MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908
www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

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 by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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-670HP" Aluminum Sliding Glass Doors w / Reinforcements

APPROVAL DOCUMENT: Drawing No.**PGT0003**, titled "Series 770 H.P. Aluminum SGD-NI", sheets 1 through 10 of 10, prepared by PTC, LLC, dated 08/05/07 and last revised on 02-24-10, signed and sealed by Robert J. Amoruso, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

Limitation:

1. **Approved Hurricane Protection devices, complying w/ FBC, as applicable are required**
2. **See table 1, sheet 4 of this approved drawing set for applicable SGD unit sizes, design pressures, reinforcements, glass types, sill riser and anchors requirements.**

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state 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 consists of this page 1 as well as evidence sheet E-1 and approval document mentioned above.
The submitted documentation was reviewed by **Ishaq I. Chanda, P. E.**

MIAMI-DADE COUNTY APPROVED

3/3/10

PGT Industries

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No.**PGT0003**, titled "Series 770 H.P. Aluminum SGD-NI", sheets 1 through 10 of 10, prepared by PTC, LLC, dated 08/05/07 and last revised on 02-24-10, signed and sealed by Robert J. Amoruso, P.E.

B. TESTS

1. 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.

Along with marked-up drawings and installation diagram of Aluminum Sliding Glass Doors, prepared by Fenestration Testing Laboratory, Inc., Test Report No **FTL-5987, FTL-5987** and **FTL-5995**, dated 08/10/09, both signed & sealed by Julio Gonzales, P.E.

C. CALCULATIONS

1. 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.
2. Glazing complies with ASTME-1300-02 &-04

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of conformance and no financial interest, dated 08-19-09, signed by Robert J. Amoruso, P.E.
2. Letter of Lab compliance, part of the above test reports.

G. OTHER

1. Test proposals No(s) 09-0177, 0177-A, B & C approved by BCCO.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 09-0826.14
Expiration Date: March 24, 2015
Approval Date: March 24, 2010

GENERAL NOTES: SERIES 670 H.P. NON-IMPACT SLIDING GLASS DOOR

1. GLAZING TYPE OPTIONS: (GLASS RECIPES ARE FROM EXTERIOR TO INTERIOR)
   G1 - (1) LITE OF 3/16" TEMPERED GLASS.
   G1A - (1) LITE OF 1/4" TEMPERED GLASS.
   G2 - 1" I.G.: (1) LITE OF 3/16" TEMPERED GLASS + 5/8" AIR SPACE + (1) LITE OF 3/16" TEMPERED GLASS.
   G2A - 1" I.G.: (1) LITE OF 1/4" TEMPERED GLASS + 1/2" AIR SPACE + (1) LITE OF 1/4" TEMPERED GLASS.
2. 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.
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 FLORIDA BUILDING CODE. FOR ANCHORAGE DETAILS SEE SHEET 6.
4. SHUTTERS ARE REQUIRED 30' ABOVE GRADE.
5. INSTALLATION SCREWS, FRAME AND PANEL CORNERS TO BE SEALED WITH NARROW JOINT SEALANT.
6. REFERENCES: TEST REPORTS FTL-5987 AND FTL-5995, DATED 08/07/09
   ELCO TEXTRON NOA: 07-0425.01, 03-0225.05, ANSI/AF&PA NDS-2005 FOR WOOD CONSTRUCTION AND ADM-2005 ALUMINUM DESIGN MANUAL
7. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 2007 EDITION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
8. DOOR SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER FLORIDA BUILDING CODE, AS APPLICABLE.
9. CONFIGURATIONS: STRAIGHT DOORS - MAXIMUM 2 TRACKS BY 9 FT. (108") HIGH WITH A MAXIMUM OF FOUR 4 FT. NOMINAL WIDE DOOR PANELS.
   SEE EXAMPLE ELEVATION AND PANEL CONFIGURATIONS ON SHEET 7.
   D.L.O. WIDTH = NOMINAL PANEL WIDTH - 7"
   D.L.O. HEIGHT = NOMINAL PANEL HEIGHT - 8.25"

