



**DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)**

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

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

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA -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. PERA 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-770HP" Aluminum Sliding Glass Doors w / Reinforcements

APPROVAL DOCUMENT: Drawing No. PGT0004 Rev C, titled "Series 770 H.P. Aluminum SGD-LMI", sheets 1 through 10 of 10, prepared by manufacturer, dated 08/05/07 and last revised on 10/12/11, signed and sealed by 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 Missile Impact Resistant

Limitations:

1. See table 1 in sheet 4 of this approved drawing set for applicable SGD unit sizes, design pressures, reinforcements, glass types, sill riser and anchors requirements.
2. Egress operable doors must comply with min clear width per FBC, as applicable.
3. All laminated glazing options are with interior HS glass, see glazing options, sheet 1, 3 & 4.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", 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 # 09-0826.12 and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

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



4/22/11

**NOA No 11-1018.16
Expiration Date: March 24, 2015
Approval Date: December 01, 2011
Page 1**

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections (transferred from file # **09-0826.12**).
2. Drawing No. **PGT0004 Rev C**, titled "Series 770 H.P. Aluminum SGD-LMI", sheets 1 through 10 of 10, prepared by manufacturer, dated 08/05/07 and last revised on 10/12/11, signed and sealed by Lynn Miller, P.E.

B. TESTS (transferred from file # **09-0826.12**)

- Test report on
- 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, 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 (b) and TAS 202-94

Along with marked-up drawings and installation diagram of Aluminum Sliding Glass Doors, prepared by Fenestration Testing Laboratory, Inc., Test Report No **FTL-5998**, **FTL-6005** and **FTL-6012**, dated 08/10/09, all signed and sealed by Julio Gonzales, P.E.

Note: The test reports No. **FTL 5980** has been revised and reissued on 12/29/09, signed and sealed by Julio Gonzales, P.E.

C. CALCULATIONS

1. Statement letter dated OCT 14, 2011 of compliance to FBC 2007 & FBC 2010, prepared by PGT, signed & sealed by Lynn Miller, P.E.
2. Statement letter dated 10/07/11, Successor Engineer adopting the another engineer's work per FAR 61G15-27-001, signed & sealed by Lynn Miller, P.E.
3. Anchor verification and comparative analysis dated 08-24-09 and last revised on 12/15/09, prepared by PTC, LLC, Robert J. Amoruso, P. E. (transferred from file # **09-0826.12**)
4. Glazing complies with ASTM E-1300-02 &-04

D. QUALITY ASSURANCE

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

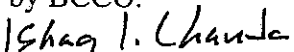
1. Notice of Acceptance No. **07-1116.04** issued to E.I. DuPont De Nemours & CO., Inc. for "DuPont SentryGlas ® Plus", expiring on 01/14/2012.
2. Notice of Acceptance No. **11-0624.01** issued to "E.I. DuPont Denemours" for "DuPont Butacite ® PVB", expiring on 12/11/16.

F. STATEMENTS

1. Statement letter dated OCT 14, 2011 of compliance to FBC 2007 & FBC 2010 and "No financial interest", prepared by PGT, signed & sealed by Lynn Miller, P.E.
1. Statement letter of conformance to FBC 2007 and no financial interest, dated 08-19-08, signed by Robert J. Amoruso, P.E.(transferred from file # **09-0826.12**)
2. Letter of lab compliance, part of the above test reports.

G. OTHER

1. This NOA revises # **09-0826.12**, expiring March 24, 2015.
2. Test proposals No(s) **09-0177**, **0177-A**, **B & C** approved by BCCO.


Ishaq I. Chanda, P.E.
Product Control Examiner

NOA No 11-1018.16
Expiration Date: March 24, 2015
Approval Date: December 01, 2011

GENERAL NOTES: SERIES 770 H.P. LMI SLIDING GLASS DOOR

DESIGN PRESSURE CHART (PSF)

SEE TABLES 1 & 1A, SHEET 4

- GLAZING TYPE OPTIONS: (GLASS RECIPES ARE FROM EXTERIOR TO INTERIOR)
GLASS STRENGTHS - T = TEMPERED HS = HEAT STRENGTHED
INTERLAYER TYPES - SGP = .090 DUPONT SENTRY GLAS PLUS DBPVB = .090 DUPONT BUTACITE PVB
G4 - 7/16" LAMINATED; (2) LITES OF 3/16" HS WITH AN .090 SGP INTERLAYER.
G4A - 9/16" LAMINATED; (2) LITES OF 1/4" HS GLASS WITH AN .090 SGP INTERLAYER.
G6 - 1" LAMINATED INSULATING GLASS; 3/16" T EXT. CAP + 3/8" AIR SPACE + 7/16" LAMINATED; (2) LITES OF 3/16" HS GLASS WITH AN .090 SGP INTERLAYER.
G6A - 1" LAMINATED INSULATING GLASS; 1/4" T EXT. CAP + 5/16" AIR SPACE + 7/16" LAMINATED; (2) LITES OF 3/16" HS GLASS WITH AN .090 SGP INTERLAYER.
- DESIGN PRESSURES: A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E 1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E 1300.
- 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 FLORIDA BUILDING CODE. FOR ANCHORAGE DETAILS SEE SHEETS 4 THROUGH 6.
- SHUTTERS ARE NOT REQUIRED.
- INSTALLATION SCREWS, FRAME AND PANEL CORNERS TO BE SEALED WITH NARROW JOINT SEALANT.
- REFERENCES: TEST REPORTS FTL-5998, FTL-6005 AND FTL-6012, DATED 8/7/09.
ELCO TEXTRON NCA: 07-0425.01, 03-0225.05, ANSIA/FAFA NDS-2005 FOR WOOD CONSTRUCTION AND ADM-2005 ALUMINUM DESIGN MANUAL
- THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DOOR SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER FLORIDA BUILDING CODE, AS APPLICABLE.
- CONFIGURATIONS: STRAIGHT DOORS - MAXIMUM 2 TRACKS BY 9 FT. (108") HIGH WITH A MAXIMUM OF FOUR 4 FT. NOMINAL WIDE DOOR PANELS.
SEE EXAMPLE ELEVATIONS AND PANEL CONFIGURATIONS ON SHEET 7.
D.L.O. WIDTH = NOMINAL PANEL WIDTH - 7"
D.L.O. HEIGHT = NOMINAL PANEL HEIGHT - 8.25"

