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
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-770" Aluminum Sliding Glass Door w / 90° & 135° corners – L.M.I.

APPROVAL DOCUMENT: Drawing No. **PGT0130**, titled "Series 770 Alum. SGD - LM Impact", sheets 1 through 22 of 22, dated 10/10/14, with revision C dated 04/05/17, 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# 16-0629.06** 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 **Jorge M. Plasencia, P.E.**

MIAMI-DADE COUNTY APPROVED

9/18/17

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under NOA No. 14-0123.10)
2. Drawing No. **PGT0130**, titled "Series 770 Alum. SGD – LM Impact", sheets 1 through 22 of 22, dated 10/10/14, with revision C dated 04/05/17, 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, 06/17/16 and 06/20/16, all signed & sealed by Idalmis Ortega, P.E.
   (Submitted under NOA No. 16-0629.06)
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 sliding glass door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7554**, dated 11/01/13, signed and sealed by Marlin D. Brinson, P.E.
   (Submitted under NOA No. 14-0123.10)
3. Test reports on:1) Air Infiltration Test, per TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per TAS 202-94
   3) Water Resistance Test, per TAS 202-94.
   4) Forced Entry Test per FBC 2411.3.2.1 and TAS202-94.
   5) Large Missile Impact Test, per TAS 201-94
   6) Cyclic Wind Pressure Loading, per TAS 203-94
   along with marked-up drawings and installation diagram of aluminum Sliding Glass Doors, prepared by Fenestration Testing Laboratory, Inc., Test Report No **FTL-5980, FTL-5993, FTL-6036, FTL-6001, FTL-6014, FTL-6015, FTL-6017, FTL-6023, FTL-6024, FTL-6025, FTL-6028, FTL-6031, FTL-6033 and FTL-6036** dated 08/10/09, all signed and sealed by Julio Gonzales, P.E.
   Note: The test reports No. **FTL 5980, FTL 6001** and **FTL 6015** have been revised and reissued on 12/29/09, signed and sealed by Julio Gonzales, P.E.
   (Submitted under NOA No. 09-0826.10)

Jorge M. Plasencia, P.E.
Product Control Unit Supervisor
NOA No. 17-0420.12
Expiration Date: February 17, 2020
Approval Date: September 28, 2017

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

5. Additional Reference Fixed Window Test Report No. **FTL-7897** (Cardinal spacer), per TAS 201, 202 & 203-94, issued by Fenestration Testing Laboratory, Inc. ***(Submitted under NOA No. 15-0430.08)***

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-5th Edition (2014)** and **FBC-6th Edition (2017)**, dated 04/18/17 and revised on 08/10/17, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
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. **16-1117.01** issued to **Kuraray America, Inc.** for their **"Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers"** dated 01/19/17, expiring on 07/08/19.
2. 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 with **FBC-5th Edition (2014)** and **FBC-6th Edition (2017)**, dated 08/10/17, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of no financial interest, dated 04/18/17, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
3. Test proposal No. **16-0152** dated 03/09/16 approved by RER.
4. Lab compliance as part of the above referenced Test Report No(s) **FTL-8717, FTL-8970** and **FTL-8968**.

G. OTHERS

1. Notice of Acceptance No. **16-0629.06**, issued to PGT Industries, Inc. for their Series "SGD-770" Aluminum Sliding Glass Doors w/90° &135° corners - L.M.I. approved on 08/04/16 and expiring on 02/17/20.

Jorge M. Plasencia, P.E.
Product Control Unit Supervisor
NOA No. 17-0420.12
Expiration Date: February 17, 2020
Approval Date: September 28, 2017

SERIES 770, IMPACT RESISTANT SLIDING GLASS DOOR INCLUDING POCKETS & 90°/135° CORNERS

GENERAL NOTES

1) GLAZING TYPE OPTIONS: SEE TABLE B, THIS SHEET & GLAZING DETAILS ON SHEETS 4 & 5.
2) DESIGN PRESSURES:
   A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E1300.
   B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E1300.
   C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.
3) 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. FOR ANCHORAGE DETAILS SEE SHEETS 6-14.
4) SHUTTERS ARE NOT REQUIRED PER FBC REQUIREMENTS, AS APPLICABLE.
5) INSTALLATION SCREWS, FRAME SPLICES, FRAME AND PANEL CORNERS TO BE SEALED WITH NARROW JOINT SEALANT.
6) REFERENCES: ELCO ULTRACON, CRETEFLEX AND AGGREGATOR NOA'S, ANSI/AF&PA NDS FOR WOOD CONSTRUCTION AND ADM, ALUMINUM DESIGN MANUAL.
7) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
8) DOOR SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE, AS APPLICABLE.
9) TEST REPORTS: FTL-5980, FTL-5993, FTL-6001, FTL-6014, FTL-6015, FTL-6017, FTL-6022, FTL-6023, FTL-6024, FTL-6025, FTL-6028, FTL-6031, FTL-6033, FTL-6036 AND FTL-7554

TABLE B, SEE DETAILS ON SHEETS 4 & 5

Glass Type	Description (Listed from Exterior to Interior)
G3	7/16" Laminated: (2) Lites of 3/16" HS Glass with .090" PVB Interlayer
G3A	9/16" Laminated: (2) Lites of 1/4" HS Glass with .090" PVB Interlayer
G4	7/16" Laminated: (2) Lites of 3/16" HS Glass with .090" SG Interlayer
G4A	9/16" Laminated: (2) Lites of 1/4" HS Glass with .090" SG Interlayer
G5	1" Laminated I.G.: 3/16" T Exterior Cap + 3/8" Air Space + 7/16" Laminated; (2) Lites of 3/16" HS Glass with .090" PVB Interlayer
G5A	1" Laminated I.G.: 1/4" T Exterior Cap + 5/16" Air Space + 7/16" Laminated; (2) Lites of 3/16" HS Glass with .090" PVB Interlayer
G6	1" Laminated I.G.: 3/16" T Exterior Cap + 3/8" Air Space + 7/16" Laminated; (2) Lites of 3/16" HS Glass with .090" SG Interlayer
G6A	1" Laminated I.G.: 1/4" T Exterior Cap + 5/16" Air Space + 7/16" Laminated; (2) Lites of 3/16" HS Glass with .090" SG Interlayer
G7	7/16" Laminated: (2) Lites of 3/16" ANN Glass with .090" SG Interlayer
G7A	9/16" Laminated: (2) Lites of 1/4" ANN Glass with .090" SG Interlayer
G8	1" Laminated I.G.: 3/16" T Exterior Cap + 3/8" Air Space + 7/16" Laminated; (2) Lites of 3/16" ANN Glass with .090" SG Interlayer
G8A	1" Laminated I.G.: 1/4" T Exterior Cap + 5/16" Air Space + 7/16" Laminated; (2) Lites of 3/16" ANN Glass with .090" SG Interlayer

"ANN" = ANNEALED
"HS" = HEAT STRENGTHENED
"T" = TEMPERED
"PVB" = .090" TROSIFOL® PVB BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS® BY KURARAY AMERICA, INC.

DESIGN PRESSURE RATING	IMPACT RATING
SEE TABLES 1, 2 & 3 ON SHEETS 6, 7 & 8	RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE

CODES / STANDARDS USED:

- 2017 FLORIDA BUILDING CODE (FBC), 6TH EDITION
- 2014 FLORIDA BUILDING CODE (FBC), 5TH EDITION
- ASTM E1300-09
- ANSI/AF&PA NDS-2015 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2015
- AISI S100-12
- AISC 360-10

GENERAL NOTES..... 1
EXAMPLE CONFIGS.....2-3
GLAZING DETAILS..... 4,5
ANCHORAGE.....6-14
DESIGN PRESSURES..... 6-8
INSTALL DETAILS.....12-14
ELEVATIONS..... 15,16
PANEL / SILL TYPES.....17
CROSS SECTIONS.....18,19
PARTS LIST..... 20
EXTRUSIONS..... 21,22

TABLE A:

Anchor Group	Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. O.C. Distance	Min. Embedment or Metal Thickness
A	#12 18-8 SMS, (F_y=60 ksi, F_u= 95 ksi) #12 410 SS SMS, (F_y= 90 ksi, F_u= 110 ksi)	All	Southern Pine (SG = 0.55)	9/16"	7/8"	1-3/8"
			6063-T5 Aluminum	3/8"	9/16"	0.090"
			A36 Steel	3/8"	9/16"	0.050"
			Gr. 33 Steel Stud	3/8"	9/16"	0.045" (18 Ga)
	1/4" Elco Aggre-Gator® F_y=57 ksi, F_u=96 ksi	All	Concrete (min. 2.22 ksi)	1-1/2"	3"	1-3/8"
		Jamb / P-hook	Filled Block (ASTM C90)	2"	3"	2"
		Jamb / P-hook	Hollow Block (ASTM C90)	2"	3"	1-1/4"
		All	Southern Pine (SG = 0.55)	1"	1"	1-3/8"
B	#12 Steel SMS (Gr. 5) (min. of 3 threads beyond metal substrate)	All	Southern Pine (SG = 0.55)	9/16"	7/8"	1-3/8"
			6063-T5 Aluminum	3/8"	9/16"	0.090"
			A36 Steel	3/8"	9/16"	0.050"
			Gr. 33 Steel Stud	3/8"	9/16"	0.045" (18 Ga)
C	1/4" Elco UltraCon® F_y=155 ksi, F_u=177 ksi	All	Concrete (min. 2.85 ksi)	1"	4"	1-3/8"
		Jamb / P-hook	Hollow Block (ASTM C90)	1"	6"	1-1/4"
D	1/4" Elco UltraCon® F_y=155 ksi, F_u= 177 ksi	All	Concrete (min. 2.85 ksi)	2-1/2"	4"	1-3/8"
		Jamb / P-hook	Filled Block (ASTM C90)	2-1/2"	4"	1-3/4"
		Jamb / P-hook	Hollow Block (ASTM C90)	2-1/2"	6"	1-1/4"
	1/4" 410 SS Elco CreteFlex® F_y=127.4 ksi, F_u= 189.7 ksi	Head / Sill	Concrete (min. 3.35 ksi)	1"	4"	1-3/4"
		Jamb / P-hook	Concrete (min. 3.35 ksi)	1"	6"	1-3/4"
		Jamb / P-hook	Hollow Block (ASTM C90)	2-1/2"	6"	1-1/4"
		All	Southern Pine (SG = 0.55)	1"	1"	1-3/8"

1) WHERE SUBSTRATE CONDITIONS REQUIRE ANCHORAGE 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 STEEL STUDS, MIN. FU = 45 KSI, MIN FY = 33 KSI.
4) FILLED BLOCK VALUES MAY ALSO BE USED IN HOLLOW BLOCK APPLICATIONS.
5) ANCHORS MUST BE OF SUFFICIENT LENGTH SO THAT A MINIMUM OF 3 THREADS EXTEND BEYOND METAL SUBSTRATE.

ANCHOR NOTES

1) FOR CONCRETE/CMU SUBSTRATE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ANCHORS. SEE TABLE A ON THIS SHEET FOR EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS.

2) FOR OTHER SUBSTRATE APPLICATIONS SEE TABLE A, THIS SHEET.

3) 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. 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.

4) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

5) 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.

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 17-0420.12
Expiration Date 02/17/2020
By Miami–Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
4/18/17
A. LYNN MILLER, P.E.
P.E.# 58705

Revsd By:	Date:	Revisions:	
JR	04/05/17	C	UPDATED TO FBC 2017, REVISED TABLES 1, 2, 3 & A
Drawn By: JR	Date: 10/10/14	Checked By:	Date:

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

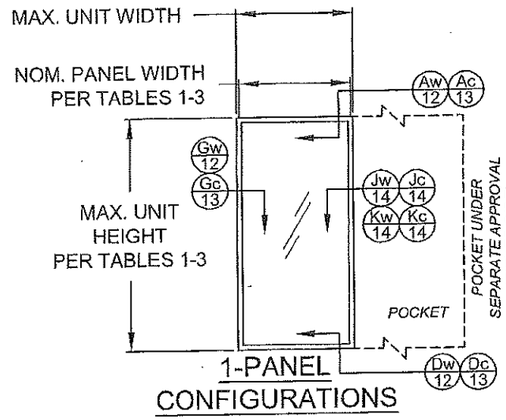
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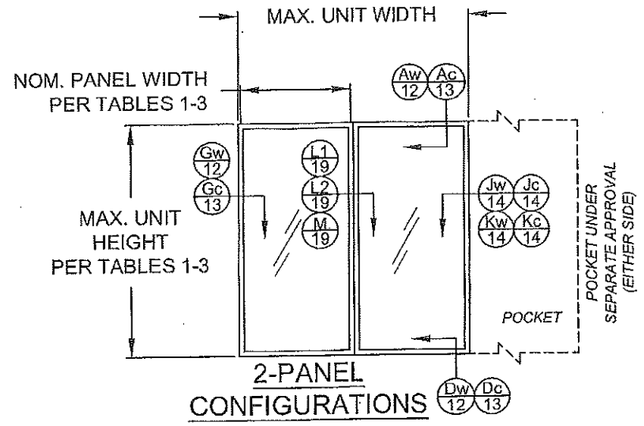
Description: GENERAL NOTES AND MAP
Title: SERIES 770 ALUM. SGD - LM IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD-770	NTS	1 of 22	PGT0130	C

EXAMPLE CONFIGURATIONS



1-PANEL CONFIGURATIONS



2-PANEL CONFIGURATIONS

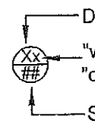
CONFIGURATIONS NOTES:

1) ALL CONFIGURATIONS SHOWN ARE ALSO AVAILABLE AS POCKET CONFIGURATIONS AT EITHER OR BOTH JAMB LOCATIONS USING DETAIL "Jw", "Jc", "Kw" OR "Kc" INSTALLATION. EXAMPLE: 4-PANEL XXXX IN POCKET (p) CONFIGURATION CAN BE pXXXXp, pXXXX OR XXXXp. OXXX IN POCKET CONFIGURATION CAN BE OXXXp.

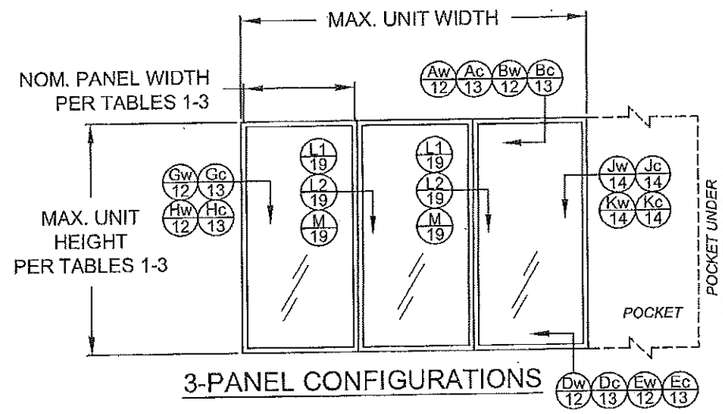
2) 90° & 135° CORNER CONFIGURATIONS CAN BE A COMBINATION OF ANY 2 STRAIGHT CONFIGURATIONS.

3) FOR NOM. PANEL WIDTH, SEE TABLES 1-3.

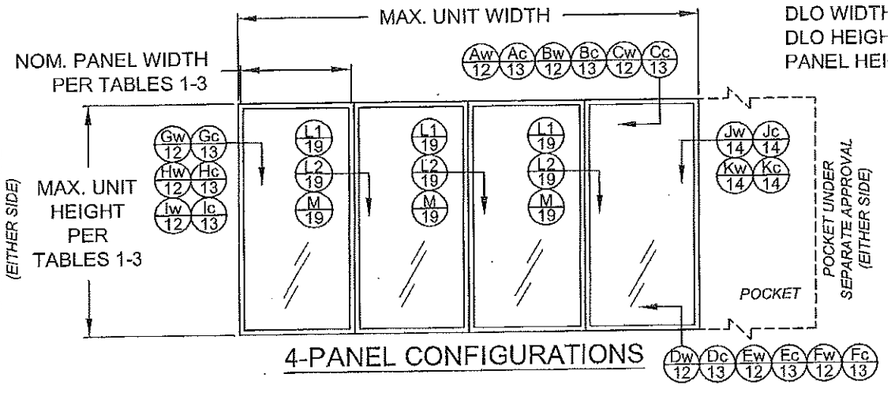
"X" = OPERABLE PANEL,
"O" = INOPERABLE PANEL,
"p" = POCKET



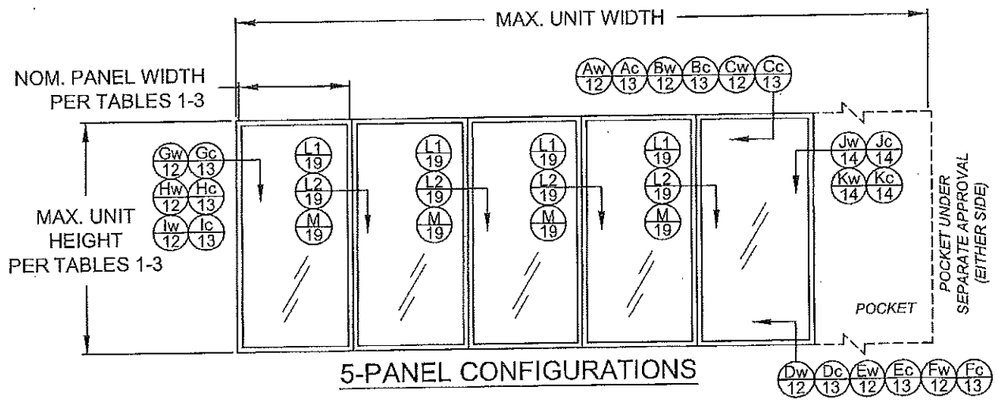
DLO WIDTH = NOM. PANEL WIDTH - 7"
DLO HEIGHT = DOOR UNIT HEIGHT - 10.125"
PANEL HEIGHT = DOOR UNIT HEIGHT - 1.866"



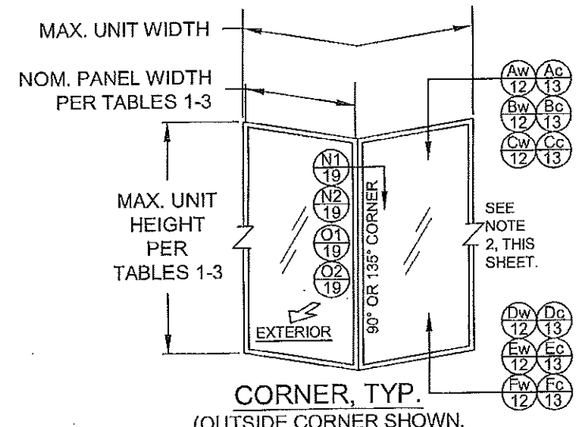
3-PANEL CONFIGURATIONS



4-PANEL CONFIGURATIONS



5-PANEL CONFIGURATIONS



CORNER, TYP.
(OUTSIDE CORNER SHOWN, INSIDE CORNER SIMILAR)

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0420.12
Expiration Date 02/17/2020
By
Miami-Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
4/18/17
A. LYNN MILLER, P.E.
P.E.# 58705

Revsd By:	Date:	Revisions:	
JR	04/05/17	C	NO CHANGES THIS SHEET.
Drwn By: JR	Date: 10/10/14	Checked By:	Date:

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
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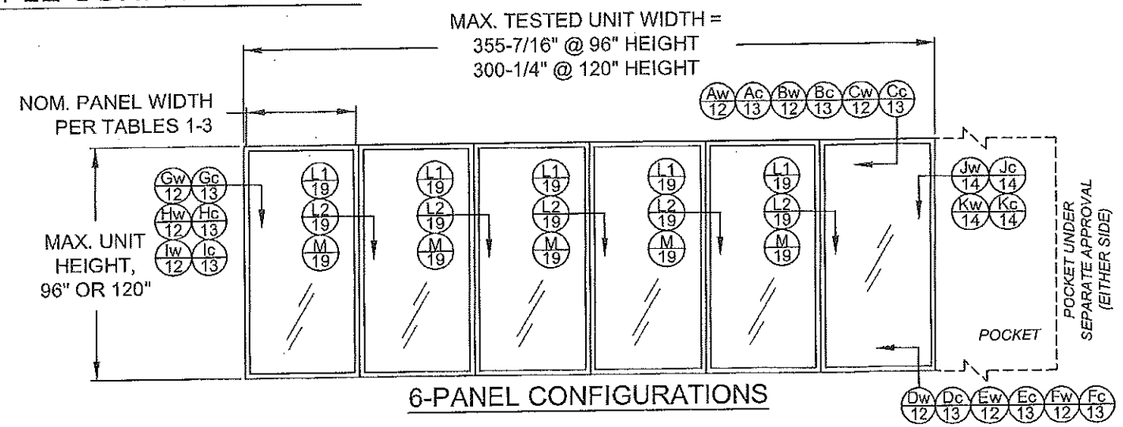
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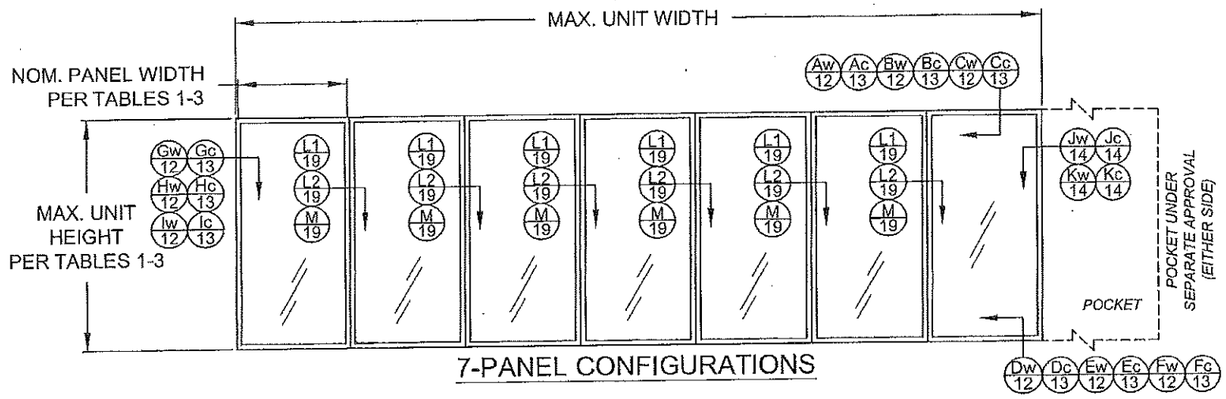
Description: EXAMPLE CONFIGURATIONS
Title: SERIES 770 ALUM. SGD - LM IMPACT

Series/Model:	Scale:	Sheet	Drawing No.	Rev:
SGD-770	NTS	2 of 22	PGT0130	C

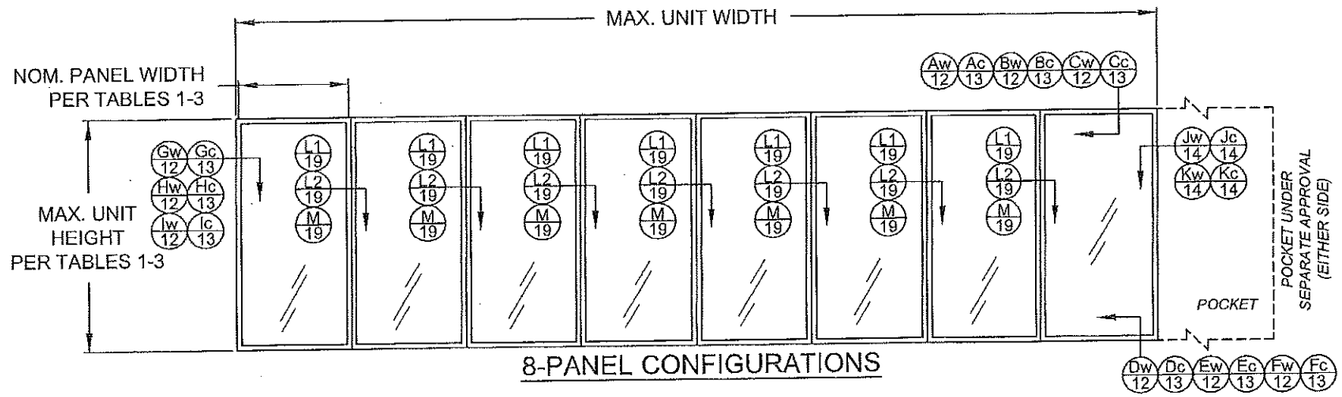
EXAMPLE CONFIGURATIONS



6-PANEL CONFIGURATIONS



7-PANEL CONFIGURATIONS



8-PANEL CONFIGURATIONS

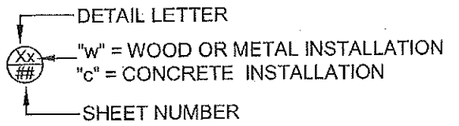
CONFIGURATIONS NOTES:

1) ALL CONFIGURATIONS SHOWN ARE ALSO AVAILABLE AS POCKET CONFIGURATIONS AT EITHER OR BOTH JAMB LOCATIONS USING DETAIL "Jw", "Jc", "Kw" OR "Kc" INSTALLATION. 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 CAN BE A COMBINATION OF ANY 2 STRAIGHT CONFIGURATIONS.

3) FOR NOM. PANEL WIDTH, SEE TABLES 1-3.

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



DLO WIDTH = NOM. PANEL WIDTH - 7"
DLO HEIGHT = DOOR UNIT HEIGHT - 10.125"
PANEL HEIGHT = DOOR UNIT HEIGHT - 1.866"

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 17-0420.12
Expiration Date 02/17/2020
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Miami–Dade Product Control

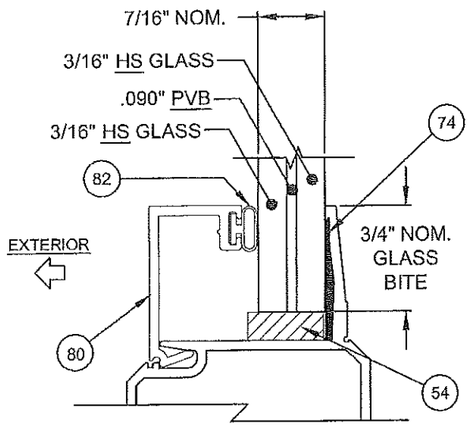
ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
4/18/17
A. LYNN MILLER, P.E.
P.E.# 58705

Revsd By:	Date:	Revisions:	
JR	04/05/17	C	NO CHANGES THIS SHEET.
Drawn By: JR	Date: 10/10/14	Checked By:	Date:

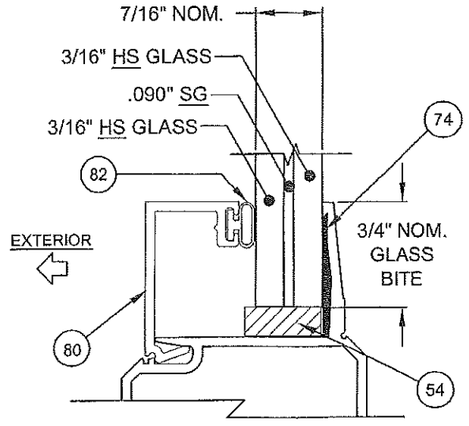
1070 TECHNOLOGY DRIVE
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Description:					
EXAMPLE CONFIGURATIONS					
Title: SERIES 770 ALUM. SGD - LM IMPACT					
Series/Model: SGD-770	Scale: NTS	Sheet: 3 of 22	Drawing No. PGT0130	Rev: C	

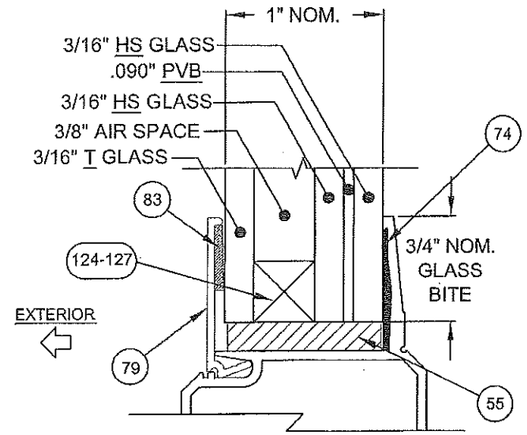
GLAZING DETAILS (G3, G3A, G4, G4A, G5 & G5A)



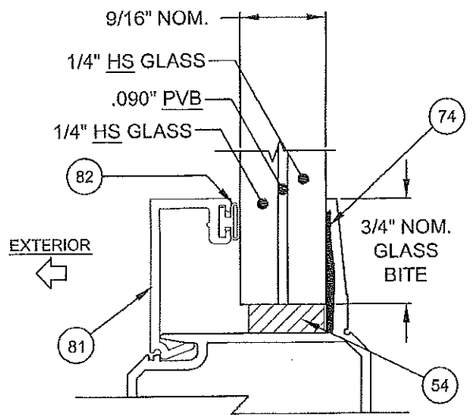
7/16" LAMINATED GLASS, TYPE G3



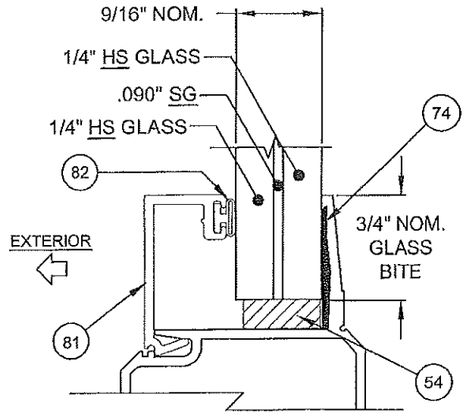
7/16" LAMINATED GLASS, TYPE G4



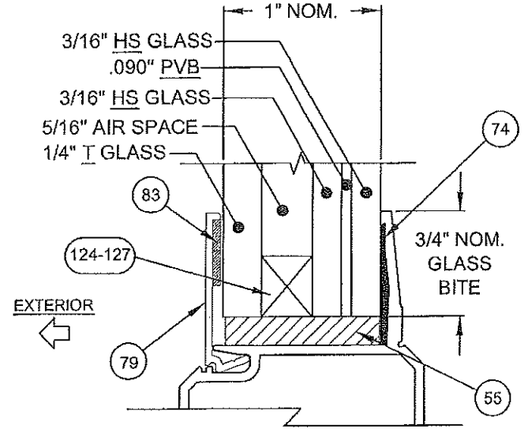
1" LAMINATED I.G. GLASS, TYPE G5



9/16" LAMINATED GLASS, TYPE G3A



9/16" LAMINATED GLASS, TYPE G4A



1" LAMINATED I.G. GLASS, TYPE G5A

PRODUCT REVISED
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NOA-No. 17-0420.12
Expiration Date 02/17/2020
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GLAZING NOTES:
"ANN" = ANNEALED
"HS" = HEAT STRENGTHENED
"T" = TEMPERED
"PVB" = .090" TROSIFOL® PVB BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS® BY KURARAY AMERICA, INC.

SEE SHEET 15 FOR SPACER DETAILS.

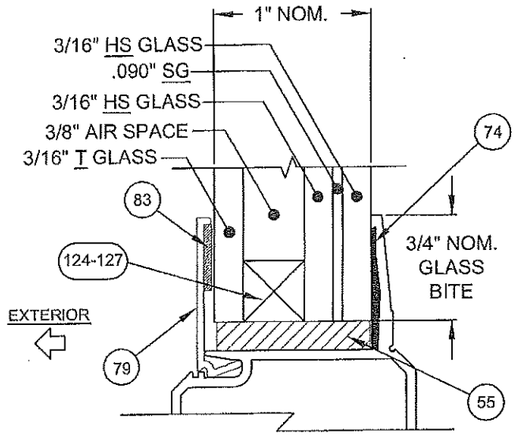
Revsd By:	Date:	Revisions:	
JR	04/05/17	C	NO CHANGES THIS SHEET.
Drawn By: JR	Date: 10/10/14	Checked By:	Date:

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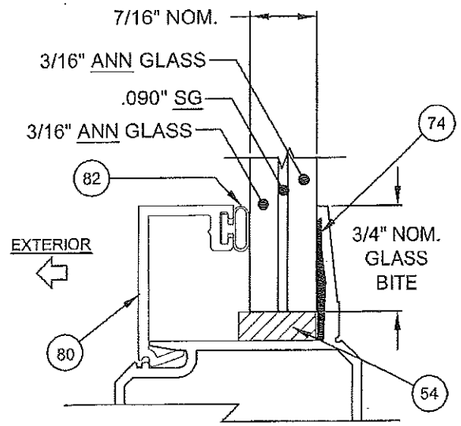
Description:					
GLAZING DETAILS					
Title: SERIES 770 ALUM. SGD - LM IMPACT					
Series/Model: SGD-770	Scale: NTS	Sheet: 4 of 22	Drawing No. PGT0130	Rev: C	

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
4/18/17
A. LYNN MILLER, P.E.
P.E.# 58705

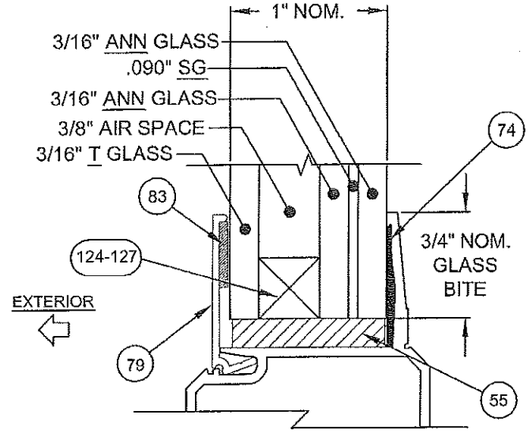
GLAZING DETAILS (G6, G6A, G7, G7A, G8 & G8A)



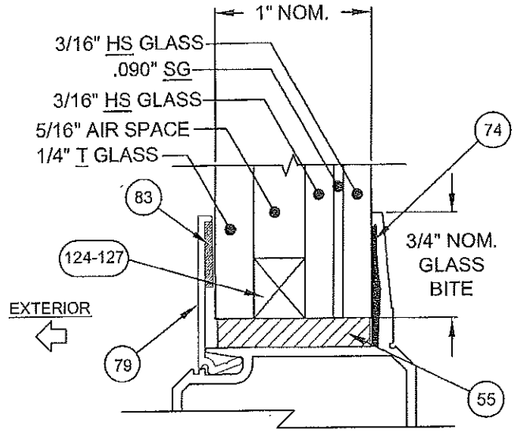
1" LAMINATED I.G. GLASS, TYPE G6



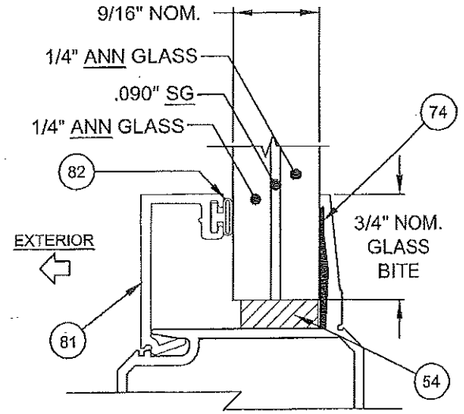
7/16" LAMINATED GLASS, TYPE G7



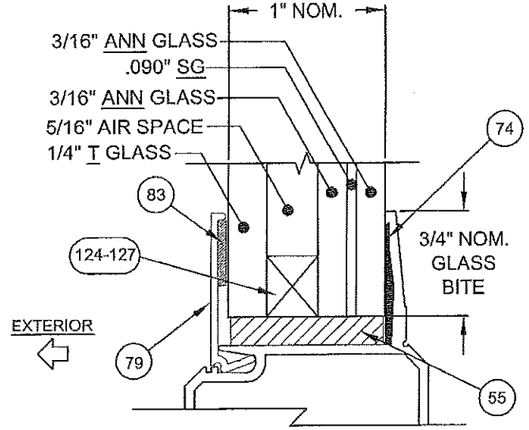
1" LAMINATED I.G. GLASS, TYPE G8



1" LAMINATED I.G. GLASS, TYPE G6A



9/16" LAMINATED GLASS, TYPE G7A



1" LAMINATED I.G. GLASS, TYPE G8A

GLAZING NOTES:
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"HS" = HEAT STRENGTHENED
"T" = TEMPERED
"PVB" = .090" TROSIFOL® PVB BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS® BY KURARAY AMERICA, INC.

SEE SHEET 15 FOR SPACER DETAILS.

Revsd By:	Date:	Revisions:	
JR	04/05/17	C	NO CHANGES THIS SHEET.
Drawn By: JR	Date: 10/10/14	Checked By:	Date:

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Description: GLAZING DETAILS
Title: SERIES 770 ALUM. SGD - LM IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD-770	NTS	5 of 22	PGT0130	C

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 17-0420.12
Expiration Date 02/17/2020
By Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/18/17

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

TABLE 1:

Design Pressure (DP) and Anchor Quantities Required, (for all approved configurations on Sheets 2 & 3)
For corner astragal anchorage on 90° or 135° corner units, see sheet 11

Maximum DP for all sizes: +60 / -60 psf
(May be limited by Table 1A)

Table applies to Glass Types 3, 3A, 5, 5A, 7, 7A, 8 & 8A and the Stile/Astragal Types shown below.

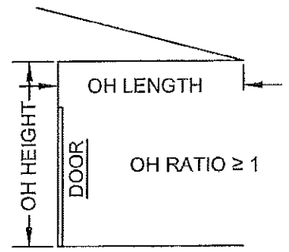
Nominal Panel Width (in)	DLO		Door Unit Height	80" / 69-7/8" DLO				84" / 73-7/8" DLO				90" / 79-7/8" DLO				96" / 85-7/8" DLO			
				Anchor Group				Anchor Group				Anchor Group				Anchor Group			
				A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
24"	17" DLO	Head/Sill		C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1
		Jamb		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
		P-hook		6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8
30"	23" DLO	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
		Jamb		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
		P-hook		6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8
36"	29" DLO	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
		Jamb		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
		P-hook		6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8
42"	35" DLO	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
		Jamb		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
		P-hook		6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8
48"	41" DLO	Head/Sill		C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2
		Jamb		8	8	8	8	8	8	8	8	8	8	8	8	10	8	8	8
		P-hook		6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8

FOR EXAMPLE ON USING TABLE, SEE SHEET 8.

TABLE 1A:

Sill Height to Max. (+) DP (Water Infiltration Rating)	
Sill Riser Height (Flat or Box, see Sheet 17)	(+) Design Pressure, psf
Flush - 1-1/2"	see note 3
Low - 2-1/2"	+ 46.67
Medium - 3-1/4"	+ 60.0
High - 4"	+ 60.0

SEE NOTES 1-3



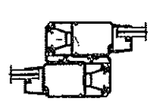
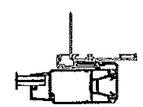
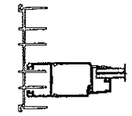
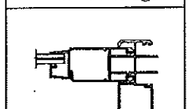
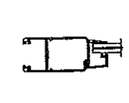
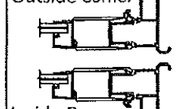
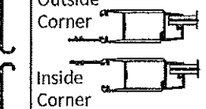
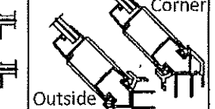
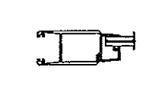
$$\text{OH RATIO} = \frac{\text{OH LENGTH}}{\text{OH HEIGHT}}$$

NOTES:
1) POSITIVE PRESSURES IN TABLE 1 ARE BASED ON THE USE OF THE 3-1/4" SILL.
2) WHEN USING THE 2-1/2" SILL, POSITIVE WATER DP IS 46.67 PSF MAX. WHEN USING THE 3-1/4" SILL, POSITIVE WATER DP IS 60.0 PSF MAX. WHEN USING THE 4" SILL, POSITIVE WATER DP IS 60.0 PSF MAX (NEGATIVE PRESSURES UNCHANGED). SEE TABLE 1A.
3) 4", 3-1/4" AND 2-1/2" SILL HEIGHTS ARE TESTED FOR WATER INFILTRATION WHEREAS THE 1-1/2" SILL IS NOT AND MUST ONLY BE USED WHERE WATER RESISTANCE IS NOT REQUIRED. MAX. POSITIVE DESIGN PRESSURES SHOWN IN TABLE 1 MAY BE USED WHEN THE DOOR IS PROTECTED BY AN OVERHANG COMPLYING WITH THE CURRENT FLORIDA BUILDING CODE (SEE ADJACENT DIAGRAM); THIS CONDITION IS NOT RATED FOR WATER INFILTRATION.
4) SEE SHEETS 10-14 FOR ANCHORAGE SPACING, EDGE DISTANCE AND EMBEDMENT INFORMATION.
5) DOOR SIZE TO COMPLY WITH CURRENT FBC EGRESS REQUIREMENTS WHEN REQUIRED.
6) JAMB ANCHORS ARE SPECIFIED AS THE TOTAL QUANTITY, DIVIDE BY 2 FOR PAIRS TO BE INSTALLED.