DESIGN PRESSURE CHART (PSF)

SEE TABLES 1 & 1A, SHEET 4

NOA DRAWING MAP

	SHEET
GENERAL NOTES	1
ELEVATIONS	2
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ANCHORAGE	4-6
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ELEVATIONS	7
CONFIGURATIONS	7
VERT. SECTIONS	8
HORIZ. SECTIONS	8
PARTS LIST	9
EXTRUSIONS	10

NOTES PERTAINING TO ANCHORAGE DETAILS ON SHEET 5-6:

1. 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.
2. FOR WOOD APPLICATIONS USE #12 STEEL SCREWS (G5). 1/4" ELCO SS4 CRETE-FLEX MAY BE USED INSTEAD OF #12 SCREWS.
3. WOOD BUCKS DEPICTED AS 1x ARE LESS THAN 1 1/2" THICK. 1x WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE. WOOD BUCKS DEPICTED AS 2x ARE 1 1/2" THICK OR GREATER. 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.
4. 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.
5. IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, 3400 PSI MIN., (DONE BY OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. 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.

Concrete Screw Anchorage Minimum Embedment and Minimum Edge Distance Requirements

		Head and Sill		Jambs			
		Concrete		Un-Grouted CMU		Grouted CMU	
Type	Dia.	Min. Emb.	Min. Ed	Min. Emb.	Min. Ed	Min. Emb.	Min. Ed
Elco Ultracon	1/4"	1 3/8	2 1/2	1 1/4	2 1/2	1 3/4	2 1/2
	5/16"	1 3/4	1 1/4	1 1/4	1 9/16	1 3/4	2 1/2
Elco Crete-Flex SS4	1/4"	1 3/4	2 1/2	1 1/4	2 1/2	Not Recommended	

Concrete Strength Requirements

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

Masonry Strength Requirements

Ungrouted CMU	ASTM C-90
Grouted CMU	ASTM C-90 with grout conforming to Sections 2105.2.2.1.2 and R609 of the FBC.

Definitions:

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

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

Wood Screws (Head, Sill & Jambs) in.

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

UNLESS OTHERWISE NOTED

Approved as complying with the Florida Building Code
Date MARCH 24, 2010
NOA# 09-0826.14
Miami Dade Product Control Division
By Ishaq I. Chaudhry

ROBERT JAMES AMORUSO
LICENSE No 49752
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Robert J. Amoruso, P.E.
PE #49752

Revsd By:	Date:	Revisions:	
SMC	02/23/10	B	PER MIAMI DADE COMMENTS
SMC	11/16/09	A	PER MIAMI DADE COMMENTS
Drawn By: SMC	Date: 08/05/07	Checked By: RJA	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