NOA DRAWING MAP

SHEET

GENERAL NOTES.....	1
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NOTES PERTAINING TO ANCHORAGE DETAILS ON SHEET 5-6:

- FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ELCO 1/4" OR 5/16" ULTRACON (FORMERLY TAPCON) CONCRETE SCREWS OR 1/4" ELCO SS4 CRETE-FLEX. SEE TABLE ON THIS SHEET FOR EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS.
- FOR WOOD APPLICATIONS USE #12 STEEL SCREWS (G5). 1/4" ELCO SS4 CRETE-FLEX MAY BE USED INSTEAD OF #12 SCREWS.
- WOOD BUCKS DEFINED AS 1x ARE LESS THAN 1 1/2" THICK. 1x WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE. WOOD BUCKS DEFINED 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.
- FOR ATTACHMENT TO ALUMINUM: THE ALUMINUM SHALL BE A MINIMUM STRENGTH OF 6063-T5 AND A MINIMUM OF 1/8" THICK. THE ALUMINUM STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE DOOR FRAME SIMILAR TO THAT SHOWN IN THE DETAILS USING 2x WOOD BUCKS. THE ANCHORS SHALL BE #12 SHEET METAL SCREWS WITH FULL THREAD ENGAGEMENT INTO THE ALUMINUM. IF THESE CRITERIA ARE MET, THE FULL DESIGN PRESSURES USING ANCHORAGE REQUIREMENTS SHOWN IN TABLES 1, SHTS. 4, FOR ANCHOR TYPE 4 ARE ACCEPTABLE.
- IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, 3400 PSI MIN., (DONE BY OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. 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 comply with the Florida
Building Code
Acceptance No. 11-1013-16
Expiration Date 02/21/2015
By: [Signature]
Lynn Miller, P.E.

Type	Concrete		Un-Grounted CMU		Grounted CMU	
	Min. Emb.	Min. Ed.	Min. Emb.	Min. Ed.	Min. Emb.	Min. Ed.
Elco Ultracon	1 1/4"	1 3/8"	2 1/2"	1 1/4"	2 1/2"	1 3/4"
Elco Crete-Flex SS4	1 1/4"	1 3/4"	2 1/2"	1 1/4"	2 1/2"	1 3/4"

Type	Dia.	ft'
Elco Ultracon	1/4"	2700 psi
	5/16"	3500 psi
Elco Crete-Flex SS4	1/4"	3350 psi

Ungrouted CMU	ASTM C-80
Grounted CMU	ASTM C-90 with grout conforming to Sections 2105.2.1.2.1 and R609 of the FBC.

Type	Dia.	Head and Sill		Jamb	
		Min. Emb.	Min. Ed.	Min. Emb.	Min. Ed.
Elco Ultracon	1/4"	1 3/8"	2 1/2"	1 1/4"	2 1/2"
	5/16"	1 3/4"	1 1/4"	1 1/4"	1 3/4"
Elco Crete-Flex SS4	1/4"	1 3/4"	2 1/2"	1 1/4"	2 1/2"

Emb. = Embedment
Ed = Edge Distance
Min. = Minimum

Type	Min. Emb.	Min. Ed.
#12 Wood Screw	1 3/8"	1"
Elco Crete-Flex SS4	1 3/8"	1"

CONCRETE SCREWS STRENGTHS:
Fy MIN. = 135 KSI
Fu MIN. = 177 KSI

UNLESS OTHERWISE NOTED

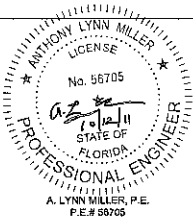
Revised By: J.J.	Date: 10/12/11	Revision: C	FBC 2010 CODE CHANGE
Revised By: SMC	Date: 02/23/10	Revision: B	PER MIAMI DADE COMMENTS
Revised By: SMC	Date: 11/18/09	Revision: A	PER MIAMI DADE COMMENTS
Drawn By: SMC	Date: 06/05/07	Checked By: RJA	Date: RJA

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 33475
P.O. BOX 1529
NOKOMIS, FL 33474

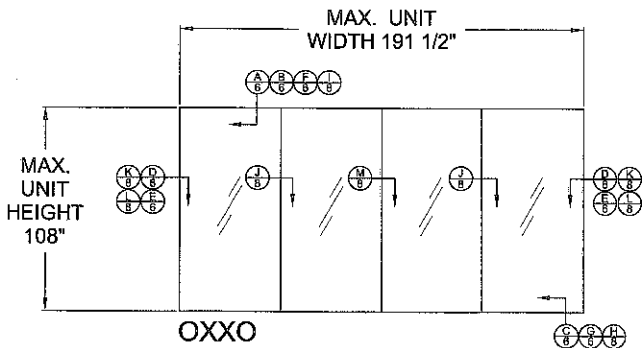
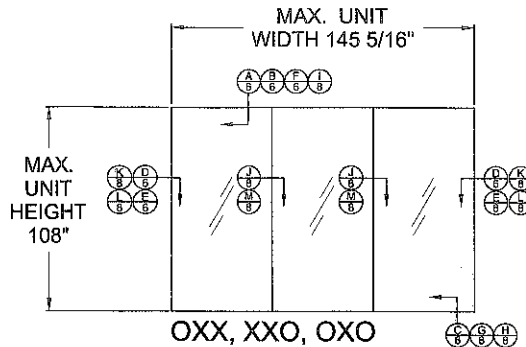
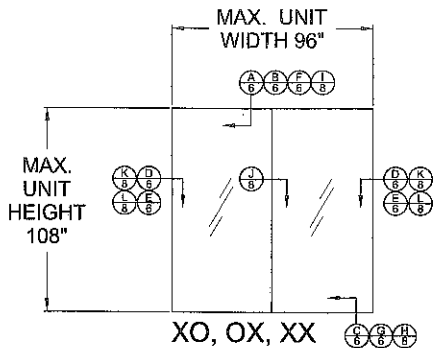


GENERAL NOTES AND MAP

Date: SERIES 770 H.P. ALUMINUM SGD - LMI	Scale: NTS	Sheet: 1 of 10	Drawn by: PGT0004	Rev: C
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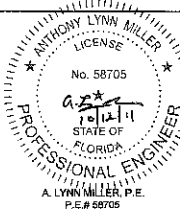


A. LYNN MILLER, P.E.
P.E.# 56705



APPROVED CONFIGURATIONS

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Amendment No. 11-1018-16
 Signature Date: 3/24/11
 By: *Anthony Lynn Miller*
 National Fire Protection Association