DLO WIDTH =
NOM. PANEL WIDTH - 7"

DLO HEIGHT =
DOOR UNIT HEIGHT - 10.125"

PANEL HEIGHT =
DOOR UNIT HEIGHT - 1.866"

Interlock	P-hook	Lockstile @ Jamb	Straight Astragal Assembly	Lockstile @ Straight Astragal	90° Astragal Assembly	Lockstile @ 90° Astragal	135° Astragal Assembly	Lockstile @ 135° Astragal
Standard Stiles	Standard Stile	Standard Stile	Standard Stile	Standard Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile
			Standard Astragal					
								
Part #60 (x2)	Part #60	Part #60	Part #60 (Stile) Part #67 (Astragal)	Part #60	Part #61 (Stile) Part #118 (Corner Receiver)	Part #119 (Out.) Part #120 (In.)	Part #61 (Stile) Parts #31 & #32 (Corn. & Fxd Mount)	Part #61

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NOA-No. 17-0420.12
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Miami-Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
4/18/17
A. LYNN MILLER, P.E.
P.E.# 58705

Revsd By:	Date:	Revisions:	
JR	04/05/17	C	REVISED TABLE 1.
Drawn By: JR	Date: 10/10/14	Checked By:	Date:

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Description: DP AND ANCHORAGE
Title: SERIES 770 ALUM. SGD - LM IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD-770	NTS	6 of 22	PGT0130	C

TABLE 2:

Design Pressure (DP) and Anchor Quantities Required, (for all approved configurations on Sheets 2 & 3)
For corner astragal anchorage on 90° or 135° corner units, see sheet 11

Maximum DP for all sizes: +60 / -60
(May be limited by Table 2A)

Table applies to Glass Types 4, 4A, 6, 6A, 7, 7A, 8 & 8A and the Stile/Astragal Types shown below.

Nominal Panel Width	DLO		Door Unit Height	80"				84"				90"				96"				102"				108"				114"				120"			
				69-7/8" DLO				73-7/8" DLO				79-7/8" DLO				85-7/8" DLO				91-7/8" DLO				97-7/8" DLO				103-7/8" DLO				109-7/8" DLO			
				Anchor Group				Anchor Group				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	A	B	C	D
24"	17" DLO	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	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
		Jamb		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
		P-hook		6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	8+9	8+9	8+9	8+9	8+9	8+9	8+9	8+9	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10
30"	23" DLO	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	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
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		P-hook		6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	8+9	8+9	8+9	8+9	8+9	8+9	8+9	8+9	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10
36"	29" DLO	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	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
		Jamb		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
		P-hook		6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	8+9	8+9	8+9	8+9	8+9	8+9	8+9	8+9	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10
42"	35" DLO	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	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C5+1	C5+1	C4+1	C4+1
		Jamb		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	10	10	10	10	10	10	10	10	10	10	10	10	12	10	10	10
		P-hook		6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	8+9	8+9	8+9	8+9	8+9	8+9	8+9	8+9	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10
48"	41" DLO	Head/Sill		C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C5+2	C5+2	C4+2	C4+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2
		Jamb		8	8	8	8	8	8	8	8	8	8	8	8	10	8	8	8	10	10	10	10	10	10	10	10	12	10	10	10	12	10	10	10
		P-hook		6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	8+9	8+9	8+9	8+9	8+9	8+9	8+9	8+9	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10
54"	47" DLO	Head/Sill		C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	Not available in these sizes																
		Jamb		8	8	8	8	8	8	8	8	10	8	8	8	10	8	8	8																
		P-hook		6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8																
60"	53" DLO	Head/Sill		C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2																
		Jamb		8	8	8	8	8	8	8	8	10	8	8	8	10	8	8	8																
		P-hook		6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8																

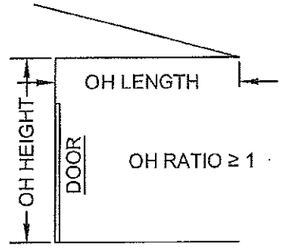
FOR EXAMPLE ON USING TABLE, SEE SHEET 8.

NOTES:
1) POSITIVE PRESSURES IN TABLE 2 ARE BASED ON THE USE OF THE 3-1/4" SILL.
2) WHEN USING THE 2-1/2" SILL, POSITIVE WATER DP IS 46.67 PSF MAX. WHEN USING THE 3-1/4" SILL, POSITIVE WATER DP IS 60.0 PSF MAX. WHEN USING THE 4" SILL, POSITIVE WATER DP IS 60.0 PSF MAX (NEGATIVE PRES. UNCHANGED). SEE TABLE 2A.
3) 4", 3-1/4" AND 2-1/2" SILL HEIGHTS ARE TESTED FOR WATER INFILTRATION WHEREAS THE 1-1/2" SILL IS NOT AND MUST ONLY BE USED WHERE WATER RESISTANCE IS NOT REQUIRED. MAX. POSITIVE DESIGN PRESSURES SHOWN IN TABLE 2 MAY BE USED WHEN THE DOOR IS PROTECTED BY AN OVERHANG COMPLYING WITH THE CURRENT FBC (SEE ADJACENT DIAGRAM); THIS CONDITION IS NOT RATED FOR WATER INFILTRATION.
4) SEE SHEETS 10-14 FOR ANCHORAGE SPACING, EDGE DISTANCE AND EMBEDMENT INFORMATION.
5) DOOR SIZE TO COMPLY WITH CURRENT FBC EGRESS REQUIREMENTS WHEN REQUIRED.
6) JAMB ANCHORS ARE SPECIFIED AS THE TOTAL QUANTITY, DIVIDE BY 2 FOR PAIRS TO BE INSTALLED.

TABLE 2A:

Sill Height to Max. (+) DP (Water Infiltration Rating)	
Sill Riser Height (Flat or Box, see Sheet 17)	(+) Design Pressure, psf
Flush - 1-1/2"	see note 3
Low - 2-1/2"	+ 46.67
Medium - 3-1/4"	+ 60.0
High - 4"	+ 60.0

SEE NOTES 1-3



$$\text{OH RATIO} = \frac{\text{OH LENGTH}}{\text{OH HEIGHT}}$$

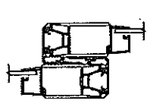
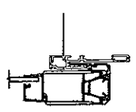
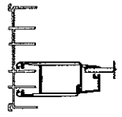
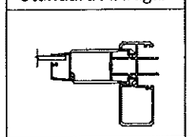
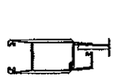
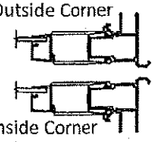
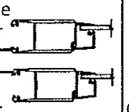
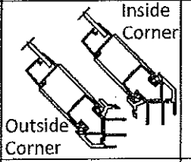
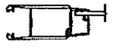
DLO WIDTH =
NOM. PANEL WIDTH - 7"

DLO HEIGHT =
DOOR UNIT HEIGHT - 10.125"

PANEL HEIGHT =
DOOR UNIT HEIGHT - 1.866"

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THE FOLLOWING STILE & ASTRAGAL TYPES SHALL BE USED FOR TABLE 2, SEE SHEETS 21 & 22 FOR PART DIMENSIONS AND SHEETS 18 & 19 FOR ASSEMBLY DETAILS.

Interlock	P-hook	Lockstile @ Jamb	Straight Astragal Assembly	Lockstile @ Straight Astragal	90° Astragal Assembly	Lockstile @ 90° Astragal	135° Astragal Assembly	Lockstile @ 135° Astragal
Heavy-duty Stiles	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile
			Standard Astragal 		Outside Corner  Inside Corner	Outside Corner  Inside Corner	Inside Corner  Outside Corner	
Part #61 (x2)	Part #61	Part #61	Part #61 (Stile) Part #67 (Astragal)	Part #61	Part #61 (Stile) Part #118 (Corner Receiver)	Part #119 (Out.) Part #120 (In.)	Part #61 (Stile) Parts #31 & #32 (Corn. & Fxd Mount)	Part #61

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Revsd By:	Date:	Revisions:	
JR	04/05/17	C	REVISED TABLE 2, REMOVED EXAMPLE.
Drawn By: JR	Date: 10/10/14	Checked By:	Date:

Description: DP AND ANCHORAGE
Title: SERIES 770 ALUM. SGD - LM IMPACT
Series/Model: SGD-770 | Scale: NTS | Sheet: 7 of 22 | Drawing No.: PGT0130 | Rev: C

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
4/18/17
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 3:

Design Pressure (DP) and Anchor Quantities Required, (for all approved configurations on Sheets 2 & 3)
For corner astragal anchorage on 90° or 135° corner units, see sheet 11

Maximum DP shown below
(May be limited by Table 3A)

Table applies to Glass Types 4, 4A, 6, 6A, 7, 7A, 8 & 8A and the Stile/Astragal types shown below.

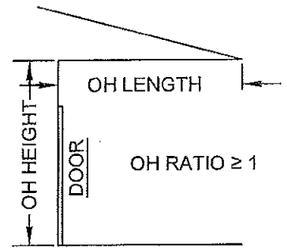
Nominal Panel Width			Door Unit Height																							
			80"				84"				90"				96"				102"				108"			
			69-7/8" DLO				73-7/8" DLO				79-7/8" DLO				85-7/8" DLO				91-7/8" DLO				97-7/8" DLO			
			Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group			
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
24"	17" DLO	*Design Pressure*	+/-90.0 psf																+/-82.5 psf				+/-75.0 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	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1
		Jamb	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	10	10	10	10	10	10	10	10
		P-hook	6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	8+9	8+9	8+9	8+9	8+9	8+9	8+9	8+9
30"	23" DLO	*Design Pressure*	+/-90.0 psf																+/-82.5 psf				+/-75.0 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	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1
		Jamb	8	8	8	8	8	8	8	8	10	8	8	8	10	8	8	8	10	10	10	10	10	10	10	10
		P-hook	6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	8+9	8+9	8+9	8+9	8+9	8+9	8+9	8+9
36"	29" DLO	*Design Pressure*	+/-90.0 psf																+/-82.5 psf				+/-75.0 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	C5+1	C5+1	C4+1	C4+1	C5+1	C5+1	C4+1	C4+1	C5+1	C5+1	C4+1	C4+1
		Jamb	10	8	8	8	10	8	8	8	10	8	8	8	12	10	8	8	12	10	10	10	10	10	10	10
		P-hook	6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	8+9	8+9	8+9	8+9	8+9	8+9	8+9	8+9	8+9	8+9	8+9	8+9
42"	35" DLO	*Design Pressure*	+/-90.0 psf																+/-82.5 psf				+/-75.0 psf			
		Head/Sill	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2
		Jamb	10	8	8	8	10	8	8	8	12	10	8	8	12	10	8	8	12	10	10	10	12	10	10	10
		P-hook	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	8+9	8+9	8+9	8+9	8+9	8+9	8+9	8+9	8+9	8+9	8+9	8+9	8+9	8+9	8+9	8+9
48"	41" DLO	*Design Pressure*	+/-90.0 psf												*See Note A below.*				+/-82.5 psf				+/-75.0 psf			
		Head/Sill	C5+2	C5+2	C4+2	C4+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C6+2	C6+2	C5+2	C5+2	C6+2	C6+2	C5+2	C5+2	C6+2	C6+2	C5+2	C5+2
		Jamb	10	8	8	8	12	10	8	8	12	10	8	8	14	12	8	8	14	12	10	10	14	10	10	10
		P-hook	7+8	7+8	7+8	7+8	8+9	8+9	8+9	8+9	8+9	8+9	8+9	8+9	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10

NOTE A: +/-90.0 PSF FOR GLASS TYPES 4, 4A, 6, 6A, 7A, 8 & 8A; +/-87.1 FOR GLASS TYPE 7
EXAMPLE ON SHEET 9

TABLE 3A:

Sill Height to Max. (+) DP (Water Infiltration Rating)	
Sill Riser Height (Flat or Box, see Sheet 17)	(+) Design Pressure, psf
Flush - 1-1/2"	see note 3
Low - 2-1/2"	+ 46.67
Medium - 3-1/4"	+ 60.0
High - 4"	+ 90.0

SEE NOTES 1-3



$$\text{OH RATIO} = \frac{\text{OH LENGTH}}{\text{OH HEIGHT}}$$

NOTES:
1) POSITIVE PRESSURES IN TABLE 3 ARE BASED ON THE USE OF THE 4" SILL.
2) WHEN USING THE 2-1/2" SILL, POSITIVE WATER DP IS 46.67 PSF MAX. WHEN USING THE 3-1/4" SILL, POSITIVE WATER DP IS 60.0 PSF MAX. WHEN USING THE 4" SILL, POSITIVE WATER DP IS 90.0 PSF MAX (NEGATIVE PRESSURES UNCHANGED). SEE TABLE 3A.
3) 4", 3-1/4" AND 2-1/2" SILL HEIGHTS ARE TESTED FOR WATER INFILTRATION WHEREAS THE 1-1/2" SILL IS NOT AND MUST ONLY BE USED WHERE WATER RESISTANCE IS NOT REQUIRED. MAX. POSITIVE DESIGN PRESSURES SHOWN IN TABLE 3 MAY BE USED WHEN THE DOOR IS PROTECTED BY AN OVERHANG COMPLYING WITH THE CURRENT FLORIDA BUILDING CODE (SEE ADJACENT DIAGRAM); THIS CONDITION IS NOT RATED FOR WATER INFILTRATION.
4) SEE SHEETS 10-14 FOR ANCHORAGE SPACING, EDGE DISTANCE AND EMBEDMENT INFORMATION.
5) DOOR SIZE TO COMPLY WITH CURRENT FBC EGRESS REQUIREMENTS WHEN REQUIRED.
6) JAMB ANCHORS ARE SPECIFIED AS THE TOTAL QUANTITY, DIVIDE BY 2 FOR PAIRS TO BE INSTALLED.

DLO WIDTH =
NOM. PANEL WIDTH - 7"

DLO HEIGHT =
DOOR UNIT HEIGHT - 10.125"

PANEL HEIGHT =
DOOR UNIT HEIGHT - 1.866"

THE FOLLOWING STILE & ASTRAGAL TYPES SHALL BE USED FOR TABLE 3, SEE SHEETS 21 & 22 FOR PART DIMENSIONS AND SHEETS 18 & 19 FOR ASSEMBLY DETAILS.

Interlock	P-hook	Lockstile @ Jamb	Straight Astragal Assembly	Lockstile @ Straight Astragal	90° Astragal Assembly	Lockstile @ 90° Astragal	135° Astragal Assembly	Lockstile @ 135° Astragal
Heavy-duty Stiles	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile
			Heavy-duty Astragal		Outside Corner Inside Corner	Outside Corner Inside Corner	Inside Corner Outside Corner	
Part #61 (x2)	Part #61	Part #61	Part #61 (Stile) Part #68 (Astragal)	Part #61	Part #61 (Stile) Part #118 (Corner Receiver)	Part #119 (Out.) Part #120 (In.)	Part #61 (Stile) Parts #31 & #32 (Corn. & Fxd Mount)	Part #61

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P.E.# 58705

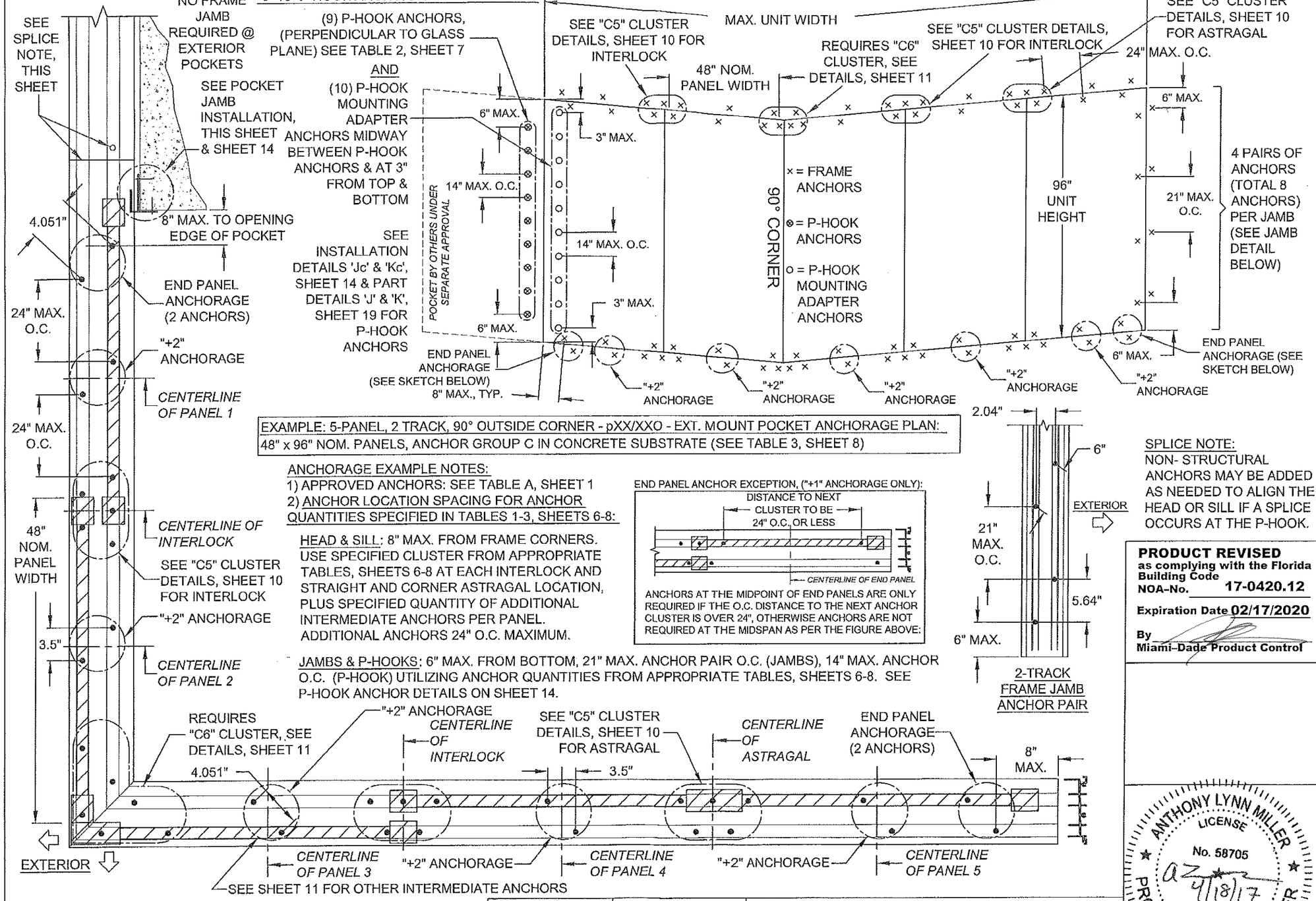
Revsd By:	Date:	Revisions:	
JR	04/05/17	C	REVISED TABLE 3, ADDED EXAMPLE.
Drawn By: JR	Date: 10/10/14	Checked By:	Date:

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Description: DP AND ANCHORAGE
Title: SERIES 770 ALUM. SGD - LM IMPACT
Series/Model: SGD-770 | Scale: NTS | Sheet: 8 of 22 | Drawing No.: PGT0130 | Rev: C



EXAMPLE: 5-PANEL, 2 TRACK, 90° OUTSIDE CORNER - pXX/XXO - EXT. MOUNT POCKET ANCHORAGE PLAN:
48" x 96" NOM. PANELS, ANCHOR GROUP C IN CONCRETE SUBSTRATE (SEE TABLE 3, SHEET 8)

ANCHORAGE EXAMPLE NOTES:

1) APPROVED ANCHORS: SEE TABLE A, SHEET 1
2) ANCHOR LOCATION SPACING FOR ANCHOR QUANTITIES SPECIFIED IN TABLES 1-3, SHEETS 6-8:

HEAD & SILL: 8" MAX. FROM FRAME CORNERS. USE SPECIFIED CLUSTER FROM APPROPRIATE TABLES, SHEETS 6-8 AT EACH INTERLOCK AND STRAIGHT AND CORNER ASTRAGAL LOCATION, PLUS SPECIFIED QUANTITY OF ADDITIONAL INTERMEDIATE ANCHORS PER PANEL. ADDITIONAL ANCHORS 24" O.C. MAXIMUM.