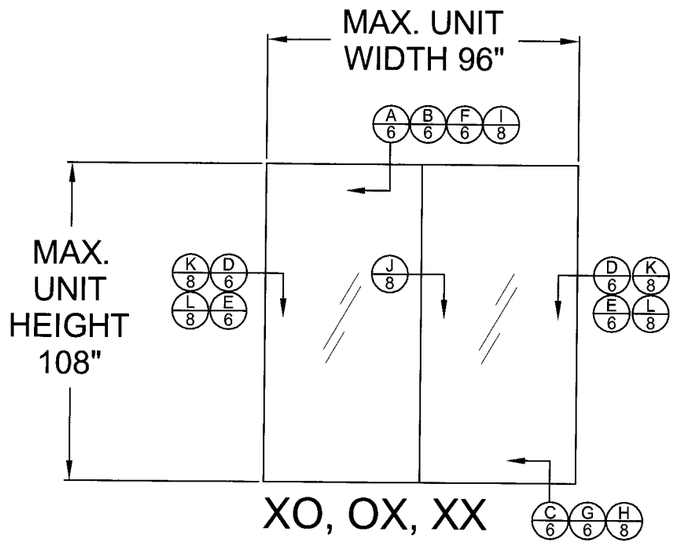
P.O. BOX 1529
NOKOMIS, FL 34274

Description: GENERAL NOTES AND MAP

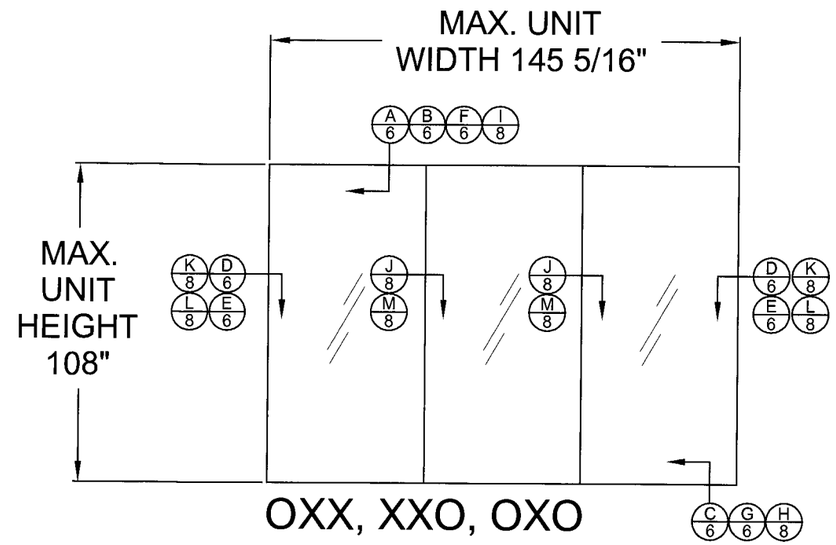
Title: SERIES 670 H.P. ALUM. SGD - NON-IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD670 H.P.	NTS	1 of 10	PGT0003	B

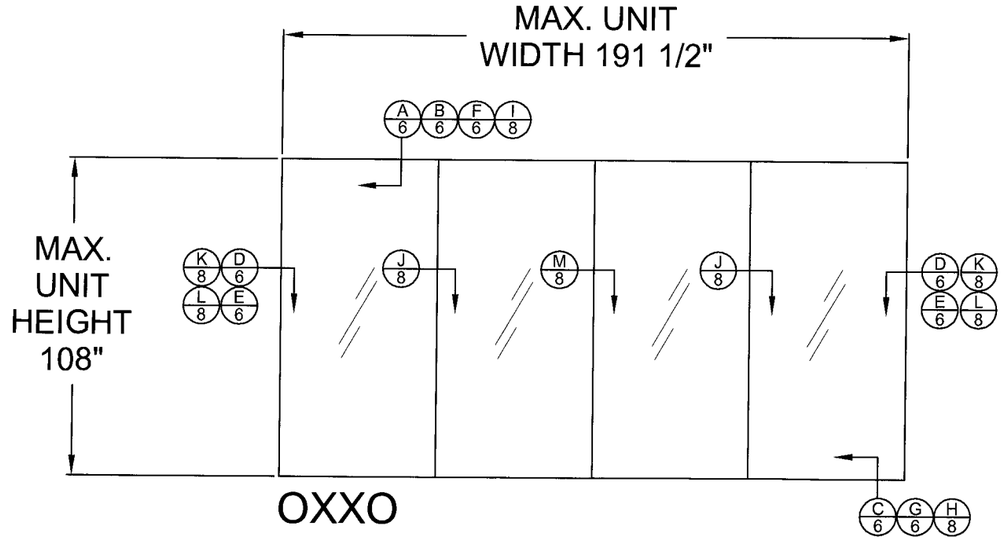
PREPARED BY: PTC, LLC 1535 N. COGSWELL ST., STE. C25, ROCKLEDGE, FL 32955, PH: 321-690-1788, FAX 321-690-1789



XO, OX, XX



OXX, XXO, OXO



OXXO

APPROVED CONFIGURATIONS

Approved as complying with the Florida Building Code
Date MARCH 24, 2010
NOA# 09-0826.14
Miami Dade Product Control Division
By Ishaq I. Chanda