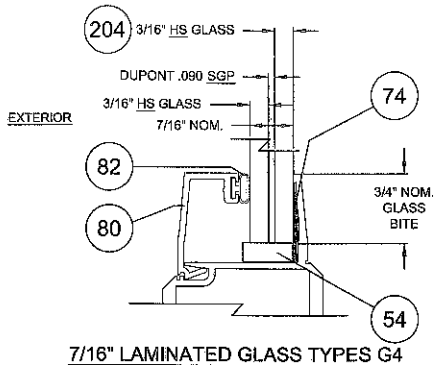


Revised By: J.J.	Date: 10/12/11	Revision: C	NO CHANGE THIS SHEET
Revised By: SMC	Date: 02/23/10	Revision: B	PER MIAMI DADE COMMENTS
Revised By: SMC	Date: 11/18/09	Revision: A	PER MIAMI DADE COMMENTS
Drawn By: SMC	Date: 08/05/09	Checked By: RJA	Date:

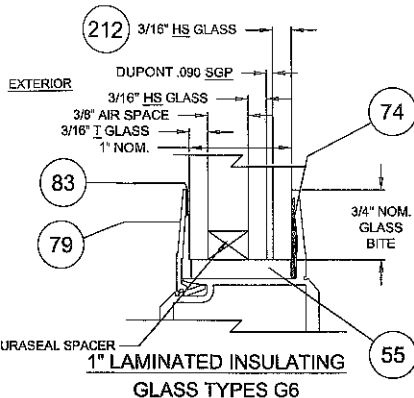
1070 TECHNOLOGY DRIVE
 NOKOMIS, FL 34275
 P.O. BOX 1529
 NOKOMIS, FL 34274



Description:	ELEVATIONS		
Title:	SERIES 770 H.P. ALUMINUM SGD - LMI		
Drawn/Checked:	Drawn:	Sheet:	Drawn by No.:
SGD770 H.P.	NTS	2 of 10	PGT0004
Rev.:	C		

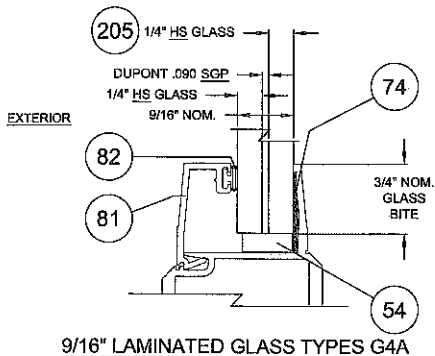


7/16" LAMINATED GLASS TYPES G4

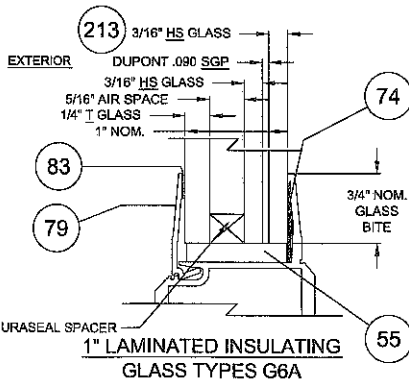


TRUSEAL DURASEAL SPACER
1" LAMINATED INSULATING
GLASS TYPES G6

SGP = DUPONT SENTRY GLAS PLUS



9/16" LAMINATED GLASS TYPES G4A



TRUSEAL DURASEAL SPACER
1" LAMINATED INSULATING
GLASS TYPES G6A

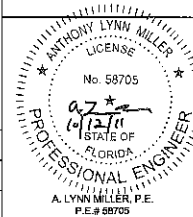
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-10-15-16
Expiration Date 3/24/15
By: *Shag J. L...*
Subject: *Fluoropolymer Coating*

Revised By: <i>v.j.d.</i>	Date: 10/12/11	Revision: C	NO CHANGE THIS SHEET
Drawn By: SMC	Date: 02/23/10	Revision: B	PER MIAMI DADE COMMENTS
Revised By: SMC	Date: 11/16/09	Revision: A	PER MIAMI DADE COMMENTS
Drawn By: SMC	Date: 06/05/09	Revision: RJA	

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



Company: GLAZING DETAILS	Series: SERIES 770 H.P. ALUMINUM SGD - LMI
Standard: SGT070 H.P.	Scale: NTS
Sheet: 3	Of: 10
Drawing No: PGT0004	Rev: C



DESIGN PRESSURE AND ANCHORAGE - HEAVY DUTY STILES - REINFORCED INTERLOCKS - HEAVY DUTY ASTRAGAL

TABLE 1.

> HEAD & SILL (H&S) INTERLOCK & STRAIGHT & CORNER ASTRAGAL CLUSTER PLUS INTERMEDIATE ANCHOR QTY. PER PANEL H & S.
 > JAMB ANCHOR QTY.

G4 - 7/16" LAMINATED GLASS - (3/16" H.S. / SGP / 3/16" H.S.)

G4A - 9/16" LAMINATED GLASS - (1/4" H.S. / SGP / 1/4" H.S.)

G6 - 7/16" LAMINATED I.G.U. - (3/16" TEMP. / AIR / 3/16" H.S. / SGP / 3/16" H.S.)

G6A - 7/16" LAMINATED I.G.U. - (1/4" TEMP. / AIR / 3/16" H.S. / SGP / 3/16" H.S.)

Anchor Types:

- 1) *1/4" ELCO ULTRA CON (FORMERLY TAPCON)
- 2) *1/4" S54 CRETE-FLEX
- 3) *5/16" ULTRA CON
- 4) *#12 STEEL SCREW (G6)

* SEE ANCHORAGE NOTES 1 & 2 ON SHEET 1.

