SHOWN ON THIS SHEET) CAN BE FOUND ON HEADSILL, SHEET 13 FOR THE "GB" CLUSTER ANCHORS AT INTERLOCK, SHEET 12 FOR THE INTERMEDIATE "+/-" ANCHORS
LOCATED AT THE CENTERLINE OF ALL 3 PANELS.
JAMB: 6 PAIRS OF ANCHORS = 12 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 13 FOR GENERAL LAYOUT.

3) INSTALLATION DETAILS INTO WOOD CAN BE FOUND ON HEADSILL & 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: ("+/-" ANCHORAGE ONLY)



ANCHORS AT THE MIDPOINT OF END PANELS ARE ONLY REQUIRED IF THE O.C. DISTANCE TO THE NEAT ANCHOR CLUSTER IS OVER 24", OTHERWISE ANCHORS ARE NOT REQUIRED AT THE MIDSPAN AS PER THE FIGURE ABOVE.

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Mod. No. 23-0710.02
Expiration Date: 06/02/2027
By: Rhett Bade Product Control

PGT
Product Promotion and Design
Date Generated on Drawing:
N. VENICE, FL 34275
(941) 486-1600

ARCHITECT: A. LYNN MILLER
5076 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 486-1600
REGISTRATION #25334

F: ALUMINUM SLIDING GLASS WINDOW (LM) | 10/05/15
STRAIGHT DOOR EXAMPLE | BY: JENS ROSORIUS
TITLE BLOCK & LAYOUT - JR | 06/08/23
300-760 | 9 OF 18 | MD-760.0 | D

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EXAMPLE 2:

3-PANEL, 2 TRACK, 90° OUTSIDE CORNER - PASSIVE, EXTERIOR MOUNT POCKET, 54" X 84" NOM. PANELS, LAMINATED GLAZING, ANCHOR GROUP C IN CONCRETE SUBSTRATE, PROJECT DESIGN PRESSURE REQUIRED: +50.0/-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 +50.0/-77.1 AT A NOM. PANEL SIZE OF 54" X 84". FROM TABLE 1, SHEET 7, THE DESIGN PRESSURE IS +50/-60 WHICH EXCEEDS THE PROJECT DESIGN PRESSURE REQUIREMENTS.

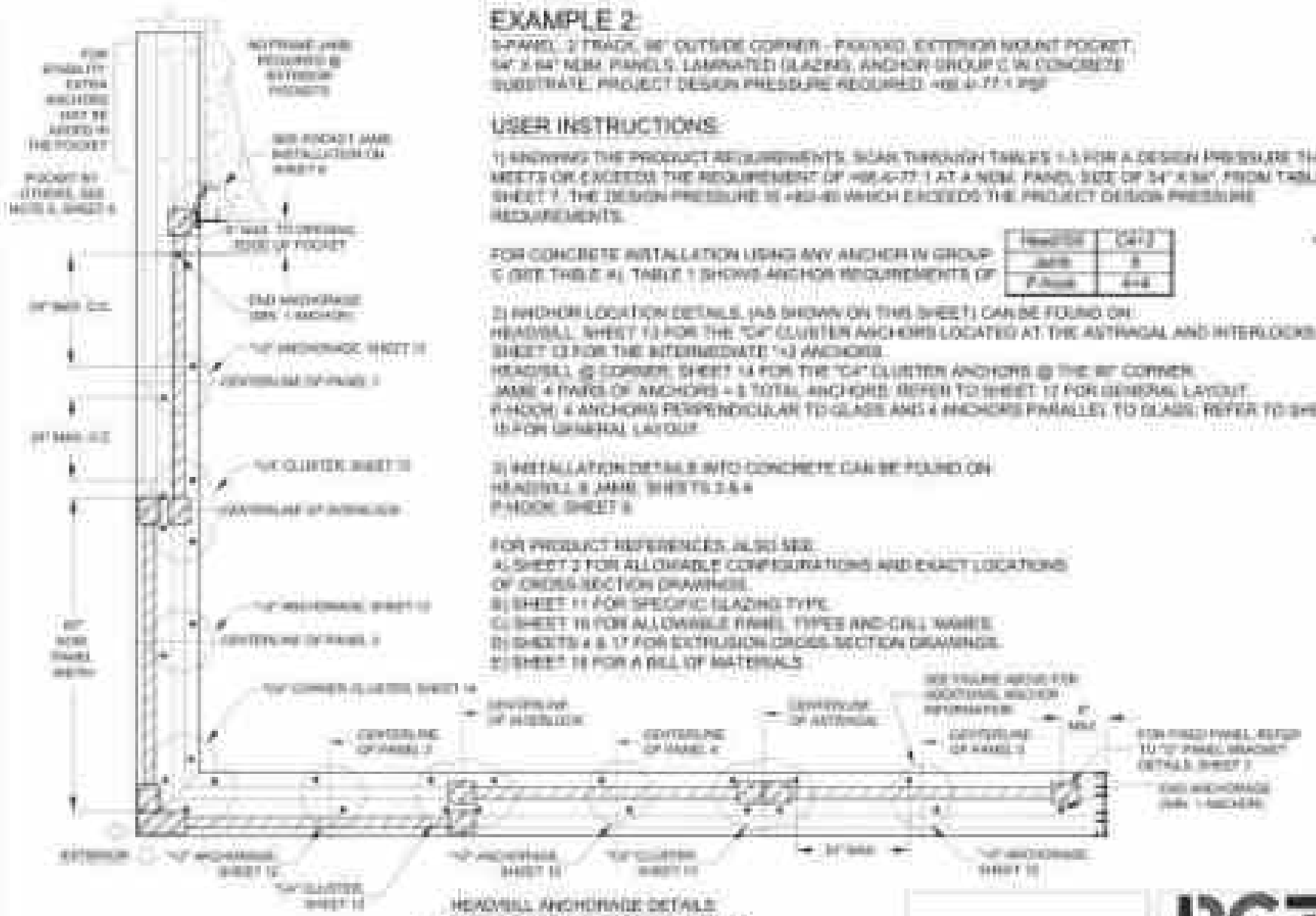
FOR CONCRETE INSTALLATION USING ANY ANCHOR IN GROUP C (SEE TABLE 4), TABLE 1 SHOWS ANCHOR REQUIREMENTS OF:

Headsill	C4T2
Jamb	8
P-Hook	4+4

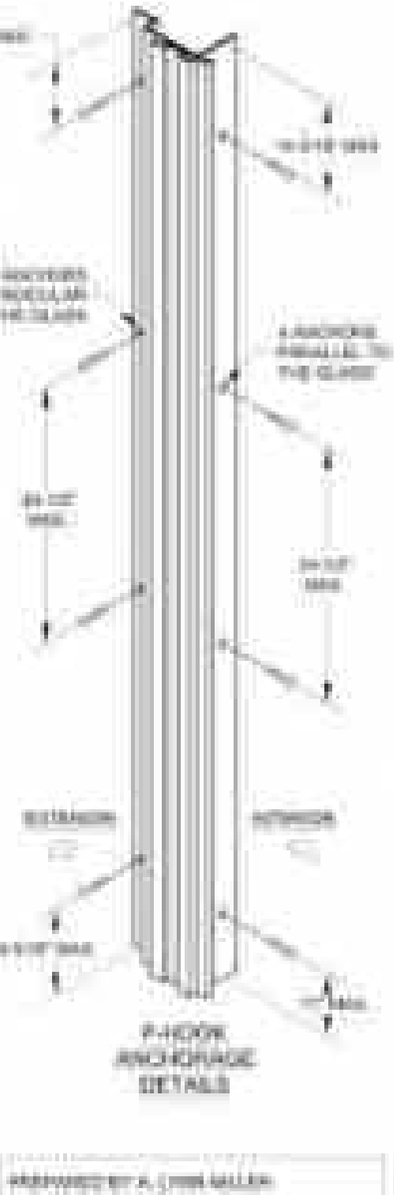
2) ANCHOR LOCATION DETAILS, (AS SHOWN ON THIS SHEET) CAN BE FOUND ON:
HEADSILL: SHEET 13 FOR THE "C4" CLUSTER ANCHORS LOCATED AT THE ASTRAGAL AND INTERLOCKS.
SHEET 13 FOR THE INTERMEDIATE "+3 ANCHORS.
HEADSILL @ CORNER: SHEET 14 FOR THE "C4" CLUSTER ANCHORS @ THE 90° CORNER.
JAMB: 4 PAIRS OF ANCHORS = 8 TOTAL ANCHORS. REFER TO SHEET 17 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:
HEADSILL & JAMB: SHEETS 3 & 4
P-HOOK: SHEET 5

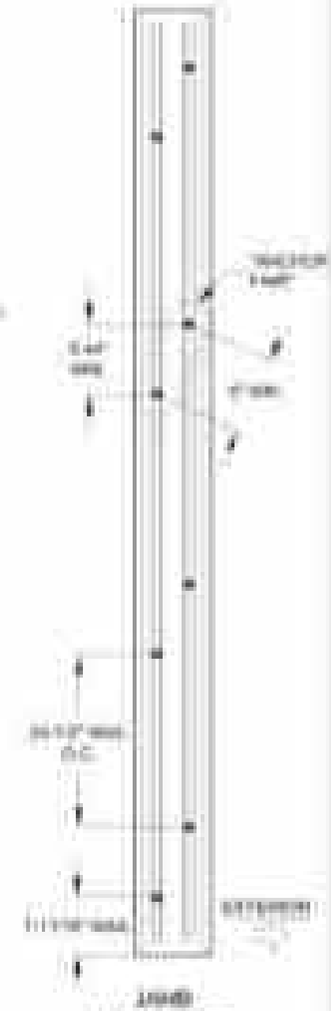
FOR PRODUCT REFERENCES, ALSO SEE:
A) SHEET 2 FOR ALLOWABLE CONFIGURATIONS AND EXACT LOCATIONS OF CROSS-SECTION DRAWINGS.
B) SHEET 11 FOR SPECIFIC GLAZING TYPE.
C) SHEET 16 FOR ALLOWABLE PANEL TYPES AND CALL WIDTHS.
D) SHEETS 4 & 17 FOR EXTRUSION CROSS-SECTION DRAWINGS.
E) SHEET 18 FOR A BILL OF MATERIALS.



HEADSILL ANCHORAGE DETAILS
90° OUTSIDE CORNER, PASSIVE, 3 TRACK



P-HOOK ANCHORAGE DETAILS



JAMB ANCHORAGE DETAILS

END PANEL ANCHOR EXCEPTION, ("+" ANCHORAGE ONLY)



ANCHORS AT THE MIDPOINT OF END PANELS ARE ONLY REQUIRED IF THE O.C. DISTANCE TO THE NEXT ANCHOR CLUSTER IS OVER 24". OTHERWISE ANCHORS ARE NOT REQUIRED AS PER THE FIGURE ABOVE.

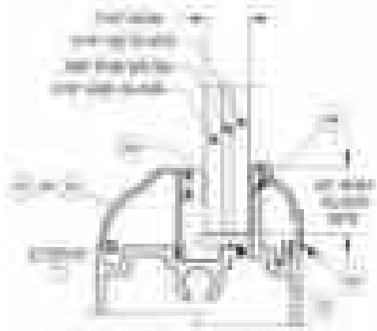
PRODUCT REVISED
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NOA No. 23-0710.08
Expiration Date: 09/02/2027
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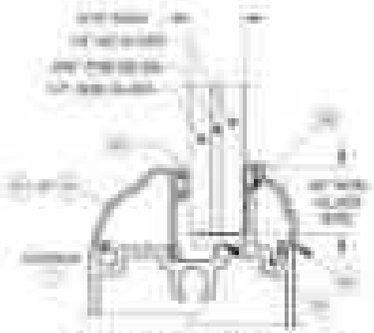
PREPARED BY: A. JOHN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
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REGISTRATION #25539

F: ALUMINUM SLIDING GLASS WINDOW (LM)			10/05/15
CORNER DOOR EXAMPLE		BY: JENS ROSORIUS	
TITLE BLOCK & LAYOUT - JR			06/04/23
300-760	19 OF 19	MD-760.0	D

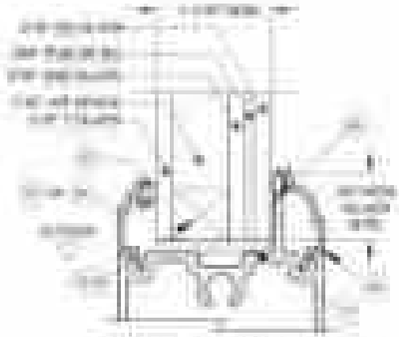
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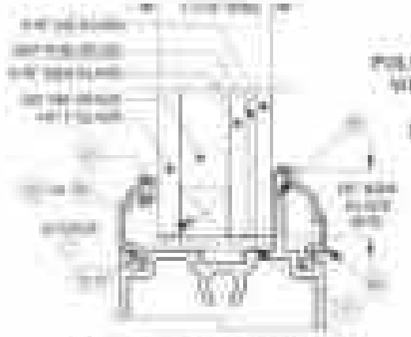
GLASS TYPE 1 (WITH PVB)
GLASS TYPE 5 (WITH SG)



GLASS TYPE 2 (WITH PVB)
GLASS TYPE 6 (WITH SG)