ROBERT JAMES AMORUSO
LICENSE
No 49752
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Robert J. Amoruso, P.E.
PE #49752

Revsd By:	Date:	Revisions:	
Revsd By: SMC	Date: 02/23/10	Revisions: B	PER MIAMI DADE COMMENTS
Revsd By: SMC	Date: 11/16/09	Revisions: 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

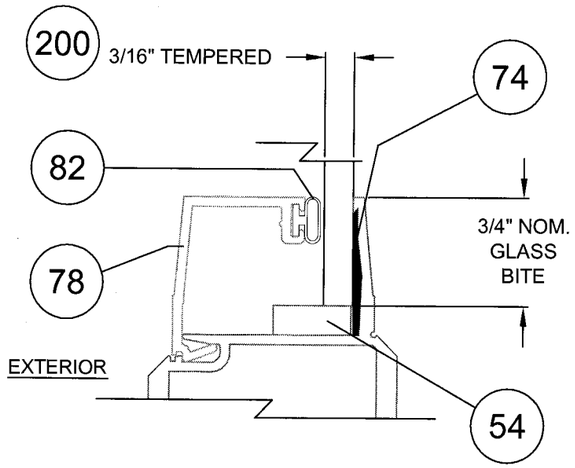
PGT®

Description: ELEVATIONS

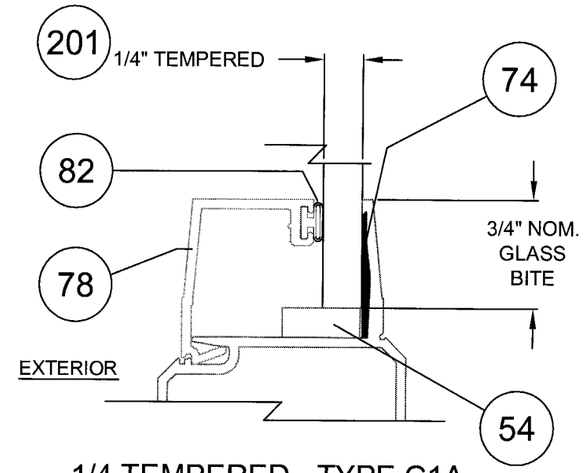
Title: SERIES 670 H.P. ALUM. SGD - NON-IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD670 H.P.	NTS	2 of 10	PGT0003	B

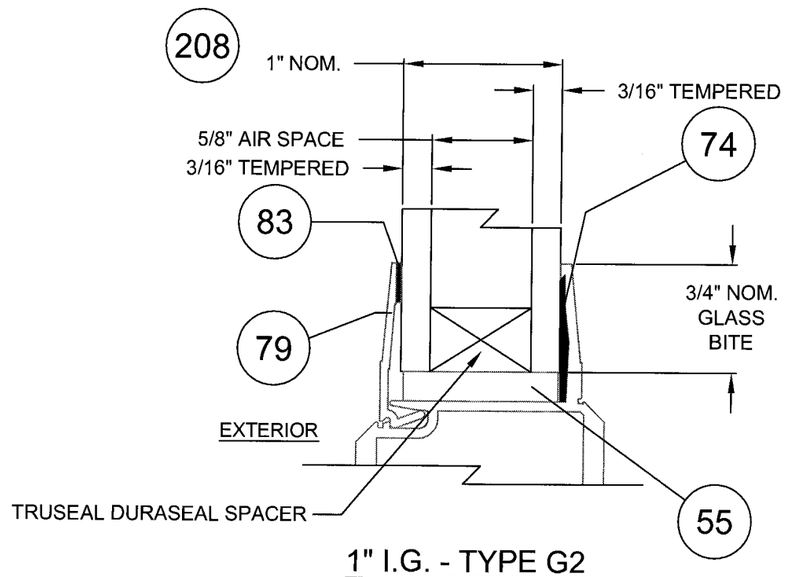
PREPARED BY: PTC, LLC 1535 N. COGSWELL ST., STE. C25, ROCKLEDGE, FL 32955. PH: 321-690-1788, FAX 321-690-1789