NOM. PANEL WIDTH	FRAME SIDE	UNIT HEIGHT																	
		80			84			90			96			102			108		
		1,2 - CONC	3 - CONC	2,4 - WOOD	1,2 - CONC	3 - CONC	2,4 - WOOD	1,2 - CONC	3 - CONC	2,4 - WOOD	1,2 - CONC	3 - CONC	2,4 - WOOD	1,2 - CONC	3 - CONC	2,4 - WOOD	1,2 - CONC	3 - CONC	2,4 - WOOD
CLASS TYPE - 4, 4A, 6, 6A		+90 -110.0			+90 -110.0			+90 -110.0			+90 -110.0			+90 -110.0			+90 -110.0		
24	Anchor	H&S	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2
	JAMB	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CLASS TYPE - 4, 4A, 6, 6A		+90 -110.0			+90 -110.0			+90 -110.0			+90 -110.0			+90 -110.0			+90 -110.0		
30	Anchor	H&S	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2
	JAMB	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CLASS TYPE - 4, 4A, 6, 6A		+90 -110.0			+90 -110.0			+90 -110.0			+90 -110.0			+90 -110.0			+90 -110.0		
36	Anchor	H&S	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C7+2
	JAMB	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CLASS TYPE - 4, 4A, 5, 6A		+90 -110.0			+90 -110.0			+90 -110.0			+90 -110.0			+90 -110.0			+90 -110.0		
42	Anchor	H&S	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C7+2	C6+2	C6+2	C7+2	C6+2	C6+2
	JAMB	10	10	10	10	10	10	10	10	10	10	10	10	10	10	12	10	10	12
CLASS TYPE - 4, 4A, 6, 6A		+90 -110.0			+90 -110.0			+90 -110.0			+90 -110.0			+90 -110.0			+90 -110.0		
48	Anchor	H&S	C6+2	C6+2	C6+3	C6+2	C6+2	C6+3	C6+2	C6+2	C7+3	C6+2	C6+2	C7+3	C6+2	C6+2	C6+3	C6+2	C6+2
	JAMB	10	10	10	10	10	10	10	10	10	10	10	10	12	10	10	12	10	14

DLO WIDTH = NOM. PANEL WIDTH - 7"
 DLO HEIGHT = NOM. PANEL HEIGHT - 8.25"

○ = EXAMPLE ON SHEET 5

1. POSITIVE PRESSURES IN TABLE ARE BASED ON THE USE OF THE 4" SILL.
2. WHEN USING THE 2 1/2" SILL, POSITIVE DP IS 46.67 PSF MAX. AND WITH THE 3 1/4" SILL, POSITIVE PRESSURES IS 60.0 PSF MAX. (NEGATIVE PRESSURES UNCHANGED). SEE TABLE 1A ON THIS SHEET.
3. 2 1/2", 3 1/4" AND 4" 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. POSITIVE DESIGN PRESSURES SHOWN IN TABLE 1 MAY BE USED WHEN THE DOOR IS PROTECTED BY AN OVERHANG COMPLYING WITH THE FLORIDA BUILDING CODE (SEE ADJACENT DIAGRAM); THIS CONDITION IS NOT RATED FOR WATER INFILTRATION.
4. SEE SHEETS 5 & 6 FOR ANCHORAGE SPACING AND EMBEDMENT INFORMATION.
5. DOOR SIZE TO COMPLY WITH FBC EGRESS REQUIREMENTS.

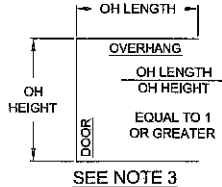
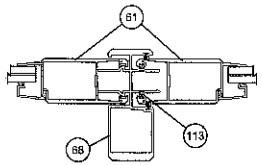


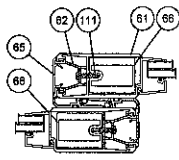
TABLE 1A
 SILL HT. VS POS. DP

SILL RISE HEIGHT	(+) DESIGN LOAD
FLUSH - 1-1/2"	N/A
LOW - 2-1/2"	+ 46.67 PSF
MED - 3-1/4"	+ 60.0 PSF
HIGH - 4"	+ 90.0 PSF

SEE NOTES 1-3



HEAVY DUTY ASTRAGAL HEAVY DUTY STILES



ALL INTERLOCKS TO BE REINFORCED

PRODUCT ADVISED
 60 complying with the Florida Building Code
 Amendment No. 11-1015-16
 Replaces Prev. 3/24/15
 By: *Kelvin Chan*
 Internal File Product Control

Revised By: J.J. Date: 10/12/11
 Approved: C
 NO CHANGE THIS SHEET

Revised By: SMC Date: 02/23/10
 Approved: B
 PER MIAMI DADE COMMENTS

Revised By: SMC Date: 11/18/09
 Approved: A
 PER MIAMI DADE COMMENTS

Drawn By: SMC Date: 8/5/09

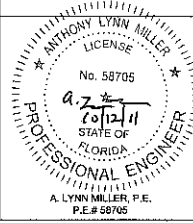
1070 TECHNOLOGY DRIVE
 NOKOMIS, FL 34275

P.O. BOX 1528
 NOKOMIS, FL 34274



Description: DP AND ANCHORAGE CHART
 SERIES 770 H.P. ALUMINUM SGD - LMI

Setup/Phase: SGD770/H.P. Size: NTS Sheet: 4 of 10 Drawing No.: PGT0004 Rev: C

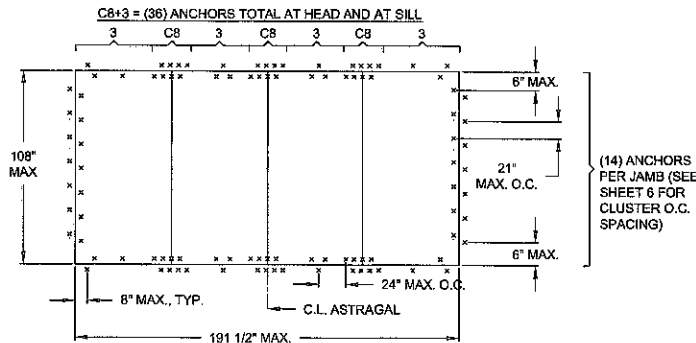
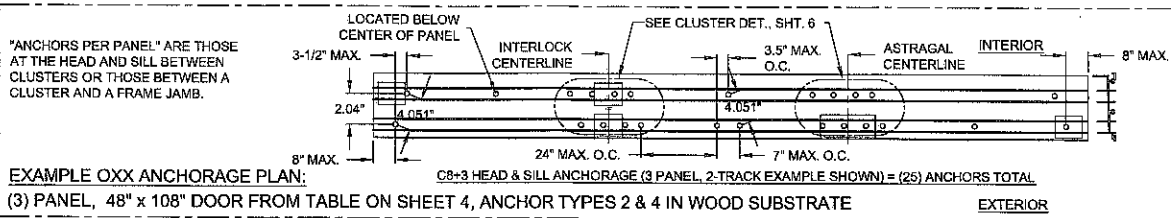


ANCHORAGE REQUIREMENTS NOTES:

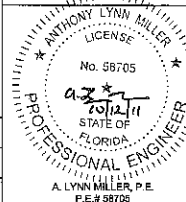
1. APPROVED ANCHOR TYPES: 1) 1/4" ELCO ULTRACON (FORMERLY TAPCON) 2) 1/4" ELCO SS4 CRETE-FLEX 3) 5/16" ULTRACON 4) #12 STEEL SCREW (G5)
2. ANCHOR LOCATION SPACING FOR ANCHOR QUANTITIES SPECIFIED IN TABLE 1 ON SHEET 4:

HEAD & SILL..... 8" MAX. FROM FRAME CORNERS. USE SPECIFIED CLUSTER FROM TABLE ON SHEET 4. AT EACH INTERLOCK AND ASTRAGAL LOCATION, PLUS SPECIFIED QUANTITY OF ADDITIONAL INTERMEDIATE ANCHORS PER PANEL (THE 8" FROM CORNER ANCHORS CAN BE INCLUDED). ADDITIONAL ANCHORS 24" MAX. ON CENTER.
SEE EXAMPLE ANCHORAGE PLANS BELOW AND EXAMPLE CLUSTERS AT ASTRAGAL / INTERLOCKS ON SHEET 6.

JAMBS..... 6" MAX. FROM BOTTOM AND 21" MAX. O.C. UTILIZING JAMB ANCHOR QUANTITIES FROM TABLE ON SHEET 4.



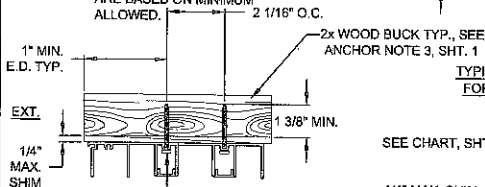
PRODUCT REVISED
in compliance with the Florida
Building Code
Amendment No. 11-1018-16
Administrative Order 2-12-2015
By: *Shawn L. Lane*
Edward Cook, Project Control



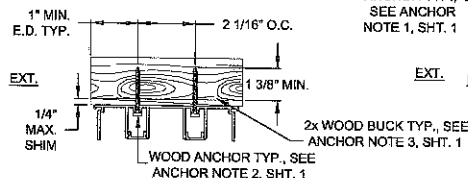
Revis: By: J.J. Date: 10/12/11 Revis: By: SMC Date: 02/23/10 Revis: By: SMC Date: 11/16/09 Revis: By: SMC Date: 08/08/09	Revis: C NO CHANGE THIS SHEET Revis: B PER MIAMI DADE COMMENTS Revis: A PER MIAMI DADE COMMENTS	1670 TECHNOLOGY DRIVE NOKOMS, FL 34275 P.O. BOX 1528 NOKOMS, FL 34274	Description: ANCHORAGE SPACING & EXAMPLE PLANS Title: SERIES 770 H.P. ALUMINUM SGD - LMI System/Model: SGD770 H.P.	Scale: NTS	Sheet: 5 of 10	Drawing No: PGT0004	Rev: C
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← EXTERIOR INTERIOR →
(ALL VERT. SECTIONS)

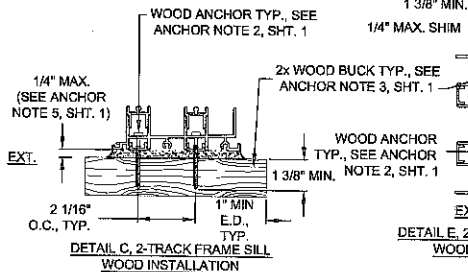
NOTE:
ALL DIMENSIONS SHOWN
ARE BASED ON MINIMUM
ALLOWED.



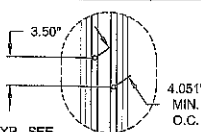
DETAIL A, 2-TRACK W/ SCREEN FRAME HEAD
WOOD INSTALLATION



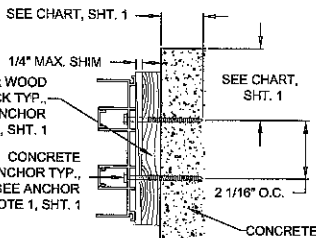
DETAIL B, 2-TRACK FRAME HEAD
WOOD INSTALLATION



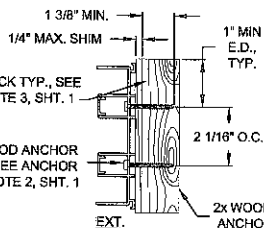
DETAIL C, 2-TRACK FRAME SILL
WOOD INSTALLATION



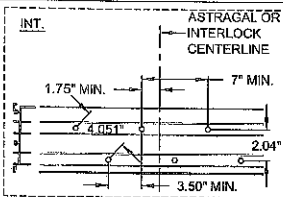
TYPICAL JAMB CLUSTER
FOR DETAILS 'D' & 'E'



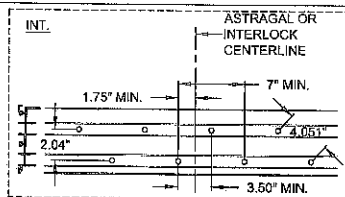
DETAIL D, 2-TRACK FRAME JAMB
CONCRETE INSTALLATION



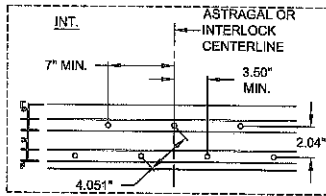
DETAIL E, 2-TRACK FRAME JAMB
WOOD INSTALLATION



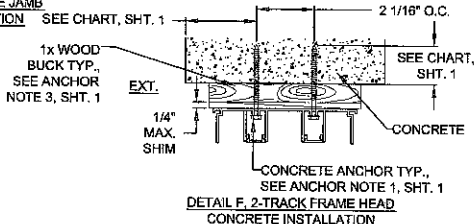
2-TRACK ASTRAGAL / INTERLOCK
6 ANCHOR CLUSTER



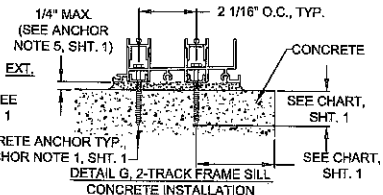
2-TRACK ASTRAGAL / INTERLOCK
8 ANCHOR CLUSTER