JAMBS & P-HOOKS: 6" MAX. FROM BOTTOM, 21" MAX. ANCHOR PAIR O.C. (JAMBS), 14" MAX. ANCHOR O.C. (P-HOOK) UTILIZING ANCHOR QUANTITIES FROM APPROPRIATE TABLES, SHEETS 6-8. SEE P-HOOK ANCHOR DETAILS ON SHEET 14.

END PANEL ANCHOR EXCEPTION, ("+1" 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 AT THE MIDSPAN AS PER THE FIGURE ABOVE:

SPLICE NOTE:
NON- STRUCTURAL ANCHORS MAY BE ADDED AS NEEDED TO ALIGN THE HEAD OR SILL IF A SPLICE OCCURS AT THE P-HOOK.

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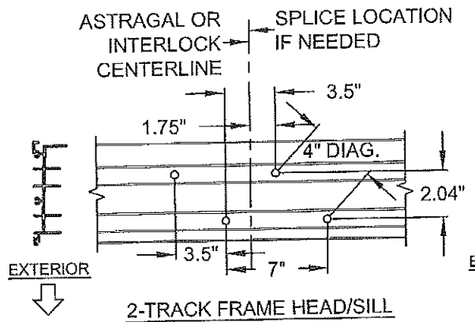
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P.E.# 58705

Revsd By:	Date:	Revisions:	
JR	04/05/17	C	CORRECTED EXAMPLE TO UPDATED ANCHOR VALUES.
Drawn By: JR	Date: 10/10/14	Checked By:	Date:

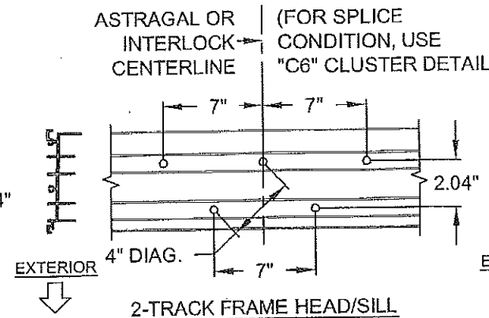
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(941) 480-1600
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Description: ANCHORAGE SPACING & EXAMPLE PLANS
Title: SERIES 770 ALUM. SGD - LM IMPACT

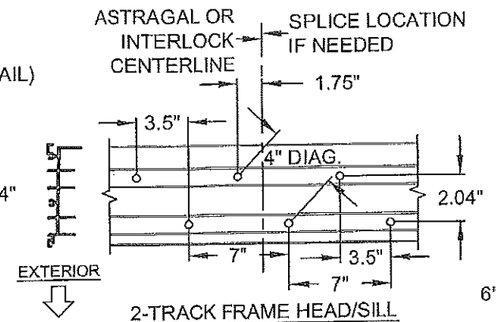
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD-770	NTS	9 of 22	PGT0130	C



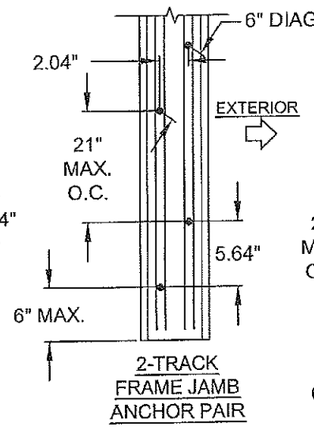
2-TRACK FRAME HEAD/SILL @ ASTRAGAL OR INTERLOCK (USE WHERE 4 CLUSTER ANCHORS ARE REQUIRED, "C4")



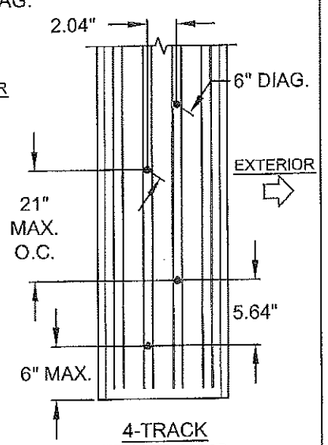
2-TRACK FRAME HEAD/SILL @ ASTRAGAL OR INTERLOCK (USE WHERE 5 CLUSTER ANCHORS ARE REQUIRED, "C5")



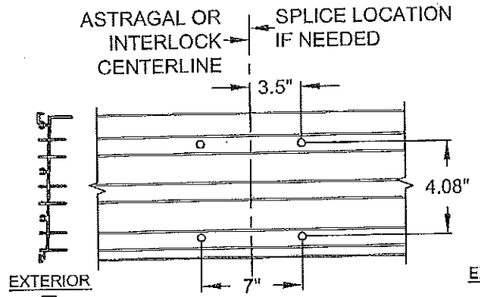
2-TRACK FRAME HEAD/SILL @ ASTRAGAL OR INTERLOCK (USE WHERE 6 CLUSTER ANCHORS ARE REQUIRED, "C6")



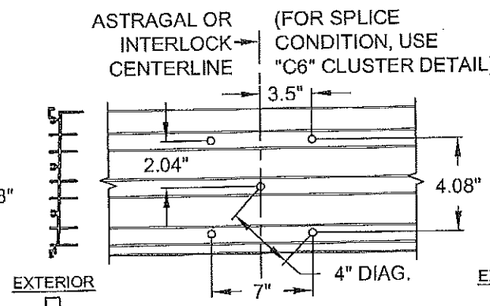
2-TRACK FRAME JAMB ANCHOR PAIR



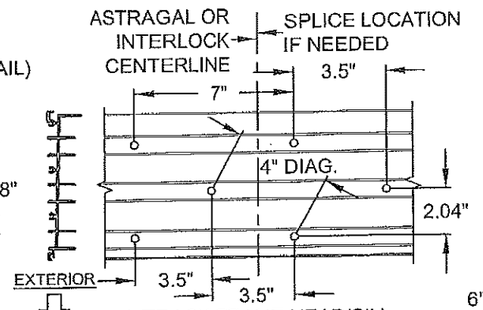
4-TRACK FRAME JAMB ANCHOR PAIR



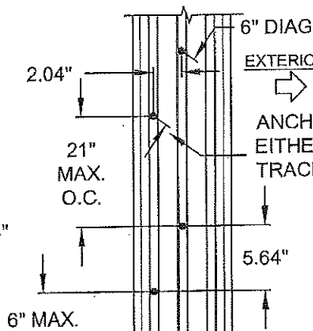
3-TRACK FRAME HEAD/SILL @ ASTRAGAL OR INTERLOCK (USE WHERE 4 CLUSTER ANCHORS ARE REQUIRED, "C4")



3-TRACK FRAME HEAD/SILL @ ASTRAGAL OR INTERLOCK (USE WHERE 5 CLUSTER ANCHORS ARE REQUIRED, "C5")



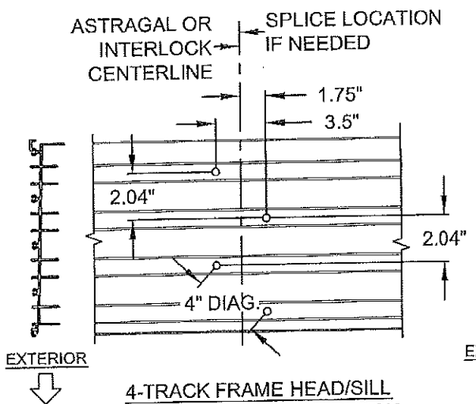
3-TRACK FRAME HEAD/SILL @ ASTRAGAL OR INTERLOCK (USE WHERE 6 CLUSTER ANCHORS ARE REQUIRED, "C6")



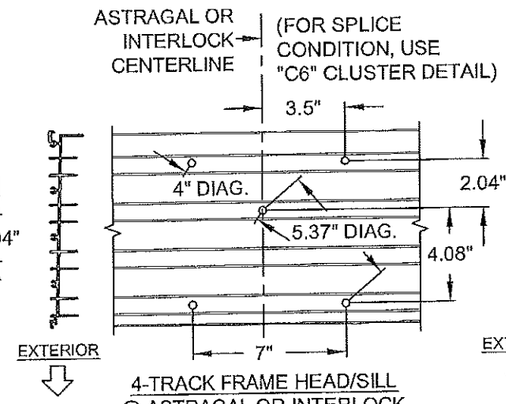
3-TRACK FRAME JAMB ANCHOR PAIR

ANCHORS MAY BE INSTALLED EITHER IN THE EXT. OR INT. TRACK (INT. SHOWN)

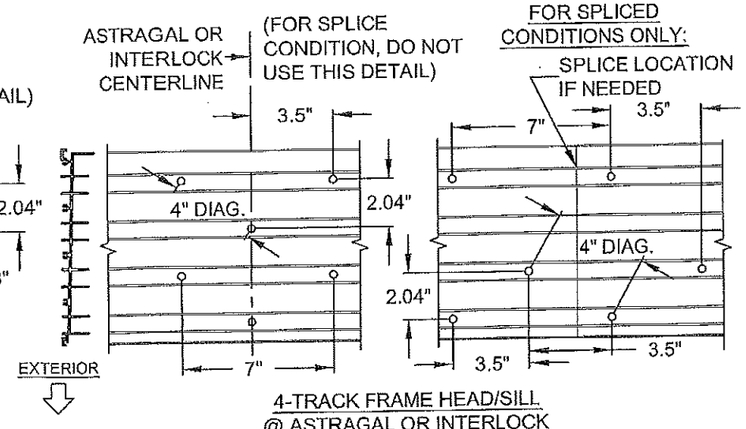
NOTES:
1. ALL DIMENSIONS SHOWN ARE BASED ON MIN. ALLOWED.
2. FOR HEAD OR SILL SPLICE LOCATIONS/ANCHORAGE AT P-HOOK SEE SHEET 9.



4-TRACK FRAME HEAD/SILL @ ASTRAGAL OR INTERLOCK (USE WHERE 4 CLUSTER ANCHORS ARE REQUIRED, "C4")



4-TRACK FRAME HEAD/SILL @ ASTRAGAL OR INTERLOCK (USE WHERE 5 CLUSTER ANCHORS ARE REQUIRED, "C5")



4-TRACK FRAME HEAD/SILL @ ASTRAGAL OR INTERLOCK (USE WHERE 6 CLUSTER ANCHORS ARE REQUIRED, "C6") WITH & WITHOUT SPLICE CONDITION

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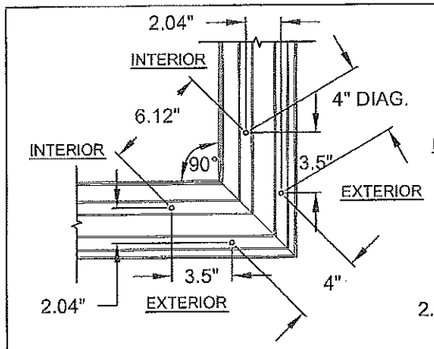
ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
4/18/17
A. LYNN MILLER, P.E.
P.E.# 58705

Revsd By:	Date:	Revisions:	
JR	04/05/17	C	NO CHANGES THIS SHEET.
Drawn By:	Date:	Checked By:	Date:
JR	10/10/14		

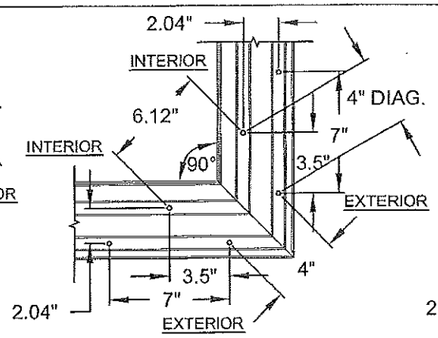
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Description: ANCHORAGE, EXAMPLE CLUSTERS
Title: SERIES 770 ALUM. SGD - LM IMPACT

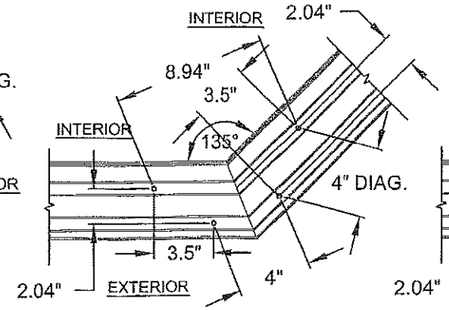
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD-770	NTS	10 of 22	PGT0130	C



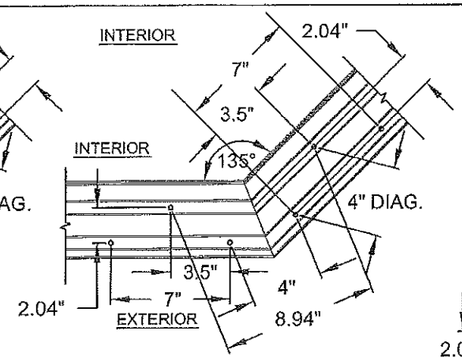
90° CORNER
2-TRACK FRAME HEAD/SILL
(USE WHERE 4 CLUSTER ANCHORS ARE REQUIRED, "C4")



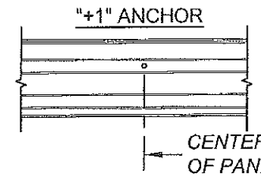
90° CORNER
2-TRACK FRAME HEAD/SILL
(USE WHERE 5 OR 6 CLUSTER ANCHORS ARE REQUIRED, "C6")

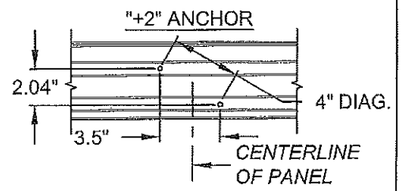


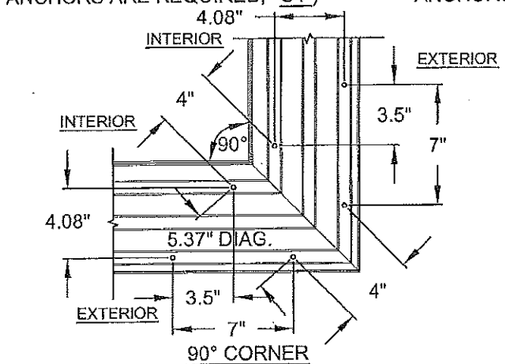
135° CORNER
2-TRACK FRAME HEAD/SILL
(USE WHERE 4 CLUSTER ANCHORS ARE REQUIRED, "C4")



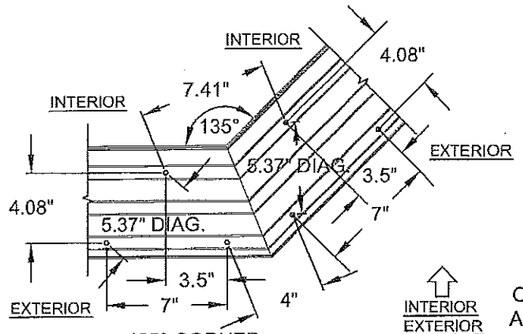
135° CORNER
2-TRACK FRAME HEAD/SILL
(USE WHERE 5 OR 6 CLUSTER ANCHORS ARE REQUIRED, "C6")





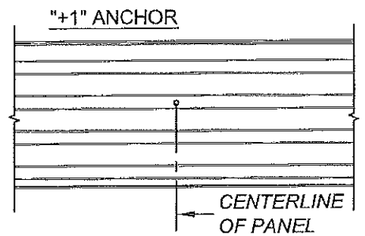


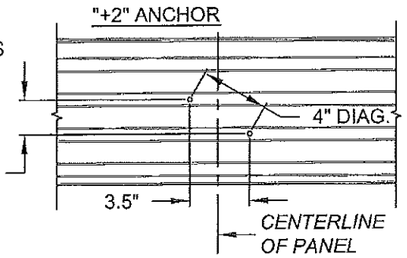
90° CORNER
3-TRACK FRAME HEAD/SILL
("C6" ANCHOR CLUSTER REQUIRED AT ALL 3-TRACK CORNERS)

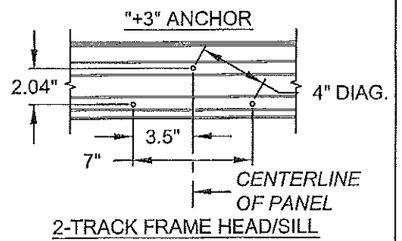


135° CORNER
3-TRACK FRAME HEAD/SILL
("C6" ANCHOR CLUSTER REQUIRED AT ALL 3-TRACK CORNERS)

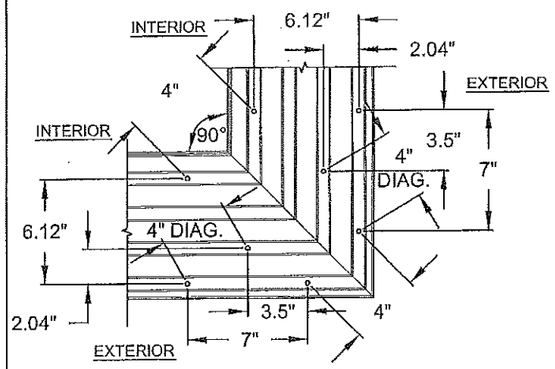
INTERIOR
EXTERIOR
ON ALL VIEWS



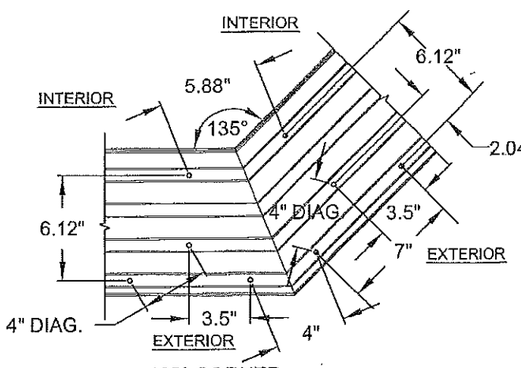




2-TRACK FRAME HEAD/SILL
INTERMEDIATE ANCHOR LAYOUT



90° CORNER
4-TRACK FRAME HEAD/SILL
("C8" ANCHOR CLUSTER REQUIRED AT ALL 4-TRACK CORNERS)



135° CORNER
4-TRACK FRAME HEAD/SILL
("C8" ANCHOR CLUSTER REQUIRED AT ALL 4-TRACK CORNERS)

4-TRACK FRAME HEAD/SILL
INTERMEDIATE ANCHOR LAYOUT
(3-TRACK SIMILAR)

NOTES:
1. ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
2. DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE IDENTICAL FOR EXTERIOR OR INTERIOR CORNER CONFIGURATIONS.