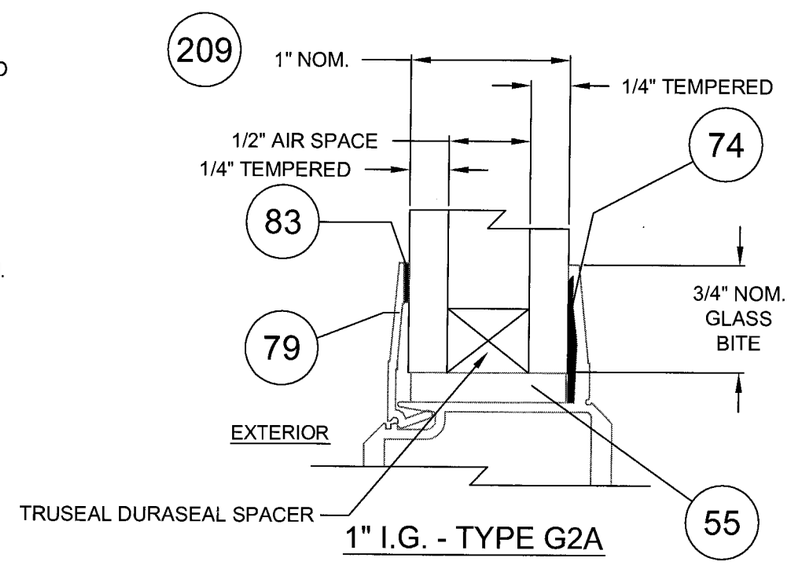
3/16" TEMPERED - TYPE G1



1/4 TEMPERED - TYPE G1A



1" I.G. - TYPE G2



1" I.G. - TYPE G2A

Approved as complying with the Florida Building Code
Date MARCH 24 2010
NOA# 09-0826.14
Miami Dade Product Control Division
By

ROBERT JAMES AMORUSO
LICENSE
No 49752
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Robert J. Amoruso, P.E.
PE #49752

Revsd By:	Date:	Revisions:	
Revsd By: SMC	Date: 02/23/10	Revisions: B	PER MIAMI DADE COMMENTS
Revsd By: SMC	Date: 11/16/09	Revisions: 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

PGT®

Description: GLAZING DETAILS

Title: SERIES 670 H.P. ALUM. SGD - NON-IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD670 H.P.	NTS	3 of 10	PGT0003	B

PREPARED BY: PTC, LLC 1535 N. COGSWELL ST., STE. C25, ROCKLEDGE, FL 32955, PH: 321-690-1788, FAX 321-690-1789

DESIGN PRESSURE AND ANCHORAGE- REINFORCEMENT- HIGH SILL RISER (4.00")

TABLE 1.

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

> JAMB ANCHOR QTY.