2-TRACK ASTRAGAL / INTERLOCK
ANCHOR CLUSTER - C7



DETAIL F, 2-TRACK FRAME HEAD
CONCRETE INSTALLATION



DETAIL G, 2-TRACK FRAME SILL
CONCRETE INSTALLATION

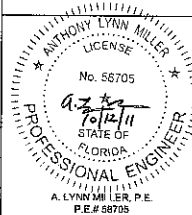
DESIGNED BY
IN CONSULTATION WITH THE FLORIDA
SHUTTING CLASH
ANCHORAGE No. 11-1018-16
REGISTRATION No. 312416
By *Anthony Lynn Miller*
Professional Engineer

Revised By: JLM	Date: 10/12/11	Revised On: C	NO CHANGE THIS SHEET
Revised By: SMC	Date: 02/23/10	Revised On: B	PER MIAMI DADE COMMENTS
Revised By: SMC	Date: 11/18/09	Revised On: A	PER MIAMI DADE COMMENTS
Drawn By: SMC	Date: 08/03/08	Checked By: RJA	

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



Designer: ANCHORAGE, EXAMPLE CLUSTERS	Scale: NTS	Sheet: 6 of 10	Drawing No: PGT0004	Doc: C
Title: SERIES 770 H.P. ALUMINUM SGD - LMI		Date/Rev: SGD770 H.P.		

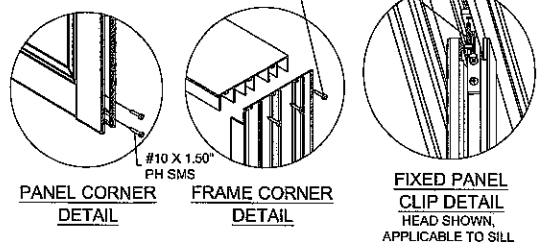
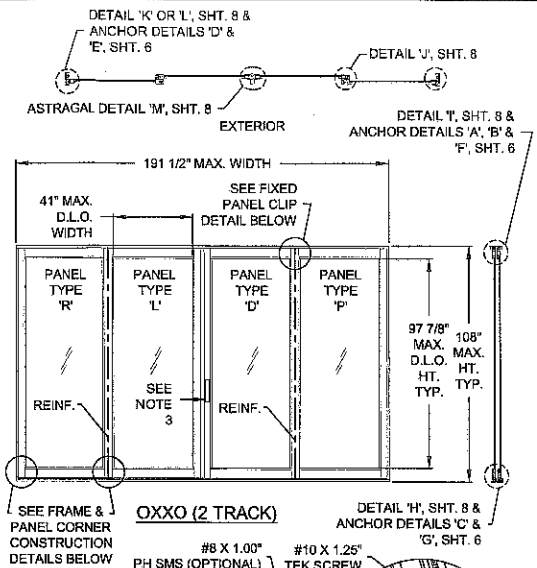


A. LYNN MILLER, P.E.
P.E.# 58705

PANEL LETTER			
K	SINGLE INTERLOCK		LOCKSTILE
A	SINGLE INTERLOCK		LOCKSTILE
D	LOCKSTILE		SINGLE INTERLOCK
M	LOCKSTILE		SINGLE INTERLOCK
L (BOX OUT)	SINGLE INTERLOCK		ASTRAGAL OUT
LR (BOX OUT)	ASTRAGAL OUT		SINGLE INTERLOCK
N (BOX OUT)	ASTRAGAL IN		SINGLE INTERLOCK
C (BOX IN)	SINGLE INTERLOCK		ASTRAGAL IN
P	SINGLE INTERLOCK		FIXED LOCKSTILE
R	FIXED LOCKSTILE		SINGLE INTERLOCK
T (BOX OUT)	ASTRAGAL OUT		FIXED LOCKSTILE
T (BOX IN)	ASTRAGAL IN		FIXED LOCKSTILE
S (BOX OUT)	FIXED LOCKSTILE		ASTRAGAL OUT
S (BOX IN)	FIXED LOCKSTILE		ASTRAGAL IN

↑ INTERIOR
(ALL PANEL TYPES)
↓ EXTERIOR

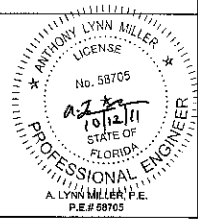
NOTE:
REINFORCEMENT REQUIRED AT ALL INTERLOCKS.



NOTES: 1. SEE THIS SHEET FOR INDIVIDUAL PANEL CONFIGURATIONS. MAX. NOMINAL PANEL WIDTH = 48". SEE SHT. 8 FOR SECTION DETAILS AND SHTS. 4-6 FOR ANCHORAGE DETAILS.
2. MAX. DLO WIDTH = 41" MAX. MAX. DLO HEIGHT = 97 7/8" MAX.
3. (1) LOCK (ITEMS 75 & 107-110) AT EACH LOCKSTILE, LOCKING INTO KEEPER (ITEM 103) AT FRAME JAMB OR ASTRAGAL.

NOTE:
1. MAXIMUM NOMINAL PANEL WIDTH FOR ALL PANEL CONFIGURATIONS EQUALS 48"

PRODUCT REVISED
in compliance with the Florida Building Code
Amendment No. 21-018-16
Effective Date 3/24/16
By: *[Signature]*
Michael Deke, Product Control



Revised By: J.J.	Date: 10/12/11	Revisions: C	NO CHANGE THIS SHEET
Revised By: SMC	Date: 02/23/10	Revisions: B	PER MIAMI DADE COMMENTS
Revised By: SMC	Date: 11/16/09	Revisions: A	PER MIAMI DADE COMMENTS
Drawn By: SMC	Date: 05/05/09	Checked By: RJA	Date:

1670 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

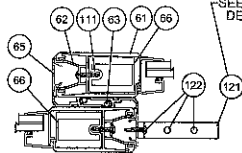


Discontinued
Title: **PANEL TYPES / EXAMPLE ELEVATIONS**

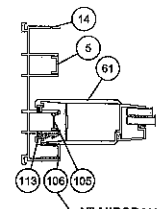
Series: **SERIES 770 H.P. ALUMINUM SGD - LMI**

Drawings: SGD770.H.P.	Scale: NTS	Sheets: 7	Total: 10	Drawing No.: PGT0004	Rev: C
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SEE FIXED PANEL CLIP
DETAIL, THIS SHEET

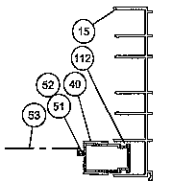


ALL REINFORCED INTERLOCK
DETAIL 'J'

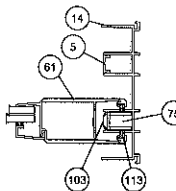


AT MIDSPAN
DETAIL 'K' (FIXED PANEL)