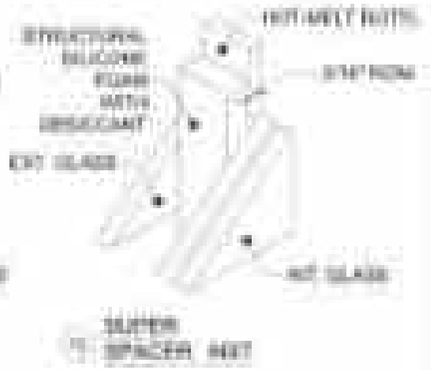
GLASS TYPE 3 (WITH PVB)
GLASS TYPE 9 (WITH SG)



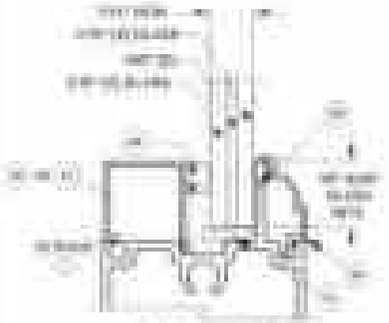
GLASS TYPE 4 (WITH PVB)
GLASS TYPE 10 (WITH SG)



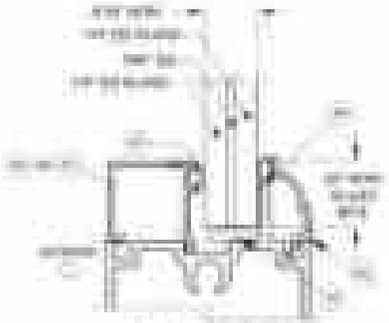
ROOFSPACE 450 TPS



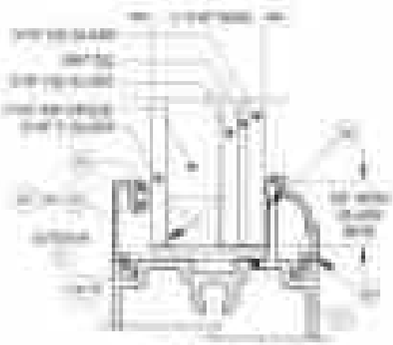
SUPER SPACER 4KIT



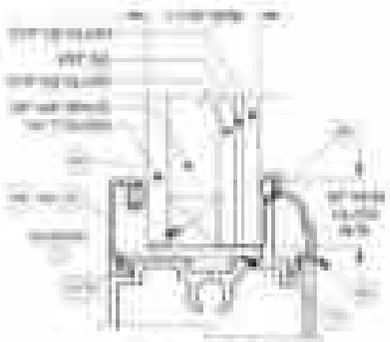
GLASS TYPE 7



GLASS TYPE 8



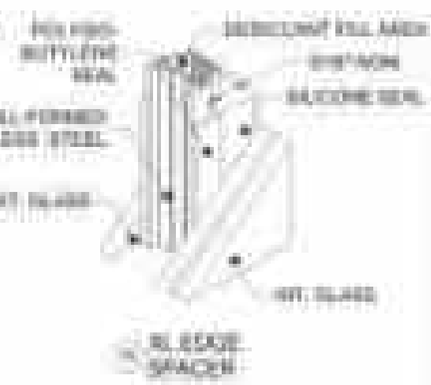
GLASS TYPE 11



GLASS TYPE 12



DURASEAL SPACER



XL EDGE SPACER

TABLE 8: 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	3	7
2	9/16" Laminated: (1) Lite of 1/4" ANN Glass and (1) Lite of 1/4" HS Glass with .090" PVB Interlayer	3	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	3	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	3	7
5	7/16" Laminated: (1) Lite of 3/16" ANN Glass and (1) Lite of 3/16" HS Glass with .090" SG Interlayer	7	7
6	9/16" Laminated: (1) Lite of 1/4" ANN Glass and (1) Lite of 1/4" HS Glass with .090" SG Interlayer	7	7
7	7/16" Laminated: (2) Lite of 3/16" HS Glass with .090" SG Interlayer	3	8
8	9/16" Laminated: (2) Lite 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	7	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	7	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

'ANN' = ANNEALED
'HS' = HEAT STRENGTHENED
'T' = TEMPERED
'PVB' = .090" TROSIFOL® PVB INTERLAYER BY KURARAY AMERICA, INC.
'SG' = .090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.

Part #	Description	Material
72	Kawneering 450 TPS Spacer System	See this Sheet for Materials
73	Quanex Super Spacer xKT with Hot Melt Butyl	
74	Quanex Duraseal Spacer	
75	Cardinal XL Edge Spacer	

REFERENCE TEST REPORTS TTL-4017, Sheet 4 and 5

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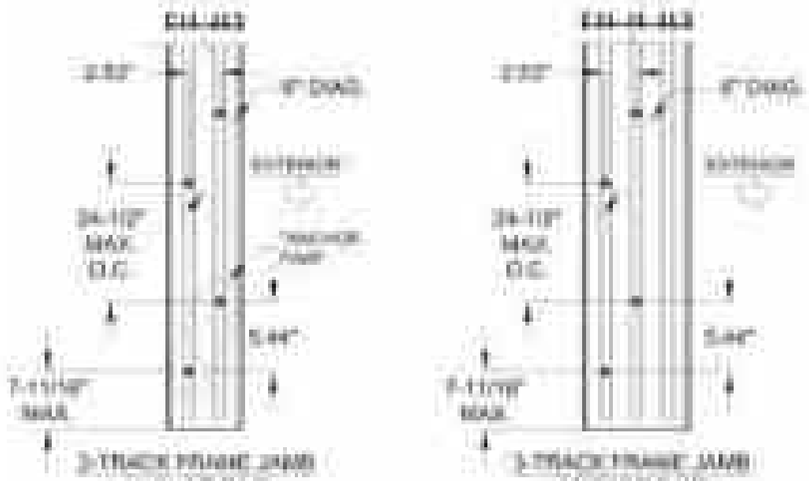
PREPARED BY: A. LYNN MILLER
5676 TECUMSEH DRIVE
N. VENICE, FL 34275
(941) 468-1600
REGISTRATION NUMBER

PRODUCT REVISED
in complying with the Florida Building Code,
Insp. No. 23-0710.02
Expiration Date: 08/22/2027
By: Miami-Dade Product Control

F: ALUMINUM SLIDING GLASS WINDOW (LM) | 10/05/15
GLAZING & SPACER DETAILS | BY: JENS ROSORIUS
TITLE BLOCK & LAYOUT - JR | 06/04/23
300-760 | 11 OF 19 | MD-760.0 | D

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JAMB ANCHOR LAYOUT FOR ALL DOORS:

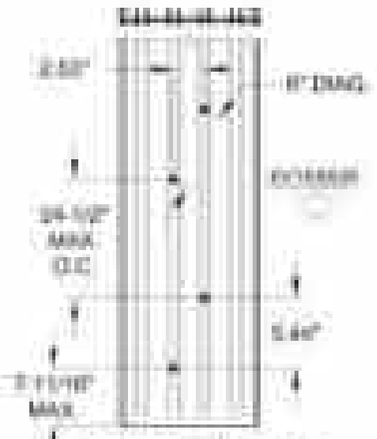


3-TRACK FRAME JAMB ANCHOR PAIR

3-TRACK FRAME JAMB ANCHOR PAIR



3-TRACK FRAME JAMB ANCHOR PAIR (ALTERNATE ANCHOR LOCATION)



4-TRACK FRAME JAMB ANCHOR PAIR

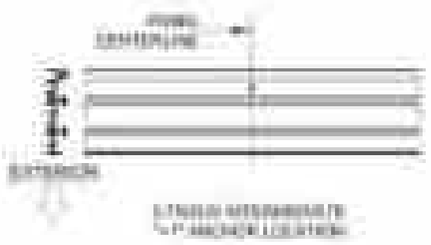
Head/Sill	Qty
Jamb	8
F-type	4+4

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, (SEE TABLES 1-3):



3-TRACK INTERMEDIATE "+" ANCHOR LOCATION



4-TRACK INTERMEDIATE "+" ANCHOR LOCATION
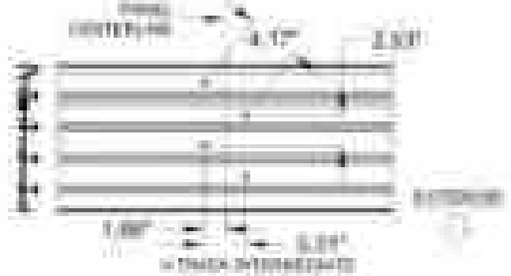


4-TRACK INTERMEDIATE "+" ANCHOR LOCATION (ALSO USE WHERE "+" ANCHOR IS REQUIRED)



3-TRACK INTERMEDIATE "+" ANCHOR LOCATION



4-TRACK INTERMEDIATE "+" ANCHOR LOCATION (ALSO USE WHERE "+" ANCHOR IS REQUIRED)



4-TRACK INTERMEDIATE "+" ANCHOR LOCATION (ALSO USE WHERE "+" ANCHOR IS REQUIRED)



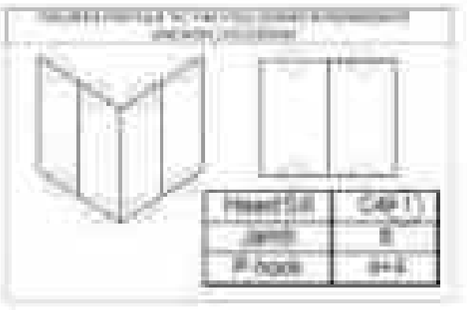
3-TRACK INTERMEDIATE "+" ANCHOR LOCATION



4-TRACK INTERMEDIATE "+" ANCHOR LOCATION



3-TRACK INTERMEDIATE "+" ANCHOR LOCATION



Head/Sill	Qty
Jamb	8
F-type	4+4

NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) SILL SHOWN, HEAD SIMILAR.

PRODUCT REVISED
in complying with the Florida Building Code.
NOA No. 23-0710.08
Expiration Date: 08/22/2027
By: Miami-Dade Product Control

PGT
Product Standard and Special
5200 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 486-1600

PREPARED BY: A. LYNN MILLER
5170 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 486-1600

REGISTRATION #29706

F: ALUMINUM SLIDING GLASS WINDOW (LM)		10/05/15
ANCHOR LAYOUT	BY: JENS ROSORIUS	
TITLE BLOCK & LAYOUT - JR		06/06/23
300-760	12 OF 19	MD-760.0

ANTHONY LYNN MILLER
LICENSE
No. 29706
STATE OF
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E. # 29706

HEAD/SILL CLUSTER ANCHORS (@INTERLOCK & ASTRAGAL) LAYOUT FOR ALL DOORS, (SEE TABLES 1-3):
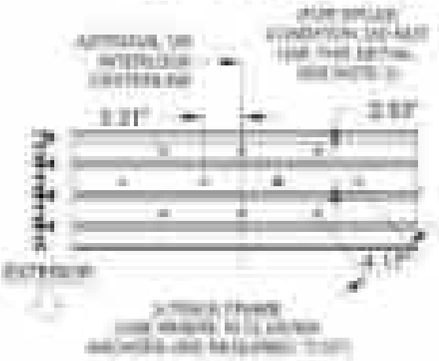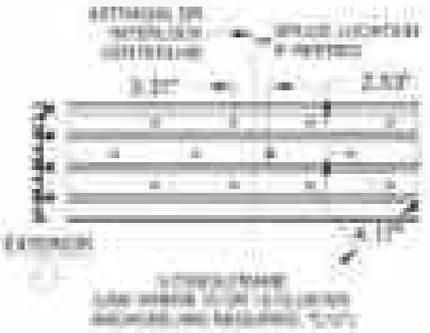






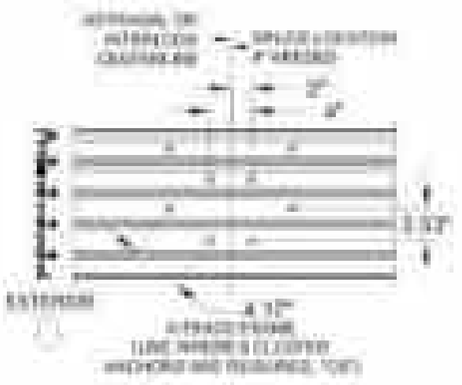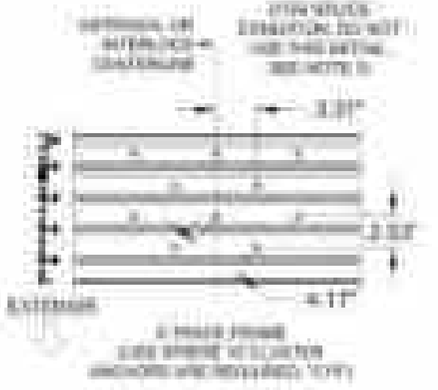
















NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) SILL SHOWN, HEAD SIMILAR.

3) IF A SPLICE IS NOT SHOWN AT A GIVEN CLUSTER QUANTITY, USE THE NEXT HIGHER CLUSTER QUANTITY.