Revsd By:	Date:	Revisions:	
JR	04/05/17	C	NO CHANGES THIS SHEET.
Drawn By:	Date:	Checked By:	Date:
JR	10/10/14		

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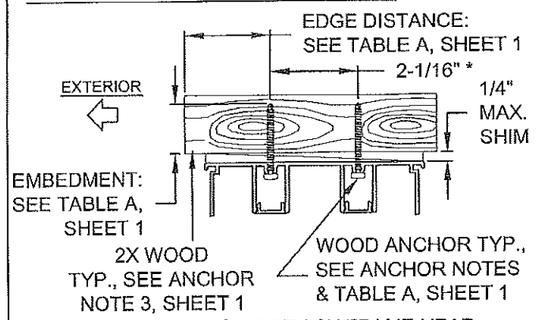
Description: ANCHORAGE, EXAMPLE CLUSTERS
Title: SERIES 770 ALUM. SGD - LM IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD-770	NTS	11 of 22	PGT0130	C

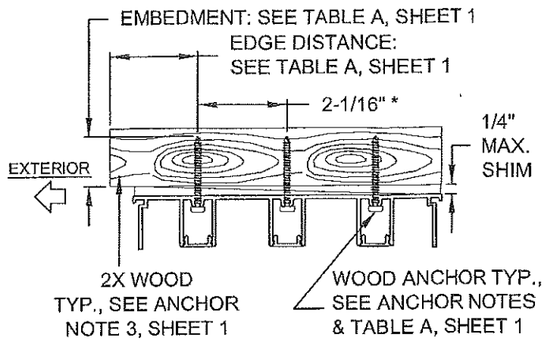
PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0420.12
Expiration Date 02/17/2020
By Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/18/17
A. LYNN MILLER, P.E.
P.E.# 58705

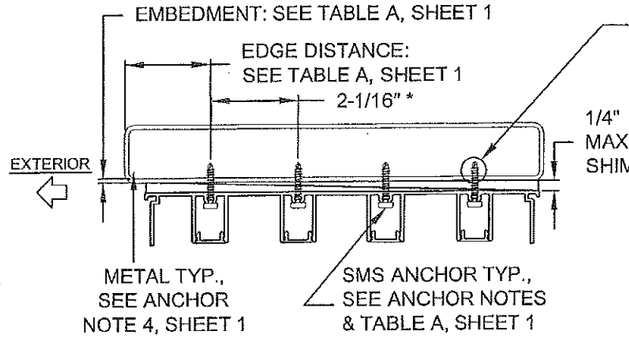
INSTALLATION DETAILS



DET Aw 2-TRACK FRAME HEAD WOOD INSTALLATION



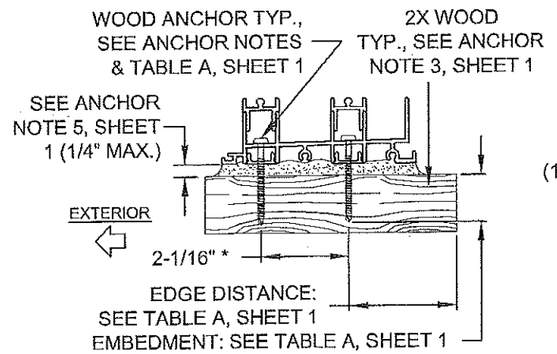
DET Bw 3-TRACK FRAME HEAD WOOD INSTALLATION



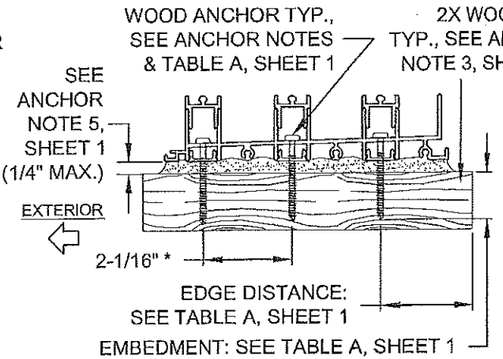
DET Cw 4-TRACK FRAME HEAD METAL INSTALLATION

NOTES:
1. ALL DIMENSIONS SHOWN ARE BASED ON MIN. ALLOWED.
2. METAL OR WOOD SUBSTRATES MAY BE USED FOR ALL FRAME TYPES PER TABLE A, SHEET 1.

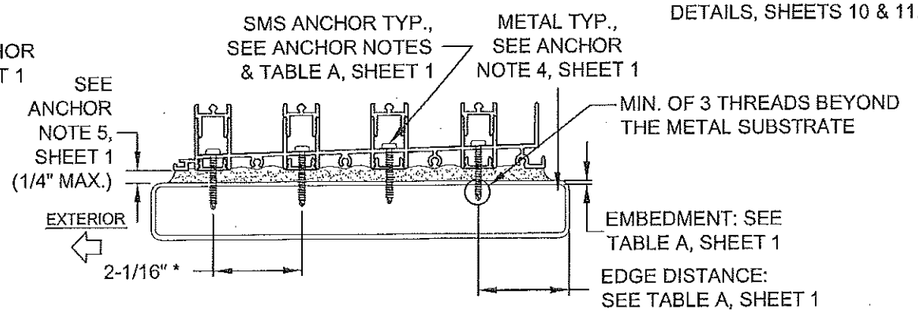
* DIAGONAL O.C. IS MIN 4" (HEAD & SILL) OR 6" (JAMB) SEE DETAILS, SHEETS 10 & 11.



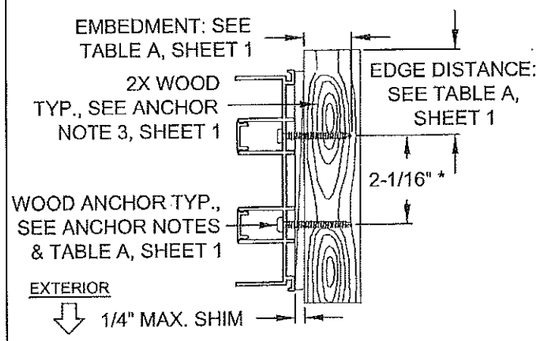
DET Dw 2-TRACK FRAME SILL WOOD INSTALLATION



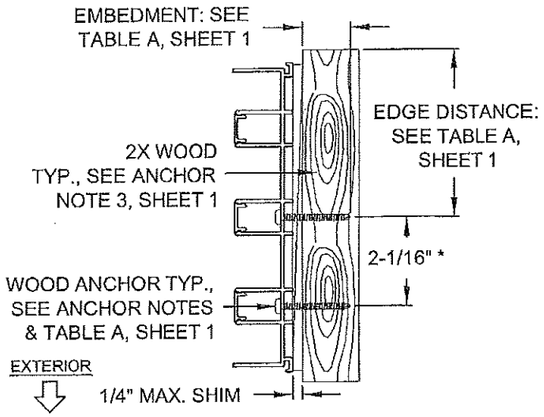
DET Ew 3-TRACK FRAME SILL WOOD INSTALLATION



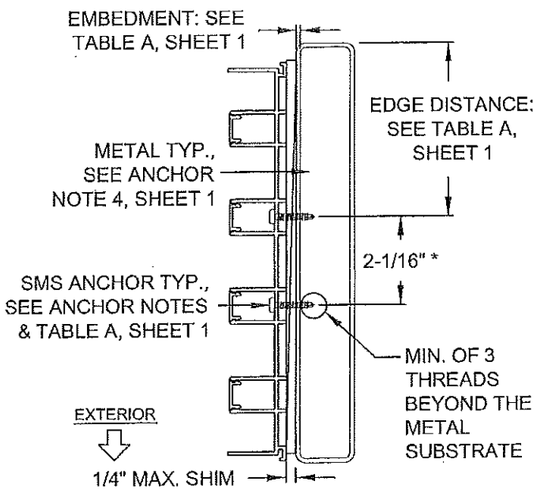
DET Fw 4-TRACK FRAME SILL METAL INSTALLATION



DET Gw 2-TRACK FRAME JAMB WOOD INSTALLATION



DET Hw 3-TRACK FRAME JAMB WOOD INSTALLATION



DET Iw 4-TRACK FRAME JAMB METAL INSTALLATION

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ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
4/18/17
A. LYNN MILLER, P.E.
P.E.# 58705

Revsd By:	Date:	Revisions:	
JR	04/05/17	C	NO CHANGES THIS SHEET.
Drawn By: JR	Date: 10/10/14	Checked By:	Date:

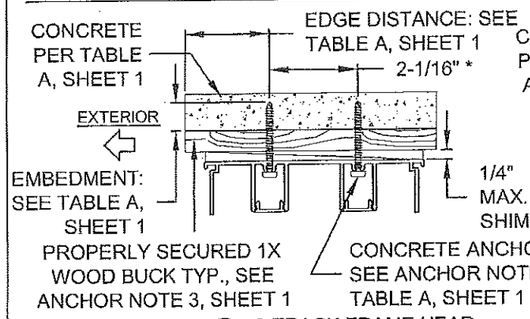
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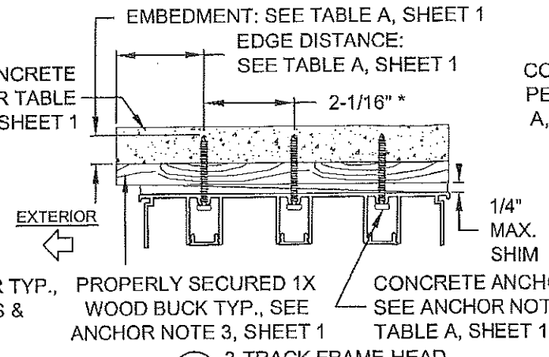
Description: ANCHORAGE DETAILS
Title: SERIES 770 ALUM. SGD - LM IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD-770	NTS	12 of 22	PGT0130	C

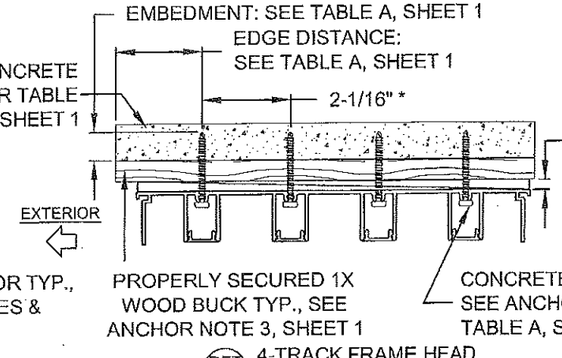
INSTALLATION DETAILS



DET Ac 2-TRACK FRAME HEAD CONCRETE INSTALLATION



DET Bc 3-TRACK FRAME HEAD CONCRETE INSTALLATION

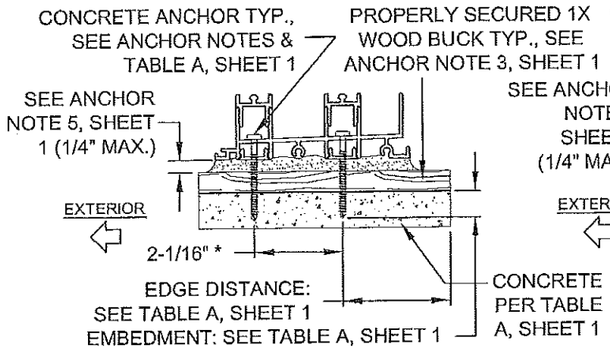


DET Cc 4-TRACK FRAME HEAD CONCRETE INSTALLATION

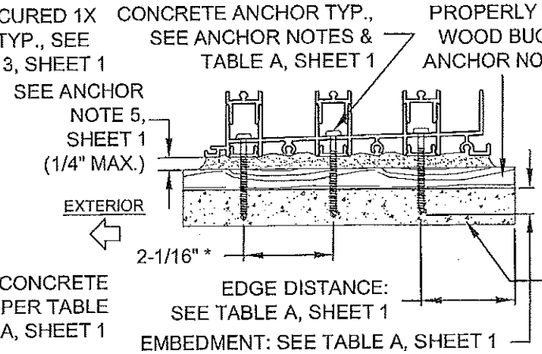
NOTES:

1. ALL DIMENSIONS SHOWN ARE BASED ON MIN. ALLOWED.

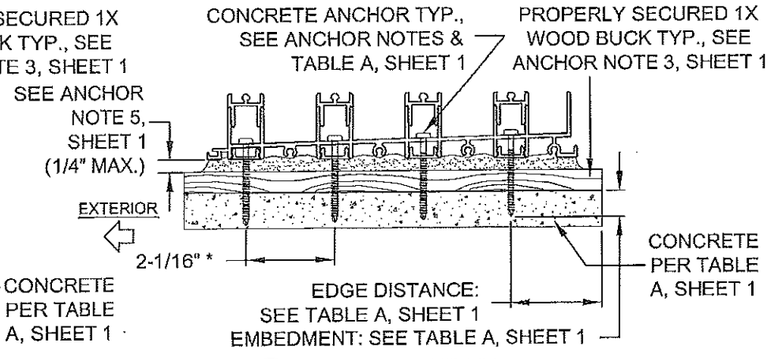
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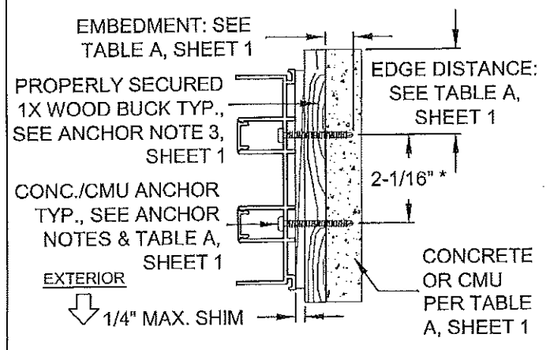
DET Dc 2-TRACK FRAME SILL CONCRETE INSTALLATION



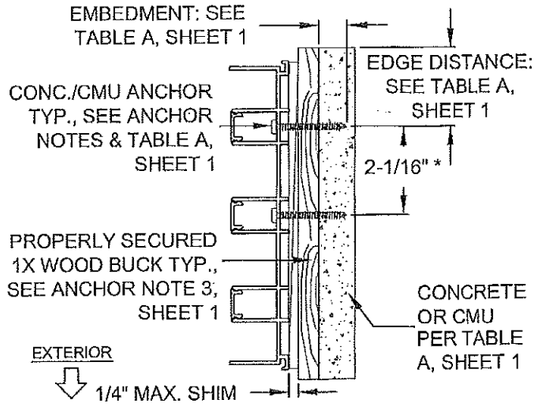
DET Ec 3-TRACK FRAME SILL CONCRETE INSTALLATION



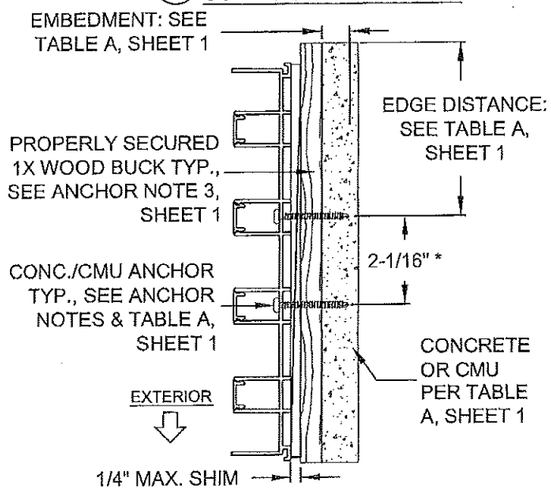
DET Fc 4-TRACK FRAME SILL CONCRETE INSTALLATION



DET Gc 2-TRACK FRAME JAMB CONCRETE/CMU INSTALLATION



DET Hc 3-TRACK FRAME JAMB CONCRETE/CMU INSTALLATION



DET Ic 4-TRACK FRAME JAMB CONCRETE/CMU INSTALLATION

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JR	04/05/17	C	NO CHANGES THIS SHEET.
Drawn By: JR	Date: 10/10/14	Checked By:	Date:

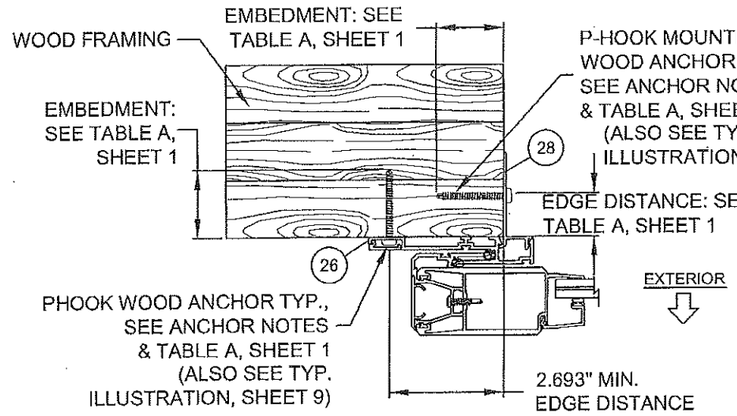
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Description: ANCHORAGE DETAILS
Title: SERIES 770 ALUM. SGD - LM IMPACT

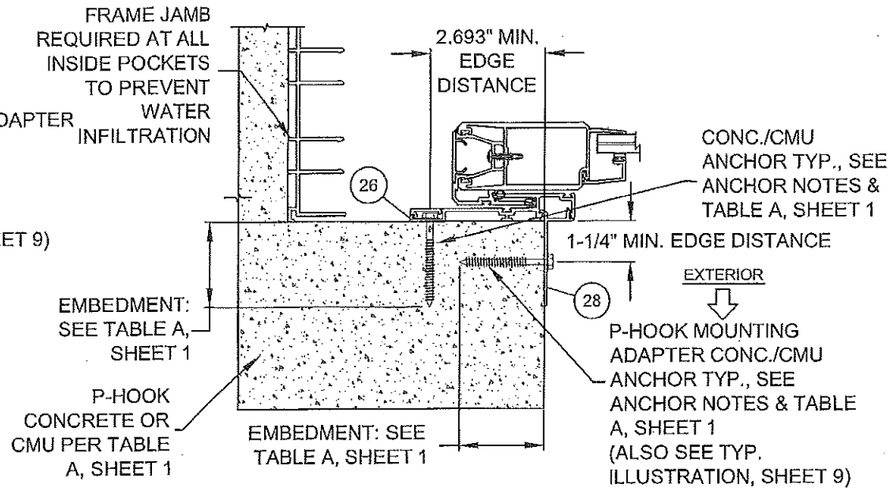
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD-770	NTS	13 of 22	PGT0130	C

INSTALLATION DETAILS



DET Jw — P-HOOK FOR USE WITH FLAT SILL RISERS
PARTS #18, #20, #22 OR #24,
WOOD INSTALLATION
(SEE TABLES 1A, 2A & 3A FOR WATER RATINGS)

EXTERIOR MOUNT SHOWN, MAY ALSO BE INSTALLED IN INTERIOR CONDITION



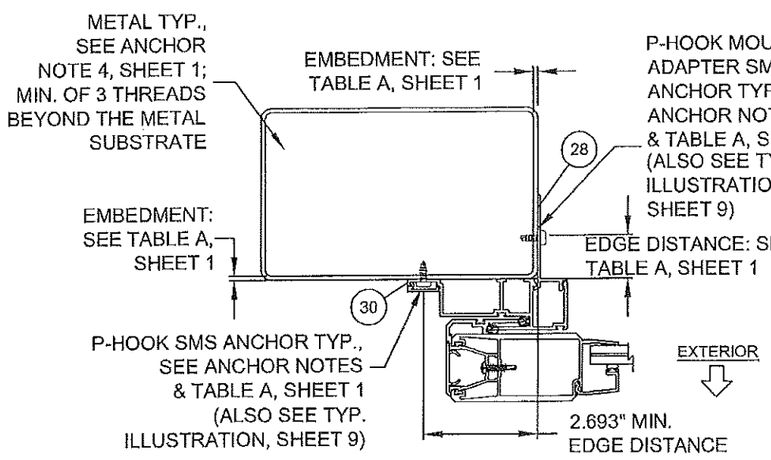
DET Jc — P-HOOK FOR USE WITH ANY SILL RISER
PARTS #18, #20, #22 OR #24,
CONCRETE/CMU INSTALLATION
(SEE TABLES 1A, 2A & 3A FOR WATER RATINGS)

INTERIOR MOUNT SHOWN, MAY ALSO BE INSTALLED IN EXTERIOR CONDITION

NOTES:
1. ALL DIMENSIONS SHOWN ARE BASED ON MIN. ALLOWED.