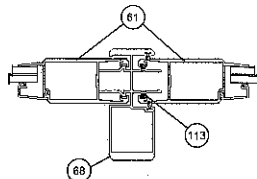
↑ INTERIOR
(ALL HORIZ. SECTIONS)
↓ EXTERIOR



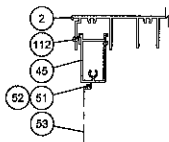
DETAIL 'P' SCREEN
AT JAMB



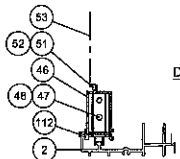
DETAIL 'L'



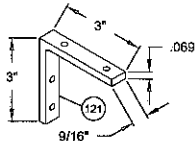
ASTRAGAL
DETAIL 'M'



DETAIL 'N' SCREEN
AT HEAD



DETAIL 'O' SCREEN
AT SILL

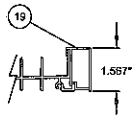


FIXED PANEL CLIP REQ'D AT TOP
(HEAD) & BOTTOM (SILL) OF FIXED "O"
PANELS. SEE SECTION "J" THIS SHT. &
FIXED PANEL CLIP DETAIL ON SHT. 7

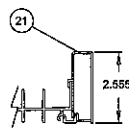
SILL RISERS OPTIONS

(SEE D.P. LIMIT TABLE 1A, SHEET 4)

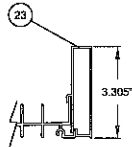
← EXTERIOR INTERIOR →
(ALL VERT. SECTIONS)



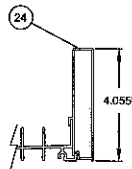
FLUSH BOX SILL RISER



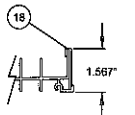
LOW BOX SILL RISER



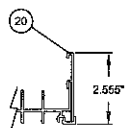
MEDIUM BOX SILL RISER



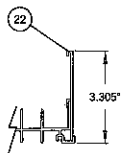
HIGH BOX SILL RISER



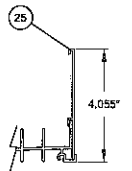
FLUSH FLAT SILL RISER



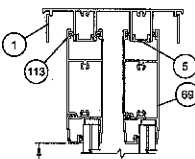
LOW FLAT SILL RISER



MEDIUM FLAT SILL RISER

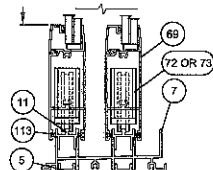


HIGH FLAT SILL RISER



DETAIL 'T'

97 7/8"
MAX.
DLO
TYP.



DETAIL 'H'

PRODUCT REVIEWED
as complying with the Florida
Building Code
Adopted on 11-10-18-16
Specimens No. 3124115
By *Shawn J. Long*
Licensed Design/Professional Engineer

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

Revised By: J.L.J.	Date: 10/12/11	Revised: C	NO CHANGE THIS SHEET
Revised By: SMC	Date: 02/23/10	Revised: B	PER MIAMI DADE COMMENTS
Revised By: SMC	Date: 11/18/09	Revised: A	PER MIAMI DADE COMMENTS
Drawn By: SMC	Date: 08/05/08	Checked By:	Date:

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



Vertical & Horizontal Section Details
SERIES 770 H.P. ALUMINUM SGD - LMI
Semi-tempered
SGD770 H.P. Bulk: NTS Count: B # 10 Drawing No: PGT0004 Rev: C

ITEM	PGT Dwg. #	PGT. #	Description
1	17306	617306	2-TRACK HEAD
2	17303	617303	2-TRACK HEAD WITH SCREEN RAIL
5	17314	617314	FRAME SCREW COVER
8	17317	617317	FRAME HEAD/JAMB ADD-ON
7	17304	617304	2-TRACK SILL
8	17301	617301	2-TRACK SILL WITH SCREEN RAIL
11	17313	617313	FRAME SILL TRACK INSERT
14	17305	617305	2-TRACK JAMB
15	17302	617302	2-TRACK JAMB WITH SCREEN RAIL
18	17322	617322	SILL RISER - 0
19	17319	617319	SILL RISER - 0 HOLLOW
20	17321	617321	SILL RISER - LOW FLAT
21	17318	617318	SILL RISER - LOW HOLLOW
22	17355	617355	SILL RISER - MED FLAT
23	17354	617354	SILL RISER - MED HOLLOW
24	17320	617320	SILL RISER - HIGH HOLLOW
25	17323	617323	SILL RISER - HIGH FLAT

40	4319	612258	SCREEN SIDE RAIL - LOCKSTILE
41		7LOCKWGSK	SCREEN LOCKSET
42		41018	SCREEN KEEPER SPACER SET
43	8162	88162	SCREEN INTERLOCK ADAPTER
44	4428	84428	SCREEN DOUBLE INTERLOCK
45	4317	612256	SCREEN TOP RAIL
46	4318	612257	SCREEN BOTTOM RAIL
47	698	7SRAZ	STANDARD ROLLER
48	688	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" SITTING BLOCK
55	1726		1" X 4" X 1/16" SITTING BLOCK

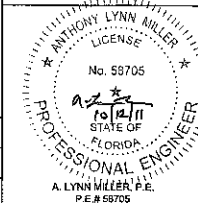
204		GLASS	7/16 LAMI HT-HT SGP
205		GLASS	9/16 LAMI HT-HT SGP
212		GLASS	LAMI IG 3/16" - 7/16 LAMI HT-HT SGP
213		GLASS	LAMI IG 1/4" - 7/16 LAMI HT-HT SGP

ITEM	PGT Dwg. #	PGT. #	Description
61	17326	617326	PANEL STILE (HEAVY DUTY)
62	17327	617327	INTERLOCK ADAPTOR
63	1225	61P246	VINYL BULB WSTP. - THIN (INSIDE INTERLOCK)
64	1729	617329	SILL END WEATHERSTRIP PAD
65	17328	617328	INTERLOCK SCREW COVER
66	17346	617346	INTERLOCK ALUM REINF. (PANEL - 9")
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 889 OR 995
75	8186	78186X	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 HORIZONTAL
80	17359	617359	7/16 BEAD HORIZONTAL
81	17360	617360	9/16 BEAD HORIZONTAL
82	1224	61P247K	VINYL BULB WEATHERSTRIP
83		IGTAPE	1/2" X 1/16" SINGLE SIDE ADHESIVE TAPE FOR IG BEAD