PRODUCT REVISED
in complying with the Florida Building Code.
NOA No. 23-0710.02
Expiration Date: 08/22/2027
By: Miami-Dade Product Control

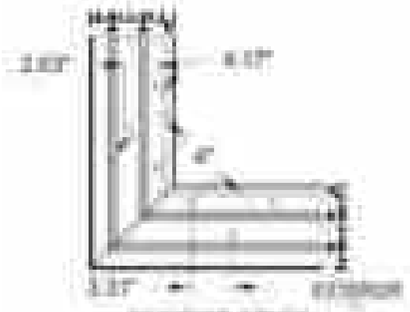
PGT
Product Solutions and Service
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 486-1600

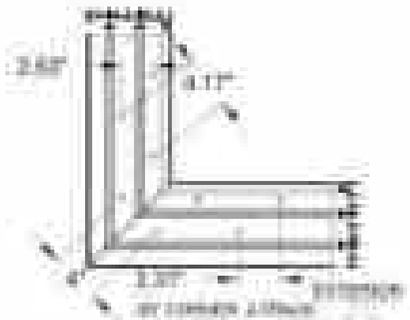
PREPARED BY: A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 486-1600
REGISTRATION NUMBER

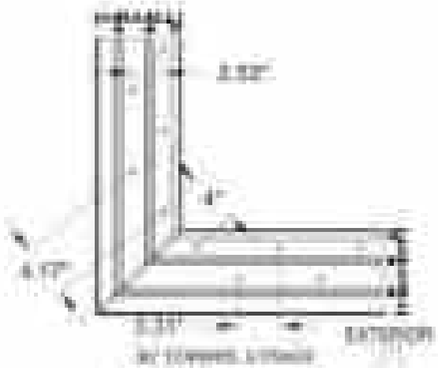
F: ALUMINUM SLIDING GLASS WINDOW (LMI)	10/05/15
ANCHOR LAYOUT	JENNIS ROSORIAGA
TITLE BLOCK & LAYOUT - JR	06/06/23
300-760	13 OF 19 — MD-760.0 — D

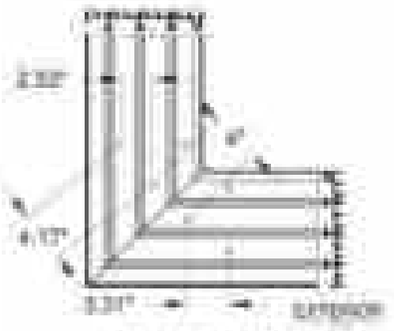
ANTHONY LYNN MILLER
LICENSE
No. 39750
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

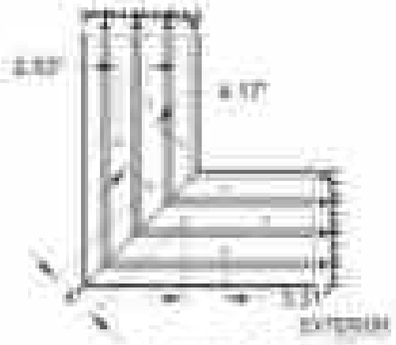
HEAD/SILL 90° OUTSIDE CORNER CLUSTER ANCHORS LAYOUT. (SEE TABLES 1-3): (90° INSIDE CORNER SIMILAR. SEE SHEET 5)

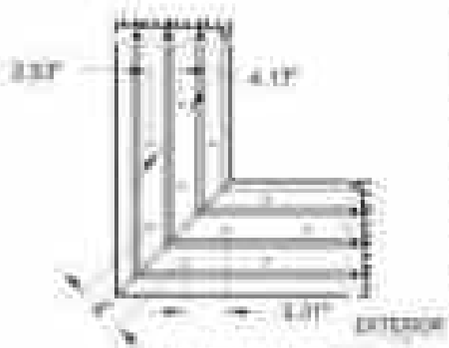


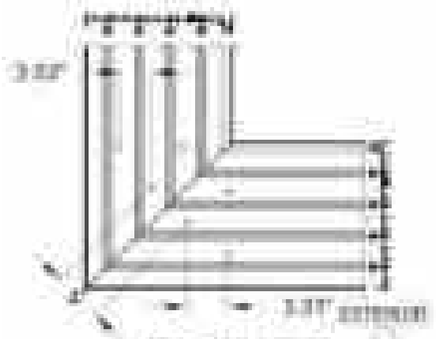


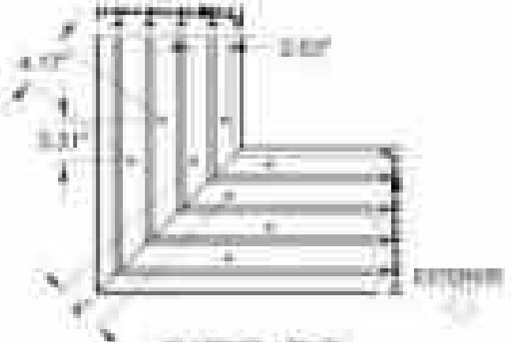


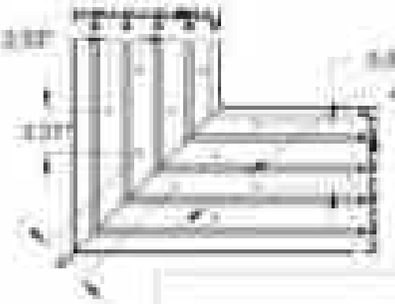












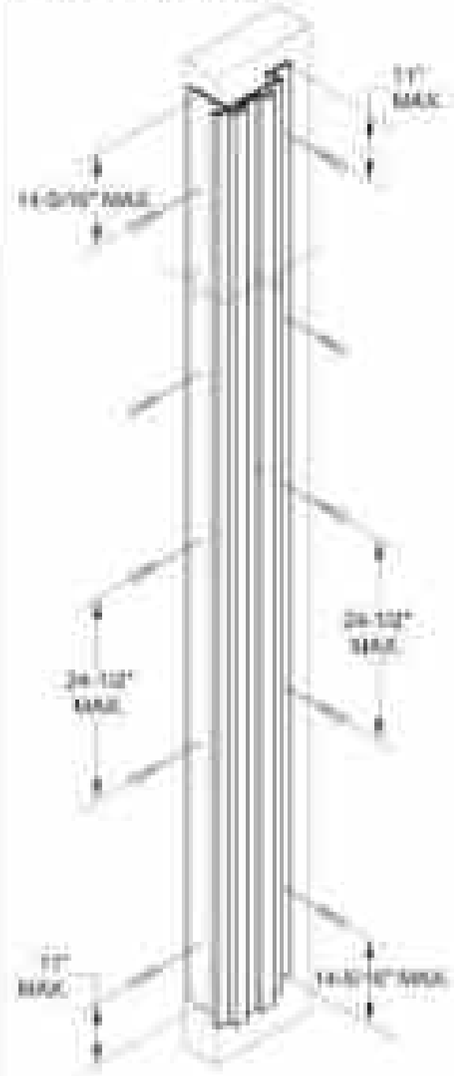
Head/Sill	Qty
Jamb	4
P-Hook	(SEE T1)

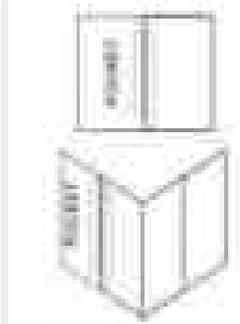
NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE SIMILAR FOR INSIDE AND OUTSIDE CORNER CONFIGURATIONS.