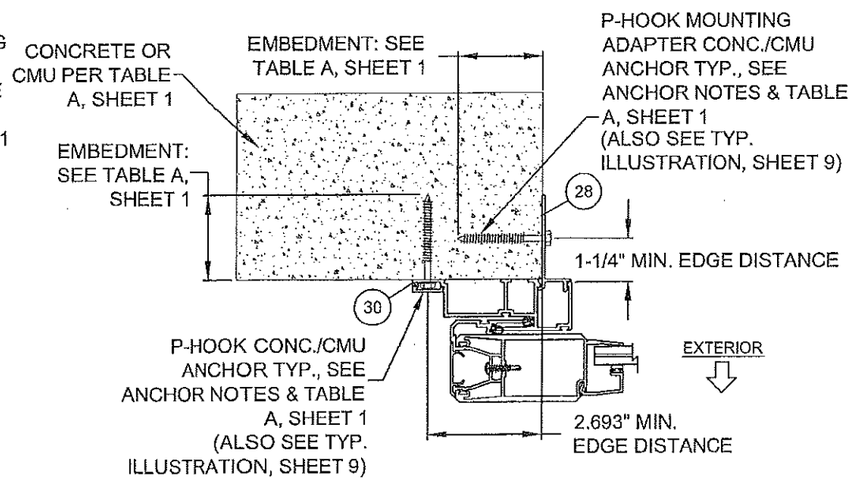
2. FIGURES ON THIS SHEET ARE FOR ILLUSTRATIVE PURPOSES ONLY. SEE TABLE A, SHEET 1 FOR ALL APPROVED SUBSTRATES.

3. SEE TABES 1-3, SHEETS 6-8 FOR REQUIRED P-HOOK AND P-HOOK MOUNTING ADAPTER ANCHOR QUANTITIES. ALSO SEE EXAMPLE ON SHEET 9.



DET Kw — P-HOOK FOR USE WITH BOX SILL RISERS
PARTS #19, #21, #23 OR #25,
METAL INSTALLATION
(SEE TABLES 1A, 2A & 3A FOR WATER RATINGS)

EXTERIOR MOUNT ONLY



DET Kc — P-HOOK FOR USE WITH BOX SILL RISERS
PARTS #19, #21, #23 OR #25,
CONCRETE INSTALLATION
(SEE TABLES 1A, 2A & 3A FOR WATER RATINGS)

EXTERIOR MOUNT ONLY

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NOA-No. 17-0420.12
Expiration Date 02/17/2020
By Miami-Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
4/18/17
A. LYNN MILLER, P.E.
P.E.# 58705

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Description: ANCHORAGE DETAILS
Title: SERIES 770 ALUM. SGD - LM IMPACT

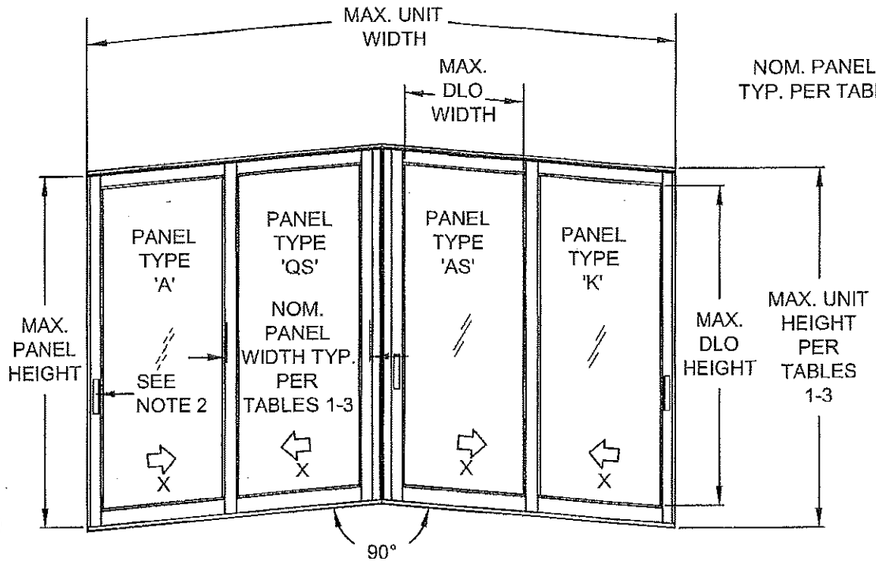
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD-770	NTS	14 of 22	PGT0130	C

CONFIG. EXAMPLES

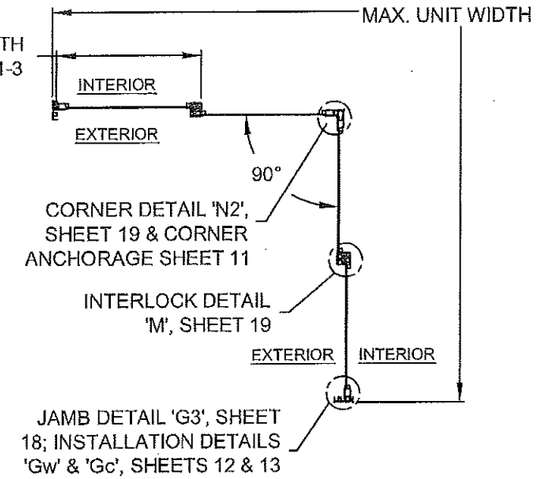
HEADER DETAIL 'A', SHEET 18; INSTALLATION DETAILS 'Aw' & 'Ac', SHEETS 12 & 13

NOTES:
1) SEE SHEET 17 FOR INDIVIDUAL PANEL CONFIGURATIONS AS APPLICABLE. SEE DP/ANCHOR TABLES, SHEETS 6-8 FOR MAX. PANEL HEIGHT AND WIDTH. SEE SHEETS 18 & 19 FOR SECTION DETAILS AND SHEETS 12-14 FOR INSTALLATION DETAILS.
2) (1) LOCK (ITEMS 75 & 107-110) AT EACH LOCKSTILE, LOCKING INTO KEEPER (ITEM 103) AT FRAME JAMB OR ASTRAGAL.
3) PLEASE SEE APPLICABLE ASTRAGAL & INTERLOCK COMBINATIONS PER DP/ANCHOR TABLES.

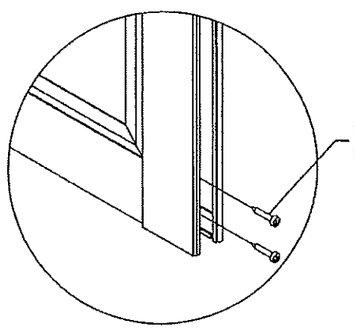
SILL DETAIL 'D', SHEET 18; INSTALLATION DETAILS 'Dw' & 'Dc', SHEETS 12 & 13



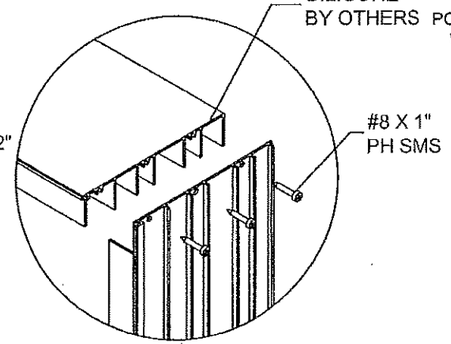
EXAMPLE: 90° INSIDE CORNER, 4 PANELS - XX/XX



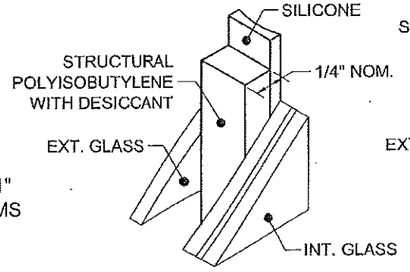
DLO WIDTH = NOM. PANEL WIDTH - 7"
DLO HEIGHT = DOOR UNIT HEIGHT - 10.125"
PANEL HEIGHT = DOOR UNIT HEIGHT - 1.866"



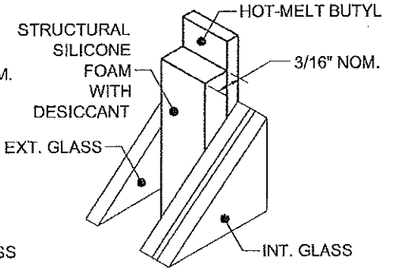
PANEL CORNER DETAIL



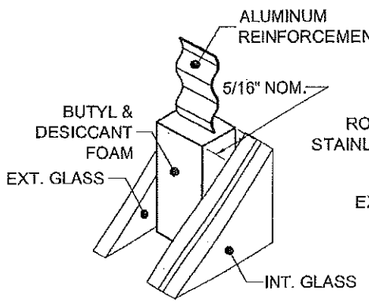
FRAME CORNER DETAIL



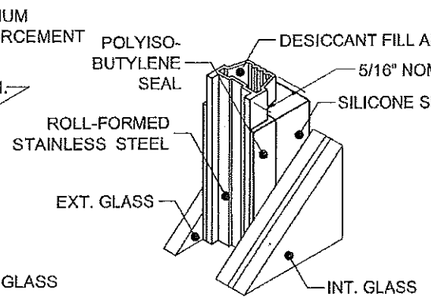
(124) KODISPACE 4SG TPS



(125) SUPER SPACER® NXT™



(126) DURASEAL® SPACER



(127) XL EDGE™ SPACER

Part #	Description	Material
124	Kommerling 4SG TPS Spacer System	See this Sheet for Materials
125	Quanex Super Spacer nXT with Hot Melt Butyl	
126	Quanex Duraseal Spacer	
127	Cardinal XL Edge Spacer	

REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970

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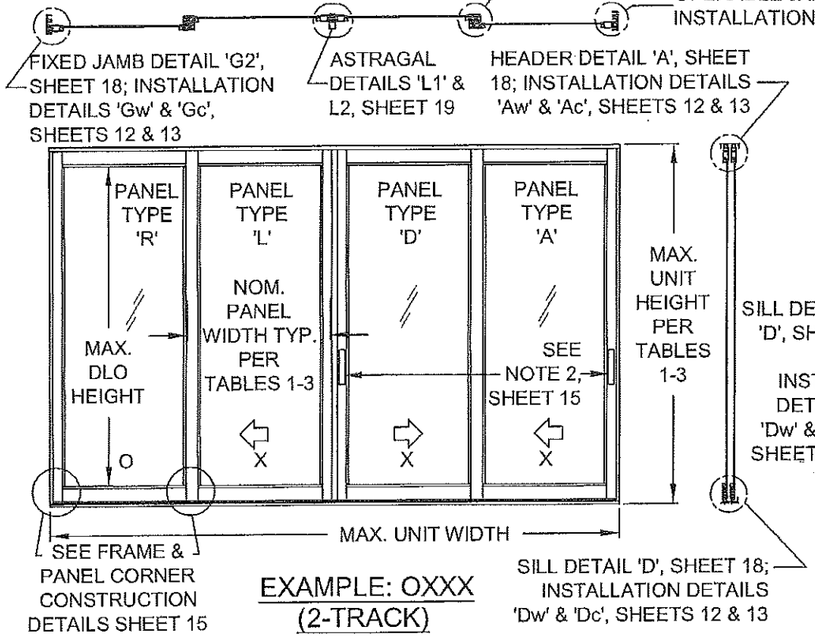
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Description: ANCHORAGE DETAILS / EXAMPLE ELEVATION
Title: SERIES 770 ALUM. SGD - LM IMPACT

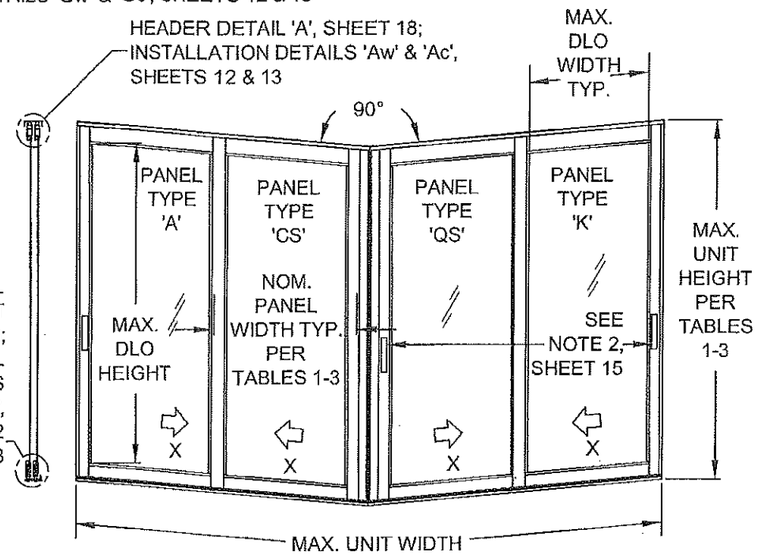
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD-770	NTS	15 of 22	PGT0130	C

CONFIG. EXAMPLES

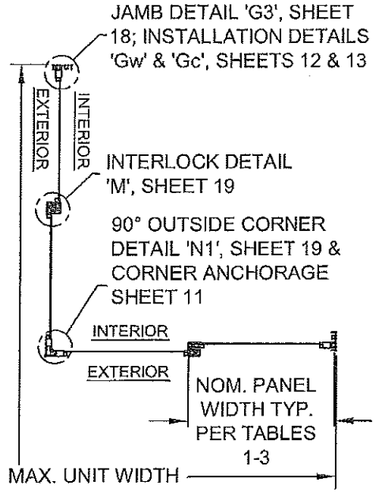
FOR ALL DETAILS ON THIS SHEET, SEE NOTES ON SHEET 15

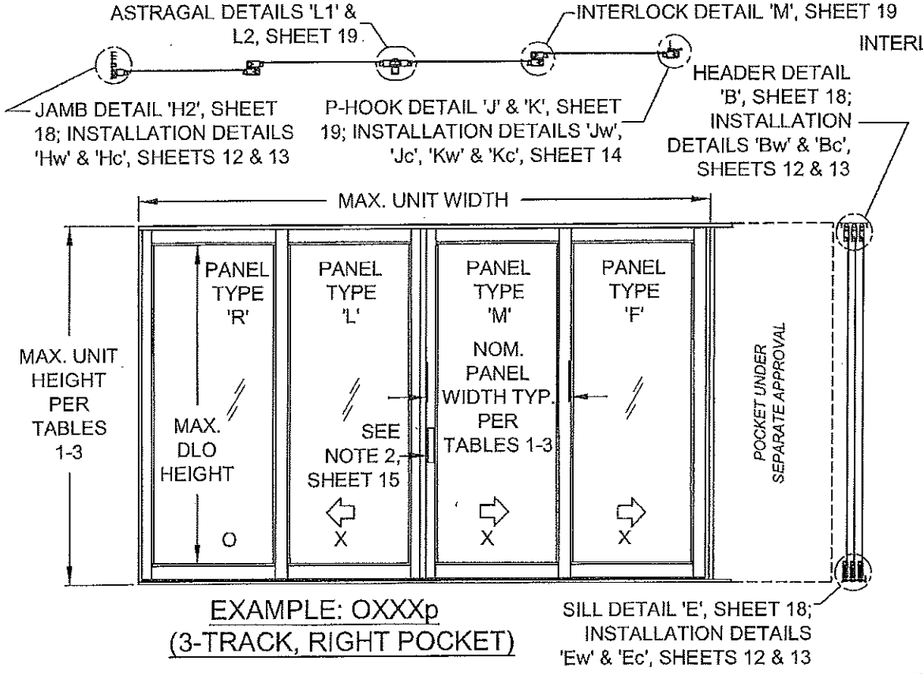


EXAMPLE: OXXX
(2-TRACK)

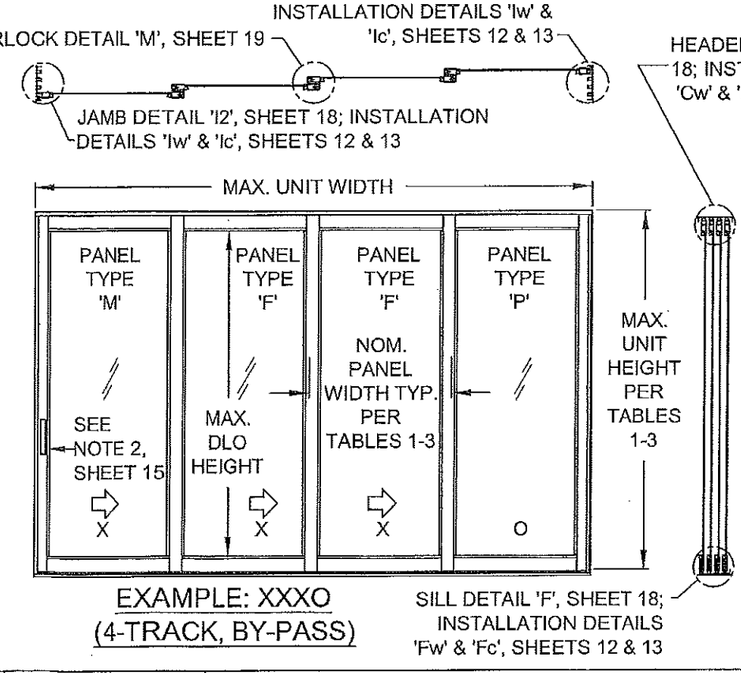


EXAMPLE: 90° OUTSIDE CORNER - XX/XX (2-TRACK)





EXAMPLE: OXXXp
(3-TRACK, RIGHT POCKET)



EXAMPLE: XXXO
(4-TRACK, BY-PASS)

SILL DETAIL 'F', SHEET 18; INSTALLATION DETAILS 'Fw' & 'Fc', SHEETS 12 & 13

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Description: EXAMPLE ELEVATIONS
Title: SERIES 770 ALUM. SGD - LM IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD-770	NTS	16 of 22	PGT0130	C

PANEL'S LEFT STILE TYPE	PANEL'S RIGHT STILE TYPE															
PANEL TYPES	SINGLE INTERLOCK OUT	SINGLE INTERLOCK IN	FIXED STILE	LOCKSTILE W/ HANDLE	ASTRAGAL BOX OUT	ASTRAGAL BOX IN	ASTRAGAL BOX OUT W/ HANDLE	ASTRAGAL BOX IN W/ HANDLE	INT CORNER 90 LOCKSTILE W/ HANDLE #120	EXT CORNER 90 LOCKSTILE W/ HANDLE #119	EXT CORNER 90 RECEIVER W/ HANDLE #61 #118	INT CORNER 90 RECEIVER W/ HANDLE #61 #118	EXT CORNER 90 RECEIVER #61 #118	EXT CORNER 135 RECEIVER W/ HANDLE #61 #31	INT CORNER 135 RECEIVER W/ HANDLE #61 #31
SINGLE INTERLOCK OUT		F	PP	K			L (BOX OUT)		TR	TQ	TC	TA		TV	TW
SINGLE INTERLOCK IN	B	E	P	A			C (BOX OUT	C (BOX IN)	IC	SQ	SC	SA		SV	SW
FIXED STILE	RR	R			S (BOX OUT)	S (BOX IN)						FD	FC	FV	FW
LOCKSTILE W/ HANDLE	D	M			J (BOX OUT)	J (BOX IN)									
ASTRAGAL BOX OUT W/ HANDLE	LR (BOX OUT)														
ASTRAGAL BOX IN W/ HANDLE		N (BOX IN)													
ASTRAGAL BOX OUT			T (BOX OUT)	U (BOX OUT)											
ASTRAGAL BOX IN			T (BOX IN)	U (BOX IN)											
INT CORNER 90 LOCKSTILE W/ HANDLE #120	RT	CI													
EXT CORNER 90 LOCKSTILE W/ HANDLE #119	QT	QS													
EXT CORNER 90 RECEIVER W/ HANDLE #61 #118	CT	CS													
INT CORNER 90 RECEIVER W/ HANDLE #61 #118	AT	AS	DF												
EXT CORNER 90 RECEIVER #61 #118			CF												
EXT CORNER 135 RECEIVER W/ HANDLE #61 #31	VT	VS	VF												
INT CORNER 135 RECEIVER W/ HANDLE #61 #31	WT	WS	WF												

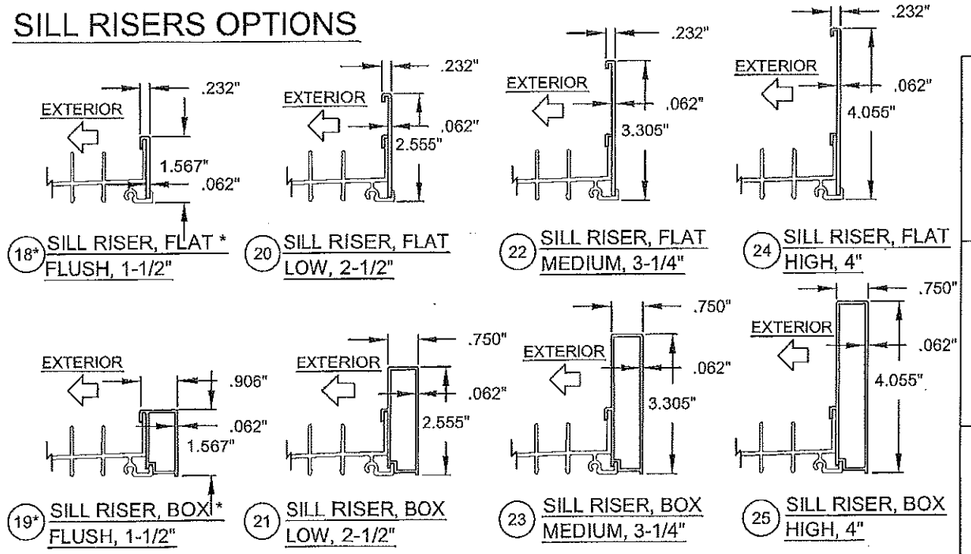
LEFT PANEL STILE — INTERIOR / EXTERIOR — RIGHT PANEL STILE

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

PANEL NOTES:

1. SEE DP TABLES 1-3, SHEETS 6-8 FOR PANEL SIZES & DESIGN PRESSURE.
2. PANEL TYPES NOT SHOWN OR CROSSED OFF ARE NOT REQUIRED FOR ANY CONFIGURATIONS AND ARE NOT AVAILABLE.
3. 90° ASTRAGALS TO USE HEAVY-DUTY STILES (#61), CORNER RECEIVER (#118) AND EITHER EXTERIOR (#119) OR INTERIOR (#120) CORNER ASTRAGALS.
4. 135° ASTRAGALS TO USE HEAVY-DUTY STILES (#61) AND CORNER ADDON (#31).