100	8052	48052	ROLLER ADJ. HOLE PLUG
101		72087	JAMB BUMPER
102	1696	71698	DUST PLUG
103	8186	78186X	1" KEEPER
104	653	7SDKPEE	SCREEN LOCK KEEPER
105	17344	617344	FIXED PANEL CLIP - 6" LONG
106	17352	617352	EXTERIOR FIXED PANEL RETAINER
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		710X4PPSDAX	#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		710X115PPFX	#10X 1 1/2"
115		710XPPT	#10X 1"
116		720X1X	#14-20 X 1" ST. STL.
117		720X112X	#14-20 X 1.5" ST. STL.
121	17353		"O" PANEL BRACKET
122			#10 X 1 1/4" TEK SCREW

NOTE: ALL ALUMINUM = 6063-T6

PRODUCT REVISED
to comply with the Florida
Building Code
Amendments No. 11-10-18-16
Specification No. 3-120-15
By 1.6.2019 J. L. Miller
86mm Draft (6/26/2019)



Revised By: J.L.M.	Date: 10/12/11	Revisions: C	NO CHANGE THIS SHEET
Revised By: SMC	Date: 02/23/10	Revisions: B	PER MIAMI DADE COMMENTS
Revised By: SMC	Date: 11/16/09	Revisions: A	PER MIAMI DADE COMMENTS
Drawn By: SMC	Date: 08/05/09	Checked By: RLK	

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

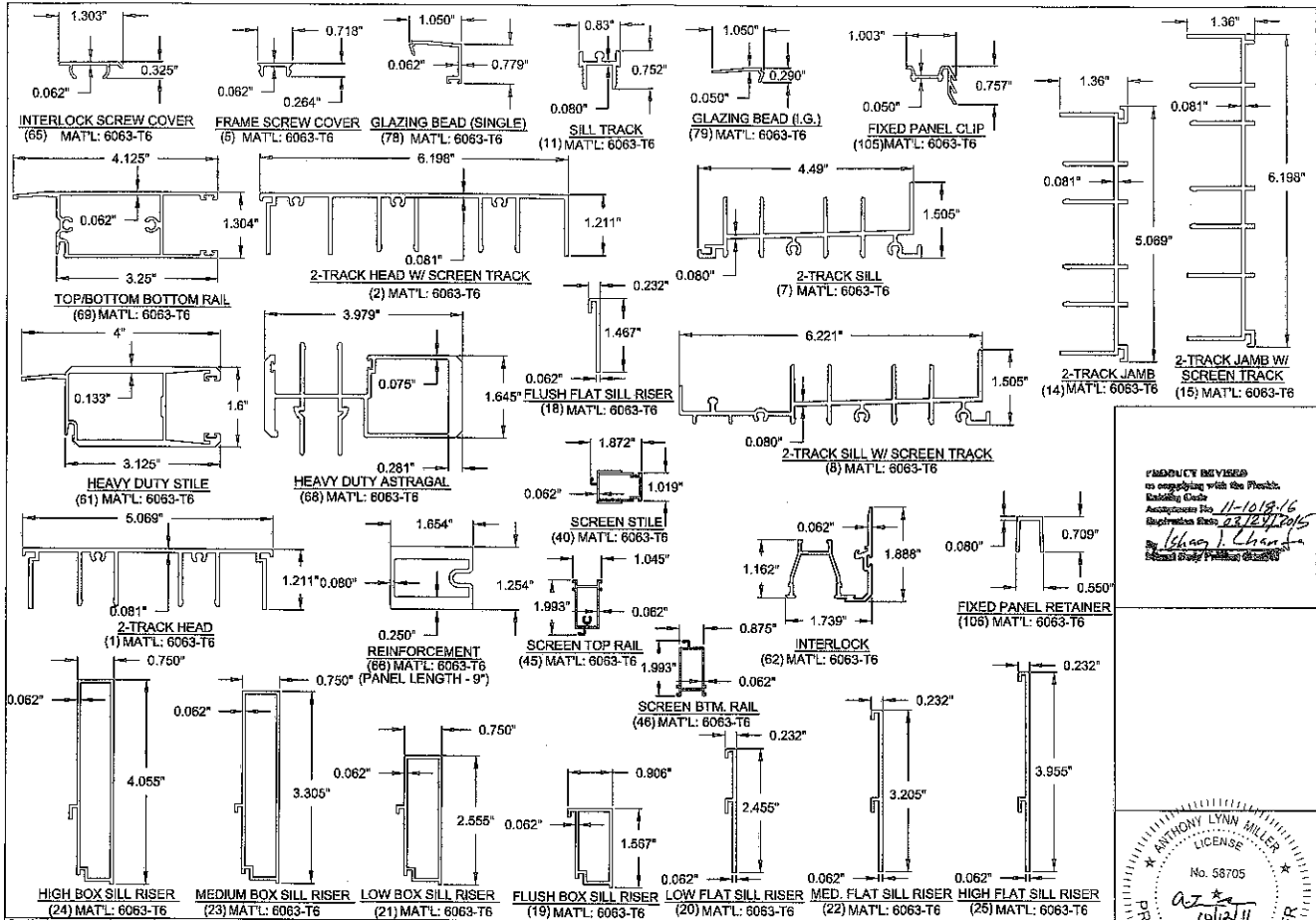


Description:

PARTS LIST

Title: **SERIES 770 H.P. ALUMINUM SGD - LMI**

Scale: NTS Sheet: 9 of 10 Drawing No: PGT0004 Rev: C



PRODUCT REVIEWED
 as supplied with the Florida
 Building Code
 Annotations No. 11-1018-16
 Specification No. 23-1241-16
 by *Shawn J. Chandra*
 Structural Steel Fabricator

Revised By: J.J.	Date: 10/12/11	Revisions: C	NO CHANGE THIS SHEET
Revised By: SMC	Date: 02/23/10	Revisions: B	PER MIAMI DADE COMMENTS
Revised By: SMC	Date: 11/16/09	Revisions: A	PER MIAMI DADE COMMENTS
Drawn By: SMC	Date: 08/05/09	Checked By: PLM	

1970 TECHNOLOGY DRIVE
 NOKOMIS, FL 34275
 P.O. BOX 1020
 NOKOMIS, FL 34274



Extrusions
EXTRUSIONS
 SERIES 770 H.P. ALUMINUM SGD - LMI
 Size/Label: NTS 10 x 10
 Drawing No. PGT0004
 Rev. C