3) SILL SHOWN, HEAD SIMILAR.

P-HOOK ANCHORS LAYOUT FOR ALL DOORS





Head/Sill	Qty
Jamb	4
P-Hook	(SEE T1)

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

PRODUCT REVISED
in complying with the Florida Building Code.
Hist. No. 23-0710.08
Expiration Date 08/08/2027
By: Miami-Dade Product Control

PGT
Product Guidance and Tools
5200 TECHNOLOGY DRIVE
N. VENICE, FL 34275
941-486-8686

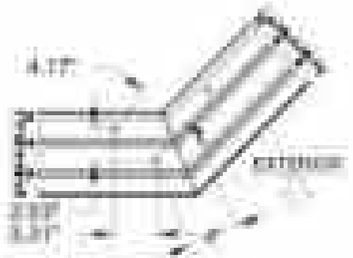
PREPARED BY: A. LYNN MILLER
5200 TECHNOLOGY DRIVE
N. VENICE, FL 34275
941-486-8686

REGISTRATION #29356

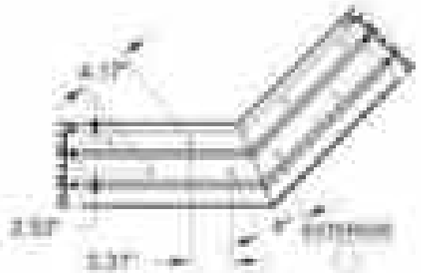
F: ALUMINUM SLIDING GLASS WINDOW (LM)	10/05/15
ANCHOR LAYOUT	JENS ROSORIUS
TITLE BLOCK & LAYOUT - JR	06/08/23
300-769	14 OF 19
MD-790.0	D

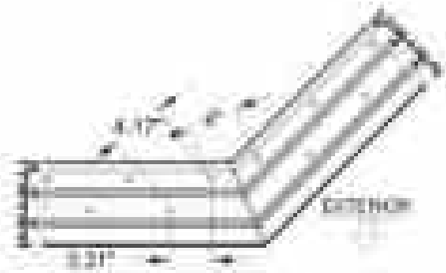
ANTHONY LYNN MILLER
LICENSE
No. 29356
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

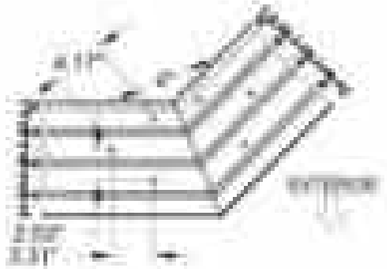
HEAD/SILL 135° CORNER CLUSTER ANCHORS LAYOUT:

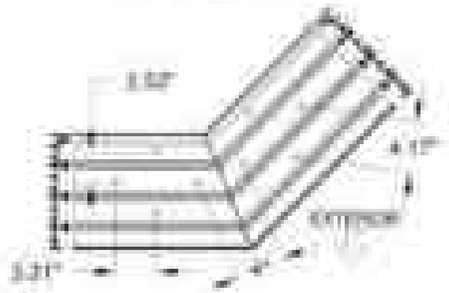


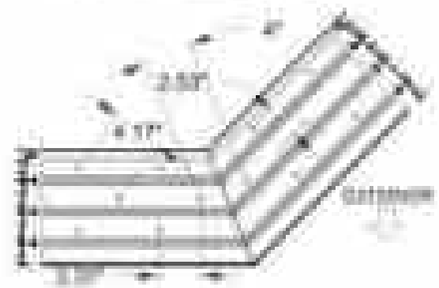


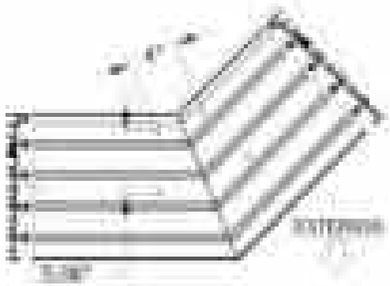


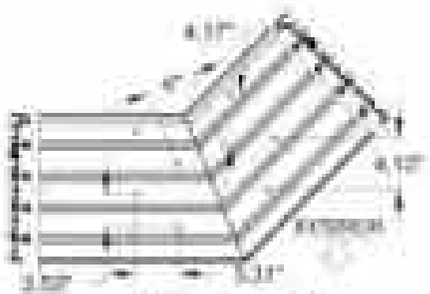


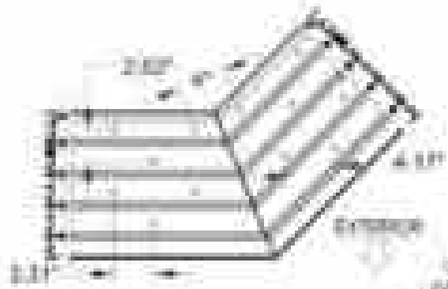














NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE SIMILAR FOR INSIDE AND OUTSIDE CORNER CONFIGURATIONS.

3) SILL SHOWN, HEAD SIMILAR.

PRODUCT REVISED
in compliance with the Florida Building Code.
Hdw. No. 23-0710.08
Expiration Date: 08/08/2027
By: Miami-Dade Product Control

PGT
Product Revolution and Beyond
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 486-8686

PREPARED BY: A. JOHN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 486-8686
REGISTRATION #29336

F: ALUMINUM SLIDING GLASS WINDOW (LM)		10/05/15
ANCHOR LAYOUT	BY: JENS ROSORIUS	
TITLE BLOCK & LAYOUT - JR		06/08/23
300-769	19 OF 19	MD-790.0