SILL RISERS OPTIONS



18* SILL RISER, FLAT * FLUSH, 1-1/2"

20 SILL RISER, FLAT LOW, 2-1/2"

22 SILL RISER, FLAT MEDIUM, 3-1/4"

24 SILL RISER, FLAT HIGH, 4"

19* SILL RISER, BOX * FLUSH, 1-1/2"

21 SILL RISER, BOX LOW, 2-1/2"

23 SILL RISER, BOX MEDIUM, 3-1/4"

25 SILL RISER, BOX HIGH, 4"

* NOT VALID FOR WATER INFILTRATION RESISTANCE REQUIREMENTS, SEE SHEETS 6-8

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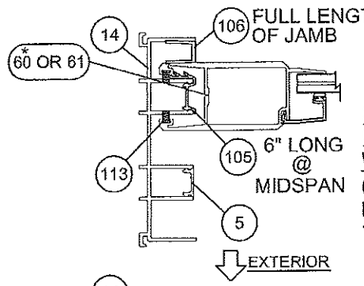
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Description: PANEL TYPES
Title: SERIES 770 ALUM. SGD - LM IMPACT

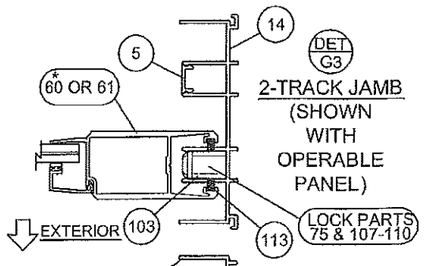
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SGD-770	NTS	17 of 22	PGT0130	C

ASSEMBLY DETAILS

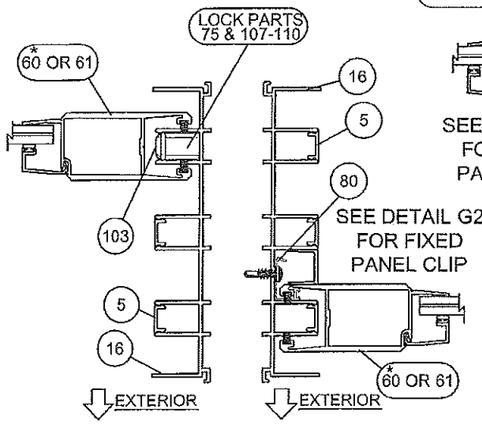
(SEE SHEETS 12-14 FOR FOR INSTALLATION DETAILS)



DET G1 — 2-TRACK JAMB CLIP #105 W/ RETAINER #106 (SHOWN WITH FIXED PANEL TO THE INTERIOR)

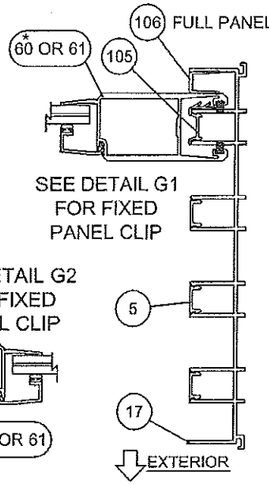


DET G3 — 2-TRACK JAMB (SHOWN WITH OPERABLE PANEL)

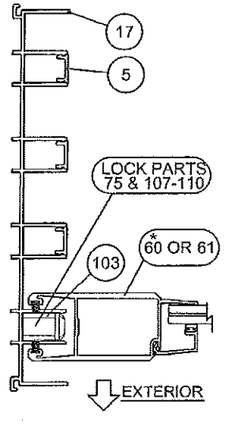


DET H1 — 3-TRACK JAMB (SHOWN WITH OPERABLE PANEL)

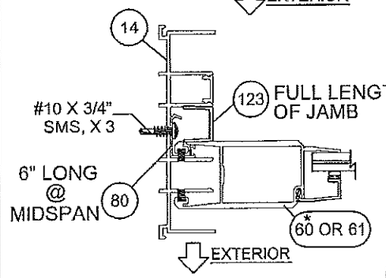
DET H2 — 3-TRACK JAMB (SHOWN WITH FIXED PANEL TO THE EXTERIOR)



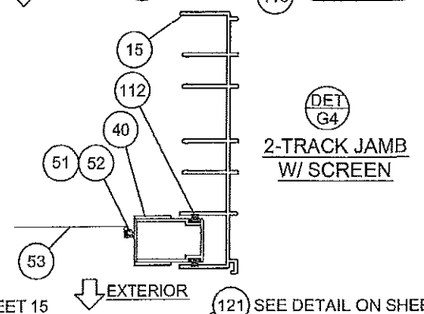
DET I1 — 4-TRACK JAMB (SHOWN WITH FIXED PANEL TO THE INTERIOR)



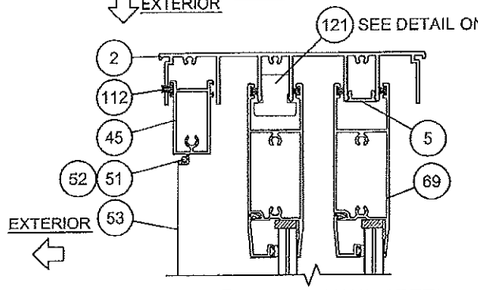
DET I2 — 4-TRACK JAMB (SHOWN WITH OPERABLE PANEL)



DET G2 — 2-TRACK JAMB CLIP #80 OR #105 W/ RETAINER #123 (SHOWN WITH FIXED PANEL TO THE EXTERIOR)

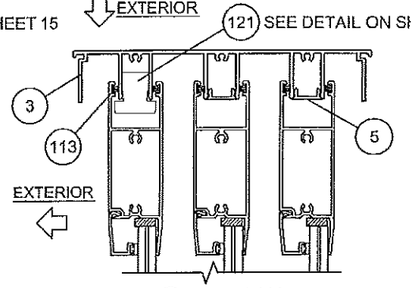


DET G4 — 2-TRACK JAMB W/ SCREEN

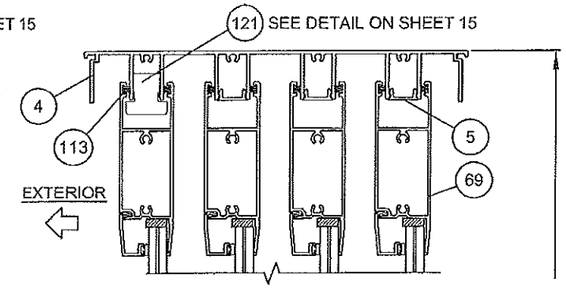


SHOWN WITH OPT. SCREEN TRACK

DET A — 2-TRACK W/SCREEN FRAME HEAD

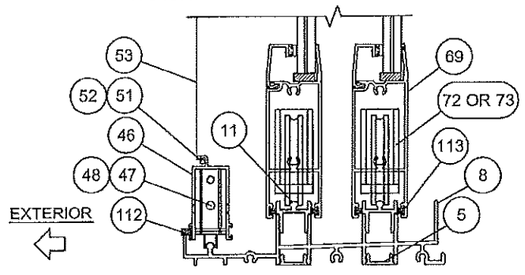


DET B — 3-TRACK FRAME HEAD

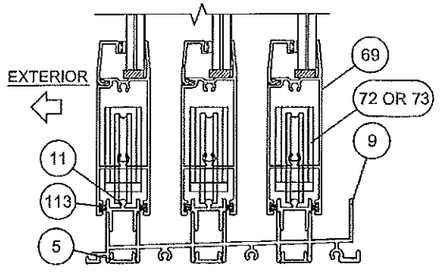


DET C — 4-TRACK FRAME HEAD

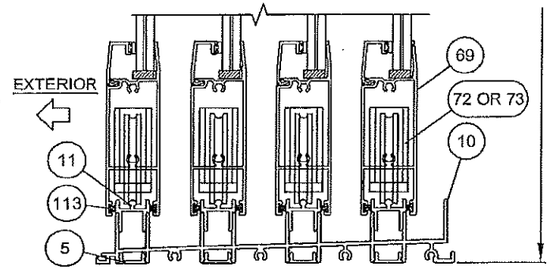
MAX. UNIT HEIGHT PER TABLES 1-3



DET D — 2-TRACK W/SCREEN FRAME SILL



DET E — 3-TRACK FRAME SILL



DET F — 4-TRACK FRAME SILL

* ITEM 61 SHOWN, ITEM 60 ALSO APPLICABLE, SEE TABLES 1-3, SHEETS 6-8 FOR DP (PSF) ASSOCIATED WITH STILE.

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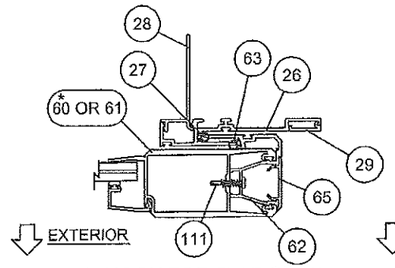
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Description: VERTICAL SECTION DETAILS
Title: SERIES 770 ALUM. SGD-WINDOW - LMI

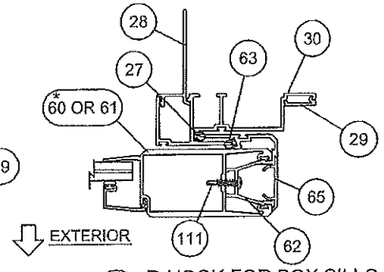
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SGD-770 WINDOW	NTS	18 of 22	PGT0129	C

ASSEMBLY DETAILS

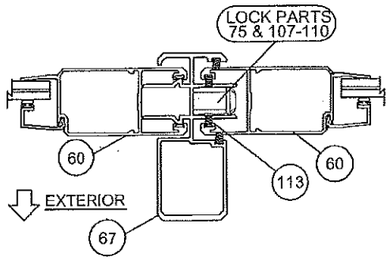
(SEE SHEETS 12-14 FOR FOR INSTALLATION DETAILS)



DET J P-HOOK FOR FLAT SILLS (EXT. OR INT. MOUNT)

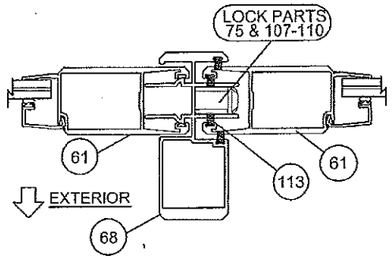


DET K P-HOOK FOR BOX SILLS EXT. MOUNT ONLY



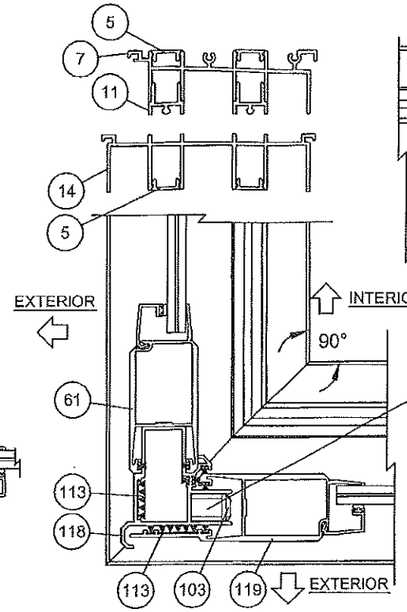
DET L1 STANDARD ASTRAGAL #67 WITH STANDARD STILES #60

EXTERIOR BOX ASTRAGAL SHOWN (BOX-OUT) MAY ALSO BE INSTALLED TOWARDS INTERIOR (BOX-IN)

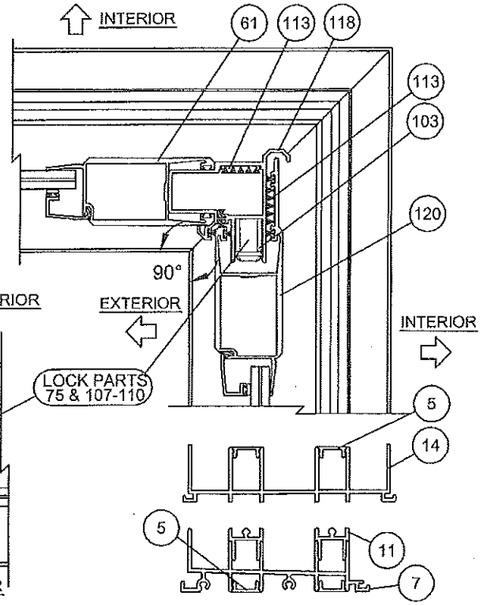


DET L2 HEAVY-DUTY ASTRAGAL #68 WITH HEAVY-DUTY STILES #61

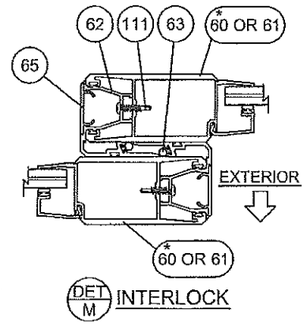
EXTERIOR BOX ASTRAGAL SHOWN (BOX-OUT) MAY ALSO BE INSTALLED TOWARDS INTERIOR (BOX-IN)



DET N1 90° OUTSIDE CORNER 2-TRACK SHOWN

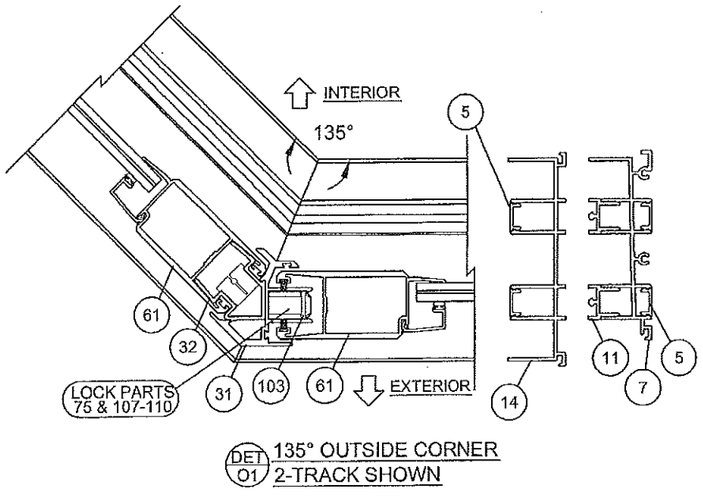


DET N2 90° INSIDE CORNER 2-TRACK SHOWN

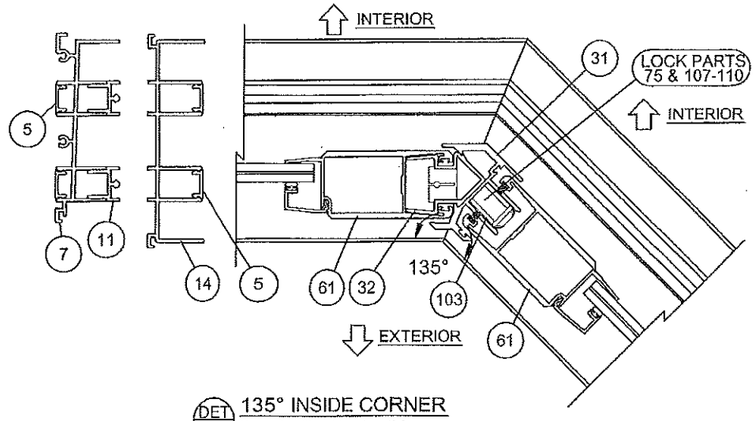


DET M INTERLOCK

* ITEM #61 (HEAVY-DUTY STILE) SHOWN, ITEM #60 (STANDARD STILE) ALSO APPLICABLE, SEE TABLES 1-3, SHEETS 6-8 FOR DP (PSF) ASSOCIATED WITH STILES.