ANTHONY LYNN MILLER
LICENSE
No. 39750
STATE OF FLORIDA
PROFESSIONAL ENGINEER

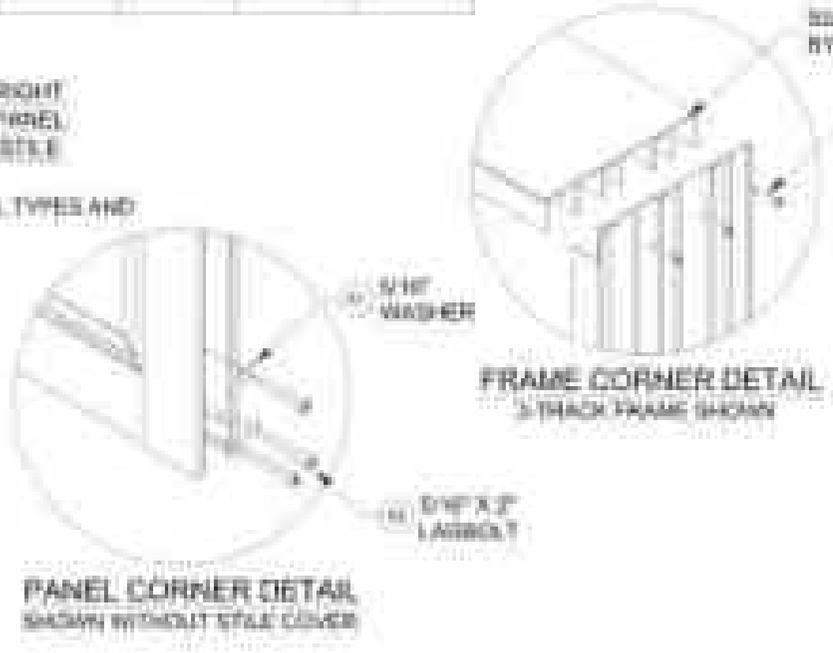
PANEL TYPES														
	E	F		PP	K		L		L	TA		TC	TR	TQ
	B			P	A		C		C	SA		SC	IC	SQ
			I	YR	GR									
	RR	R	Y			S		S		FD	FC			
	D	M	G			J	W	J	W					
				T	U									
		N												
				T	U									
	LR		WR											
	AT	AS		DF										
				CF										
	CT	CS												
	RT	CI												
	QT	QS												

TABLE 1:

Panel	Min. "A"	Min. "C"
E to E Panel Series	12 in	12 in
PD 2 1/2 Series	12 in	11 in
[illegible]	11 in	10 in
[illegible]	11 in	11 in
[illegible]	14 in	14 in
[illegible]	11 in	11 in
[illegible]	20 in	11 in
[illegible]	20 in	14 in
[illegible]	12 in	12 in

LEFT PANEL STYLE — INTERIOR / EXTERIOR — RIGHT PANEL STYLE

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



FRAME CORNER DETAIL
3-TRACK FRAME SHOWN

PANEL CORNER DETAIL
SHOWN WITHOUT STILE COVER

PANEL NOTES:

1. SEE OP-ANCHOR TABLES 1-5, SHEETS 7-9 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"

PRODUCT REVISED
in complying with the Florida Building Code,
NOA No. 23-0710.02
Expiration Date: 08/22/2027
By: Pella Sash Product Control

PGT
Product Excellence and Service
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 486-1600

PREPARED BY: A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 486-1600
REGISTRATION #29336

F ALUMINUM SLIDING GLASS WINDOW (LM)			10/05/15
PANEL TYPES		BY: JENS ROSORIUS	
TITLE BLOCK & LAYOUT - JR			06/04/23
300-760	19 OF 19	MD-760.0	D

ANTHONY LYNN MILLER
LICENSE
No. 29760
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

(a) PANEL STILE

(b) TOP/BOTTOM RAIL - 4 1/2"

(c) TALL BOTTOM RAIL - 8"

(d) 4-TRACK JAMB

(e) 3-TRACK JAMB

(f) 2-TRACK JAMB W/ SCREEN

(g) INTERLOCK TRIM COVER

(h) FRAME SCREW COVER

(i) STILE ADAPTER

(j) INTERLOCK ADAPTER

(k) DOUBLE INTERLOCK ADAPTER

(l) SNAP RAIL ADAPTER

(m) INTERIOR BEAD

(n) CORNER BACKER PLATE

(o) SILL MOUNTING STRIP

(p) ASTRAGAL BACKER PLATE

(q) INTERLOCK REINFORCEMENT

(r) P-HOOK

(s) 10° PANEL BRACKET

(t) EXT SILL COVER W/SCREEN

(u) 4MT-EXT SILL COVER

(v) 4MD-SILL COVER

(w) 4-TRACK SINGLE HEAD

(x) P-HOOK MOUNT

(y) ASTRAGAL

(z) 90° CORNER LOCK ASTRAGAL

(aa) 90° CORNER RECEIVER ASTRAGAL

(ab) 135° CORNER LOCK ASTRAGAL

(ac) 135° CORNER RECEIVER ASTRAGAL

(ad) 3-TRACK SINGLE HEAD

(ae) 2-TRACK SILL

(af) SCREEN TRACK ADDON

(ag) LMR GLIDE BEAD

(ah) 1-1/16" GLIDE BEAD

(ai) LMR SQUARE BEAD

(aj) 1-1/16" SQUARE BEAD

(ak) 2-TRACK SINGLE HEAD W/ SCREEN

(al) 3-TRACK SILL

(am) 3-TRACK SINGLE HEAD

(an) 4-TRACK SILL ASSEMBLY

ENSINGER TECATHERM XHP INSULBAR THERMAL BARRIER PLASTIC MATERIAL (PRE-ASSEMBLED)

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

PRODUCT REVISED
In compliance with the Florida Building Code
NOA No. 23-0710.08
Expiration Date 08/02/2027
By: Miami-Dade Product Control

PGT
Product Standard and Detail
5200 TECHNOLOGY DRIVE
N. VENICE, FL 34275
941-486-1600

PREPARED BY: A. LYNN MILLER
5676 TECHNOLOGY DRIVE
N. VENICE, FL 34275
941) 486-1600

REGISTRATION ADDON

4" ALUMINUM SLIDING GLASS WINDOW (LM)		10/05/15
EXTRUSIONS	BY: JENS ROSORIUS	
TITLE BLOCK & LAYOUT - JR		06/04/23
300-769	17 OF 19	MD-790.0	D