DET O1 135° OUTSIDE CORNER 2-TRACK SHOWN



DET O2 135° INSIDE CORNER 2-TRACK SHOWN

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 17-0420.12
Expiration Date 02/17/2020
By Miami-Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

Revsd By:	Date:	Revisions:	
JR	04/05/17	C	NO CHANGES THIS SHEET.
Drawn By: JR	Date: 10/10/14	Checked By:	Date:

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
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Description: HORIZONTAL SECTION DETAILS, CORNERS
Title: SERIES 770 ALUM. SGD - LM IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD-770	NTS	19 of 22	PGT0130	C

Item	PGT Dwg. #	PGT #	Description
1	17306	617306	2-TRACK HEAD
2	17303	617303	2-TRACK HEAD WITH SCREEN RAIL
3	17309	617309	3-TRACK HEAD
4	17312	617312	4-TRACK HEAD
5	17314	617314	FRAME SCREW COVER
6	17317	617317	FRAME HEAD/JAMB ADD-ON
7	17304	617304	2-TRACK SILL
8	17301	617301	2-TRACK SILL WITH SCREEN RAIL
9	17307	617307	3-TRACK SILL
10	17310	617310	4-TRACK SILL
11	17313	617313	FRAME SILL TRACK INSERT
12	17315	617315	FRAME SILL SCREEN ADD-ON (SEE NOTE 3)
13	17316	617316	FRAME SILL SCREEN END ADD-ON (SEE NOTE 3)
14	17305	617305	2-TRACK JAMB
15	17302	617302	2-TRACK JAMB WITH SCREEN RAIL
16	17308	617308	3-TRACK JAMB
17	17311	617311	4-TRACK JAMB
18	17322	617322	SILL RISER - FLAT, FLUSH, 1-1/2"
19	17319	617319	SILL RISER - BOX, FLUSH, 1-1/2"
20	17321	617321	SILL RISER - FLAT, LOW, 2-1/2"
21	17318	617318	SILL RISER - BOX, LOW, 2-1/2"
22	17355	617355	SILL RISER - FLAT, MEDIUM, 3-1/4"
23	17354	617354	SILL RISER - BOX, MEDIUM, 3-1/4"
24	17323	617323	SILL RISER - FLAT, HIGH, 4"
25	17320	617320	SILL RISER - BOX, HIGH, 4"
26	17333	617333	POCKET P-HOOK
27	7070	67070	NEOPRENE BULB WSTP FOR P-HOOK
28	17334	617334	POCKET P-HOOK MOUNT
29	17335	617335	P-HOOK COVER
30	17348	617348	POCKET P-HOOK FOR BOX RISER
31	17378	617378	135 CORNER
32	17376	617376	135 FIXED MOUNT
ITEMS 40-53 ARE SCREEN PARTS:			
40	4319	612258	SCREEN SIDE RAIL - LOCKSTILE
41		7LOCKWGSK	SCREEN LOCKSET
42		41818	SCREEN KEEPER SPACER SET
43	8152	68152	SCREEN INTERLOCK ADAPTER
44	4428	64428	SCREEN DOUBLE INTERLOCK
45	4317	612256	SCREEN TOP RAIL
46	4318	612257	SCREEN BOTTOM RAIL
47	668	7SRAZ	STANDARD ROLLER
48	668	7SRAX	STANDARD ROLLER - ST. STL.
49	4344	64344	SCREEN ASTRAGAL
50	17349	617349	OXO SCREEN ASTRAGAL ADAPTER
51	1692	61692	SCREEN SPLINE - .165"
52	1694	61694	SCREEN SPLINE - .150"
53		61816C20	SCREEN CLOTH
54	1725		1/2" X 4" X 1/16" SET. BLOCK, NEOPRENE 85 +/-5
55	1726		1" X 4" X 1/16" SET. BLOCK, NEOPRENE 85 +/-5

Item	PGT Dwg. #	PGT #	Description
60	17325	617325	PANEL STILE
61	17326	617326	PANEL STILE (HEAVY DUTY)
62	17327	617327	INTERLOCK ADAPTOR
63	1225	6TP248	VINYL BULB WSTP. - THIN (INSIDE INTERLOCK)
64	1729	71729	SILL END WEATHERSTRIP PAD
65	17328	617328	INTERLOCK SCREW COVER
67	17329	617329	ASTRAGAL
68	17339	617339	HEAVY DUTY ASTRAGAL
69	17324	617324	TOP & BOTTOM RAIL
70	17350	417350	WEATHERSTRIP EXTENSION (INJECTION MOLDED)
71	1695	71695	1-1/2" X 1" X 3/4" HIGH FIN SEAL DUST PLUGS
72	8153	78153X	TANDEM ST. STL. ROLLER ASSY.
73	8153	78153N	TANDEM NYLON ROLLER ASSY.
74		SILICONE	DOW-899, DOW-995 OR GE-7700
75	8185	78185X	GEMINI MORTICE 3-PLY DUAL LOCK W/LONG TRIM PLATE
76		71032X1FPFX	#10-32 X 1" FL. SS SCREW W/ TYPE "F" TIP
77		7103239	10-32 STEEL ZINC U-NUT
79	17357	617357	1" IG BEAD
80	17359	617359	7/16" BEAD / FIXED PANEL CLIP
81	17360	617360	9/16" BEAD
82	1224	6TP247K	VINYL BULB WEATHERSTRIP
83	61745	1745	LOWE INC, 1/2" X 1/16" SGL. SIDE ADH. TAPE, POLYETH.
100	8052	48052	ROLLER ADJ. HOLE PLUG
101		72087	JAMB BUMPER
102	1696	71696	DUST PLUG
103	8186	78186X	1" KEEPER
104	653	7SDKEEP	SCREEN LOCK KEEPER
105	17344	617344	FIXED PANEL CLIP - 6" LONG
106	17352	617352	FIXED PANEL RETAINER - 9/16"
107	1739	71739	HANDLE KIT - INTERIOR RAISED WITH THUMB TURN
108	1740	71740	HANDLE KIT - RAISED EXTERIOR HANDLE
109	1731	78162SN	HANDLE KIT - RECESSED INTERIOR WITH THUMB TURN
110	1732	78178	HANDLE KIT - RECESSED EXTERIOR PULL
111		710X34PPSDAX	#10 X 3/4" PH. PN. TEK - S.S.
112	1235	67S16	WSTP, .270 X .170 - FIN SEAL
113	1712	64066	.187" X .230" FINSEAL
114		710X115PPX	#10 X 1-1/2"
115		710XPPT	#10 X 1"
116		720X1X	#14-20 X 1" S.S.
117		720X112X	#14-20 X 1-1/2" S.S.
118	17336	617336	90 DEGREE CORNER RECEIVER
119	17337	617337	90 DEGREE OUTSIDE CORNER ASTRAGAL
120	17338	6117338	90 DEGREE INSIDE CORNER ASTRAGAL
123	17352	617352	FIXED PANEL RETAINER, 7/8"

NOTES:
1) ALL ALUMINUM = 6063-T6

2) ITEMS # 33-39, 56-59, 66, 78, 84-99, 121 & 122 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.

3) USE OF #12 OR #13 REQUIRES MIN. #10 SMS OR 3/16" MASONRY ANCHORS @ 24" MAX. O.C.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0420.12
Expiration Date 02/17/2020
By
Miami-Dade Product Control

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

Revsd By:	Date:	Revisions:	
JR	04/05/17	C	NO CHANGES THIS SHEET.
Drawn By:	Date:	Checked By:	Date:
JR	10/10/14		

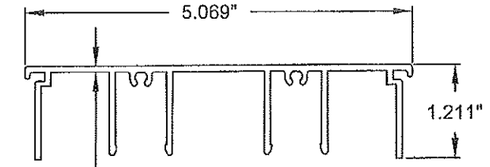
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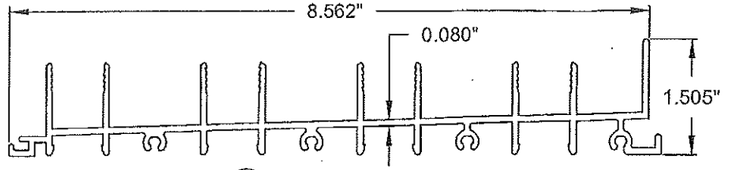
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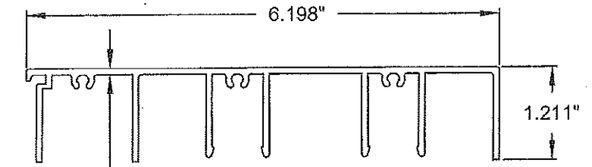
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SGD-770	NTS	20 of 22	PGT0130	C



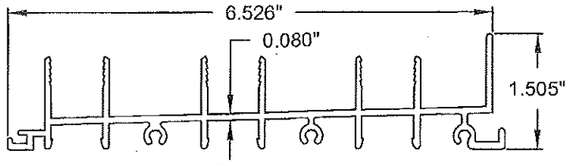
1 2-TRACK HEAD
(6063-T6 AL)



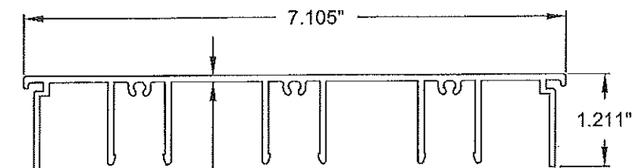
10 4-TRACK SILL
(6063-T6 AL)



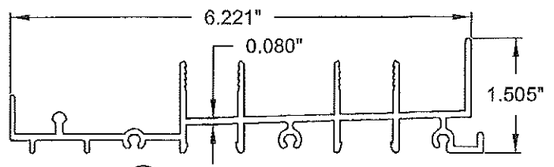
2 2-TRACK HEAD W/ SCREEN TRACK
(6063-T6 AL)



9 3-TRACK SILL
(6063-T6 AL)

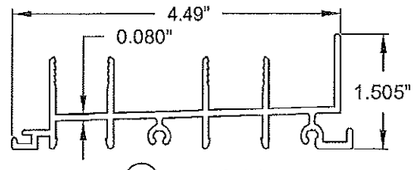


3 3-TRACK HEAD
(6063-T6 AL)

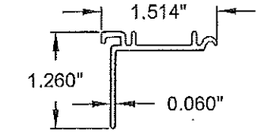


8 2-TRACK SILL W/ SCREEN TRACK
(6063-T6 AL)

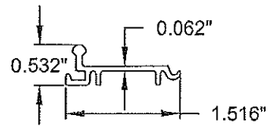
4 4-TRACK HEAD
(6063-T6 AL)



7 2-TRACK SILL
(6063-T6 AL)

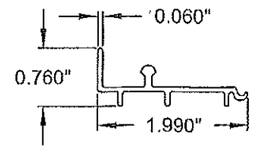


6 FRAME HEAD/JAMB SCREEN
ADD-ON
(6063-T6 AL)



12 FRAME SILL SCREEN
ADD-ON
(6063-T6 AL)

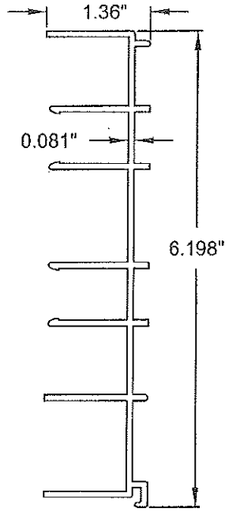
REQUIRES MIN. #10 SMS
OR 3/16" MASONRY
ANCHORS @ 24" MAX. O.C.



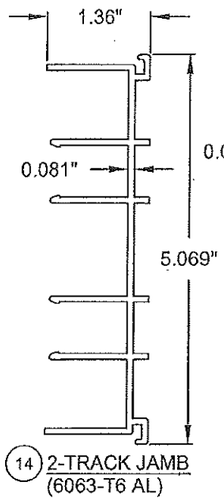
13 FRAME SILL SCREEN
END ADD-ON
(6063-T6 AL)

REQUIRES MIN. #10 SMS
OR 3/16" MASONRY
ANCHORS @ 24" MAX. O.C.

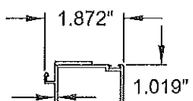
SEE SHEET 17 FOR SILL RISERS.



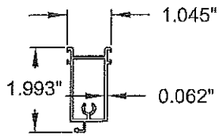
15 2-TRACK JAMB W/
SCREEN TRACK
(6063-T6 AL)



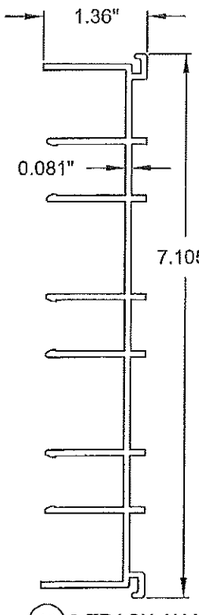
14 2-TRACK JAMB
(6063-T6 AL)



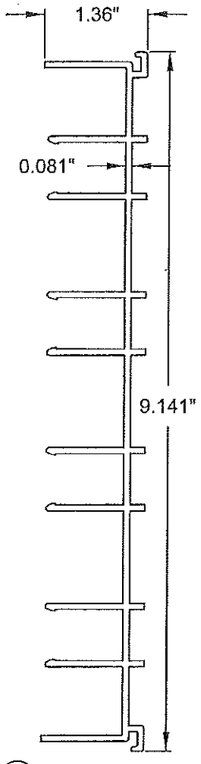
40 SCREEN
STILE
(6063-T6 AL)



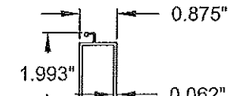
45 SCREEN
TOP RAIL
(6063-T6 AL)



16 3-TRACK JAMB
(6063-T6 AL)



17 4-TRACK JAMB
(6063-T6 AL)



46 SCREEN
BOTTOM RAIL
(6063-T6 AL)

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 17-0420.12
Expiration Date 02/17/2020
By
Miami–Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/18/17

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

Revsd By:	Date:	Revisions:	
JR	04/05/17	C	NO CHANGES THIS SHEET.
Drawn By: JR	Date: 10/10/14	Checked By:	Date:

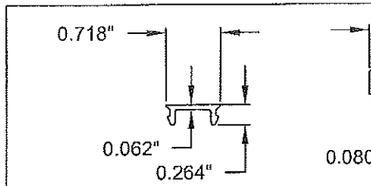
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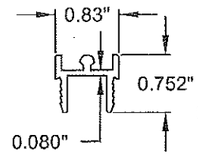
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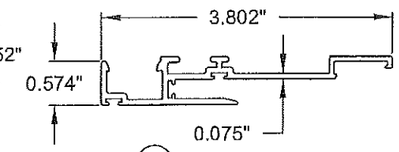
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SGD-770	NTS	21 of 22	PGT0130	C



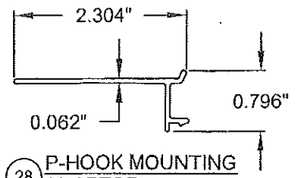
(5) FRAME SCREW COVER (6063-T6 AL)



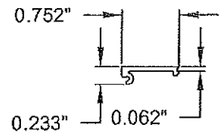
(11) SILL TRACK (6063-T6 AL)



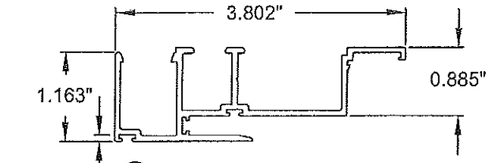
(26) P-HOOK (6063-T6 AL)



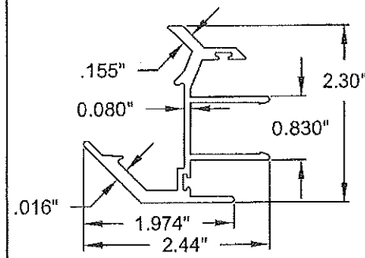
(28) P-HOOK MOUNTING ADAPTOR (6063-T6 AL)



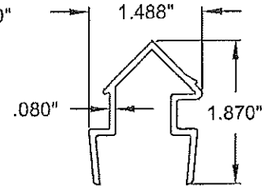
(29) P-HOOK SCREW COVER (6063-T6 AL)



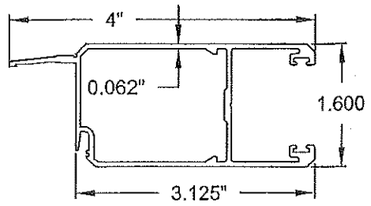
(30) P-HOOK FOR BOX RISER (6063-T6 AL)



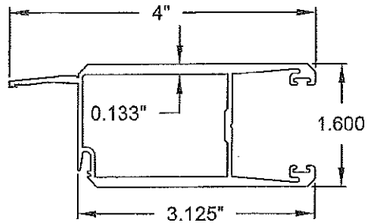
(31) 135° CORNER (6063-T6 AL)



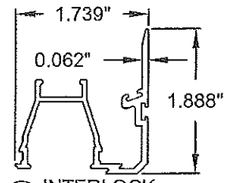
(32) 135° FIXED MOUNT (6063-T6 AL)



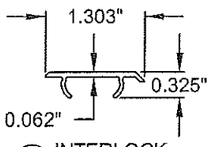
(60) STANDARD STILE (6063-T6 AL)



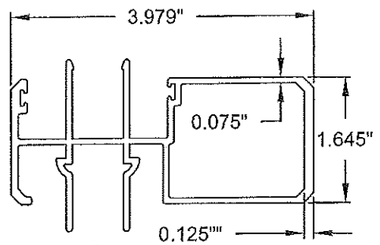
(61) HEAVY DUTY STILE (6063-T6 AL)



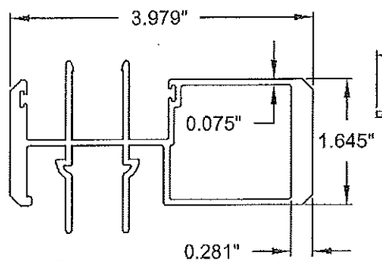
(62) INTERLOCK ADAPTER (6063-T6 AL)



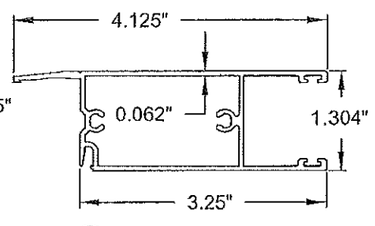
(65) INTERLOCK SCREW COVER (6063-T6 AL)



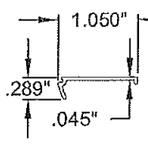
(67) STANDARD ASTRAGAL (6063-T6 AL)



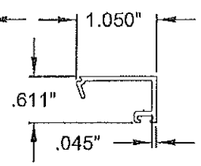
(68) HEAVY DUTY ASTRAGAL (6063-T6 AL)



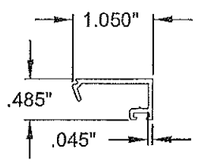
(69) TOP/BOTTOM RAIL (6063-T6 AL)



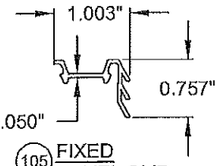
(79) GLAZING BEAD (I.G.) (6063-T6 AL)



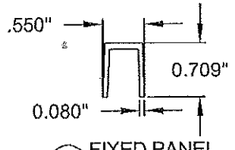
(80) 7/16" GLAZING BEAD, FIXED PANEL CLIP (6063-T6 AL)



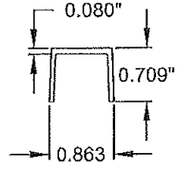
(81) 9/16" GLAZING BEAD (6063-T6 AL)



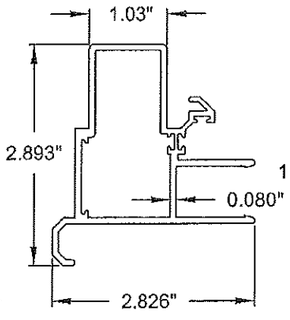
(105) FIXED PANEL CLIP (6063-T6 AL)



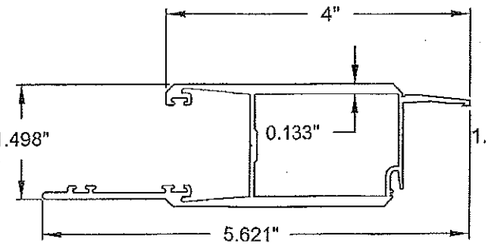
(106) FIXED PANEL RETAINER, 9/16" (6063-T6 AL)



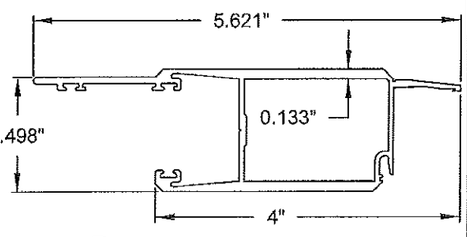
(123) FIXED PANEL RETAINER, 7/8" (6063-T6 AL)



(118) 90° CORNER RECEIVER (6063-T6 AL)



(119) 90° OUTSIDE CORNER ASTRAGAL (6063-T6 AL)



(120) 90° INSIDE CORNER ASTRAGAL (6063-T6 AL)

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0420.12
Expiration Date 02/17/2020
By Miami-Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 4/18/17 STATE OF FLORIDA PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

Revsd By:	Date:	Revisions:	
JR	04/05/17	C	NO CHANGES THIS SHEET.
Drawn By: JR	Date: 10/10/14	Checked By:	Date:

1070 TECHNOLOGY DRIVE
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(941) 480-1600

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Description: EXTRUSIONS
Title: SERIES 770 ALUM. SGD - LM IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD-770	NTS	22 of 22	PGT0130	C