ANTHONY LYNN MILLER
LICENSE
No. 39755
STATE OF FLORIDA
PROFESSIONAL ENGINEER
5676 TECHNOLOGY DRIVE
N. VENICE, FL 34275

TABLE E

Bill of Material

#	Part #	Description	Material
1	[illegible]	2" Track Jamb	[illegible]
2	[illegible]	2" Track Jamb with Screen Rail	[illegible]
3	[illegible]	3" Track Jamb	[illegible]
4	[illegible]	4" Track Jamb	[illegible]
5	[illegible]	2" Track Sill	[illegible]
6	[illegible]	3" Track Sill	[illegible]
7	[illegible]	4" Track Sill	[illegible]
8	[illegible]	2" Track Head	[illegible]
9	[illegible]	2" Track Head with Screen Rail	[illegible]
10	[illegible]	3" Track Head	[illegible]
11	[illegible]	4" Track Head	[illegible]
12	[illegible]	Top Rail - 1-1/2"	[illegible]
13	[illegible]	Sill Rail - 2-1/4"	[illegible]
14	[illegible]	Sill Rail - 1-1/2"	[illegible]
15	[illegible]	Sill Rail - 4-1/2"	[illegible]
17	[illegible]	Ext. Sill Cover with Screen Rail	[illegible]
18	[illegible]	Int. Fin. Sill Cover	[illegible]
19	[illegible]	Mull Sill Cover	[illegible]
20	[illegible]	Jamb Mounting Strip/Anchor Plate	[illegible]
21	[illegible]	Panel Stop	[illegible]
22	[illegible]	Top/Bottom Rail	[illegible]
23	[illegible]	8" Tall Bumper Rail	[illegible]
24	[illegible]	Jamb Adaptor	[illegible]
25	[illegible]	Interlock Adaptor (Engish)	[illegible]
26	[illegible]	Interlock Adaptor (Ground)	[illegible]
27	[illegible]	Trig Strap Rail Adaptor	[illegible]
28	[illegible]	Aluminum Backup Plate	[illegible]
29	[illegible]	Interlock Reinforcement	[illegible]
30	[illegible]	Interlock Screw Cover with T-slot	[illegible]
31	[illegible]	Frame Bottom Cover	[illegible]
32	[illegible]	Astragal	[illegible]
33	[illegible]	90° Corner Lock Adaptor	[illegible]
34	[illegible]	90° Corner Astragal Receiver	[illegible]
35	[illegible]	135° Corner Astragal	[illegible]
36	[illegible]	135° Parallel Corner Mount	[illegible]
37	[illegible]	90° Corner Astragal Backup Plate	[illegible]
38	[illegible]	Parallel Door Fin Hook	[illegible]
39	[illegible]	Parallel Door 9" Astral Mount	[illegible]
40	[illegible]	Screen Frame Adaptor (SC)	[illegible]
41	[illegible]	Screen Frame Adaptor (Head)	[illegible]
42	[illegible]	Screen Track Adaptor	[illegible]

TABLE E CONTINUED

Bill of Material

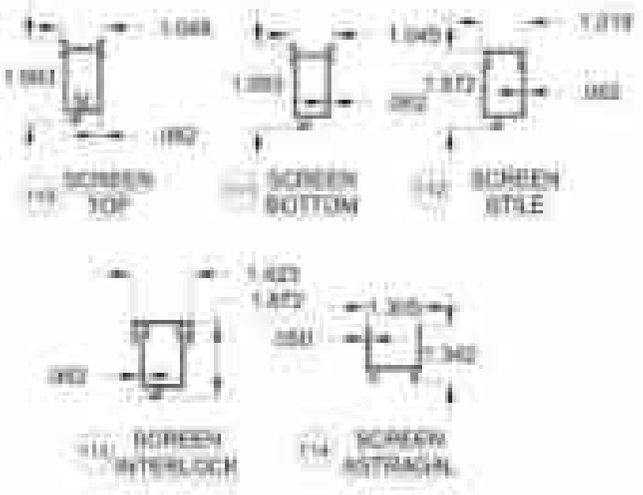
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52	[illegible]	1-1/16" OG Astral	[illegible]
53	[illegible]	1-1/16" OG Astral	[illegible]
54	[illegible]	1-1/16" Square Astral	[illegible]
55	[illegible]	1-1/16" Square Astral	[illegible]
56	[illegible]	1-1/16" Square Astral	[illegible]
57	[illegible]	Vinyl Glazing Bulb	
58	[illegible]	Foam Astral Glazing Bulb (7/16" glazing only)	
59		Dow 995 Silicone Weatherproofing Sealant	Silicone
70	[illegible]	Setting Block - 1" x 4" x 1/8" (SDL 90+/- 0.5mm)	EPDM
71	[illegible]	Setting Block - 1" x 4" x 1/16" (SDL 90+/- 0.5mm)	EPDM
72		Astral Spacer with anti-slip tape (Vinyl)	Polyethylene
73		Corbels	Polyethylene
74		Cardboard Edge Spacer	Composite
80	[illegible]	1/16 X 3/4" RH, RH, SBS @ 6" max	Alloy
81		#8 X 1/2" PH, FH, SMS @ Single Interlock	Alloy
82		#8 X 3/4" PH, FH, SMS @ Double Interlock	Alloy
83	[illegible]	1/4-14 X 1-1/2" PH, PH, SMS @ Astragal	Alloy
84	[illegible]	#8 X 1" FH, Quad, SMS @ Main Jamb	Alloy
87	[illegible]	Jamb Bumper	
88	[illegible]	#8 X 3/4" PH, FH, SMS	Alloy
97	[illegible]	4 Mitre Corner Clips	
98	[illegible]	#8 X 3/4" PH, FH, SMS	Steel
99	[illegible]	1/2" Fixed Weather - 12" long	
90		#8 X 3/4" PH, FH, SMS @ Bracket to Jamb	Alloy
91		#8 X 1/4" PH, FH, SMS @ Bracket to Frame	Alloy
92	[illegible]	Handle Kit	Mixed Zinc
93	[illegible]	Tamco Marine Lock w/long Tail plate	Alloy
94	[illegible]	Tamco Multi-point Lock w/pocket Strike plate	Alloy
95		#8 X 1" FH, SS	Steel
96		#10-32 U-Nut	Steel
97		1" Mitred Bumper, 1/2" Corner & Straight	Alloy
98	[illegible]	3/4" Mitred Bumper, 90° Corner	Alloy
99		#10 X 1-1/2" PH, FH, SMS @ Keeper	Alloy
101	[illegible]	10-32 X 1" PH, SS, AB	Alloy

NOTES:
1. ITEMS # 42, 46-49, 58-60, 62, 66, 76-79, 81 & 100-106 ARE
NOT USED WITH AND NOT PART OF THIS APPROVAL

TABLE E CONTINUED

Bill of Material

#	Part #	Description	Material
100	[illegible]	Screen Top Rail	[illegible]
101	[illegible]	Screen Bottom Rail	[illegible]
102	[illegible]	Screen Side Rail/Locking	[illegible]
103	[illegible]	Screen Meeting Astragal	[illegible]
104	[illegible]	Screen Astragal	[illegible]
105	[illegible]	Fiber	Nylon
106	[illegible]	Roller	SS
107		1/4" X 1" MS @ Top Rail	SS
108		1/4" X 1-1/2" MS @ Bottom Rail	SS
109		Screen Mesh	Fiber
120	[illegible]	Screen Lock Keeper	Steel
121	[illegible]	#10 X 3/4" PH, PH, SMS @ Keeper	SS
122	[illegible]	3/8" X 1/8" Weatherstrip	
123	[illegible]	Screen Spline - 180°	Vinyl
124		Screen Cloth	Fiberglass



PGT

PRODUCT REVISED
to comply with the Florida Building Code.
NOA No. 23-0710.08
Expiration Date 05/01/2027
By [illegible]

PREPARED BY: A. LYNN MILLER
[illegible]
(941) 486-8600
REGISTRATION #30709

F: ALUMINUM SLIDING GLASS WINDOW (LM) | 10/05/15
F: PARTS LIST/BOM | A: JENS ROSORIUS
TITLE BLOCK & LAYOUT - JR | 06/06/23
300-700 | 19 OF 19 | MD-790.0 | D

A. LYNN MILLER
LICENSE
No. 30709
STATE OF
FLORIDA
PROFESSIONAL ENGINEER