3/16" TEMPERED (Mono. & I.G.U.)
GLASS TYPE: G1 & G2
1/4" TEMPERED (Mono. & I.G.U.)
GLASS TYPE: G1A & G2A

Anchor Types:
1) *1/4" ELCO ULTRACON (FORMERLY TAPCON)
2) *1/4" SS4 CRETE-FLEX
3) *5/16" ULTRACON
4) *#12 STEEL SCREW (G5)
* 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
GLASS TYPE - G1, G1A, G2, G2A			+90 -209.0			+90 -209.0			+90 -209.0			+90 -209.0			+90 -205.3			+90 -192.5		
24	Anchors	H&S	C6+2	C6+2	C7+2	C6+2	C6+2	C7+2	C6+2	C6+2	C7+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2
		JAMB	10	10	10	10	10	12	10	10	12	10	10	12	10	10	14	10	10	14
GLASS TYPE - G1, G1A, G2, G2A			+90 -209.0			+90 -209.0			+90 -197.1			+90 -182.5			+90 -169.9			+90 -159.0		
30	Anchors	H&S	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2
		JAMB	10	10	12	10	10	12	10	10	14	10	10	14	10	10	14	10	10	14
GLASS TYPE - G1, G1A, G2, G2A			+90 -171.0			+90 -164.0			+90 -157.0			+90 -151.0			+90 -146.0			+90 -136.9		
36	Anchors	H&S	C6+2	C6+2	C7+2	C6+2	C6+2	C7+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2
		JAMB	10	10	12	10	10	12	10	10	12	10	10	12	10	10	14	10	10	14
GLASS TYPE - G1			+90 -153.0			+90 -142.0			+90 -128.0			+90 -118.0			+90 -110.0			+90 -104.0		
GLASS TYPE - G1A, G2, G2A			+90 -153.0			+90 -142.0			+90 -128.0			+90 -118.0			+90 -110.0			+90 -121.4		
42	Anchors	H&S	C6+2	C6+2	C7+3	C6+2	C6+2	C7+3	C6+2	C6+2	C7+2	C6+2	C6+2	C7+2	C6+2	C6+2	C7+2	C6+2	C6+2	C8+2
		JAMB	10	10	12	10	10	12	10	10	12	10	10	12	10	10	12	10	10	14
GLASS TYPE - G1			+90 -151.0			+90 -140.0			+90 -124.0			+90 -113.0			+90 -103.0			+90 -94.2		
GLASS TYPE - G1A, G2, G2A			+90 -151.0			+90 -140.0			+90 -124.0			+90 -113.0			+90 -118.5			+90 -110.0		
48	Anchors	H&S	C6+2	C6+2	C8+4	C6+2	C6+2	C8+3	C6+2	C6+2	C7+3	C6+2	C6+2	C7+3	C6+2	C6+2	C8+3	C6+2	C6+2	C8+3
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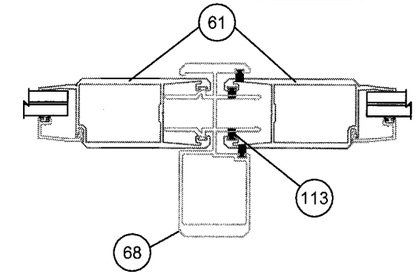
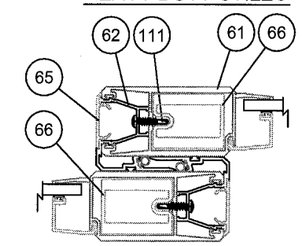


HEAVY DUTY ASTRAGAL
HEAVY DUTY STILES



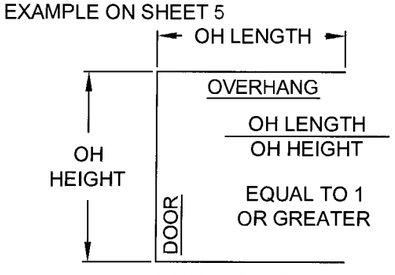
ALL INTERLOCKS TO BE REINFORCED

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 SHEET 6 FOR ANCHORAGE SPACING AND EMBEDMENT INFORMATION.
5. DOOR SIZE TO COMPLY WITH FBC EGRESS REQUIREMENTS.

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

= EXAMPLE ON SHEET 5

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	



SEE NOTE 3

Approved as complying with the Florida Building Code
Date MARCH 24 2010
NOA# 09-0826.14
Miami Dade Product Control Division
By [signature]

ROBERT JAMES AMORUSO
LICENSE
No 49752
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Robert J. Amoruso, P.E.
PE #49752

Revsd By:	Date:	Revisions:	
Revsd By: SMC	Date: 02/23/10	Revisions: B	PER MIAMI DADE COMMENTS
Revsd By: SMC	Date: 11/16/09	Revisions: A	PER MIAMI DADE COMMENTS
Drawn By: SMC	Date: 8/5/09	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

PGT®

Description: DP AND ANCHORAGE CHART

Title: SERIES 670 H.P. ALUM. SGD - NON-IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD670 H.P.	NTS	4 of 10	PGT0003	B

PREPARED BY: PTC, LLC 1535 N. COGSWELL ST., STE. C25, ROCKLEDGE, FL 32955, PH: 321-690-1788, FAX 321-690-1789

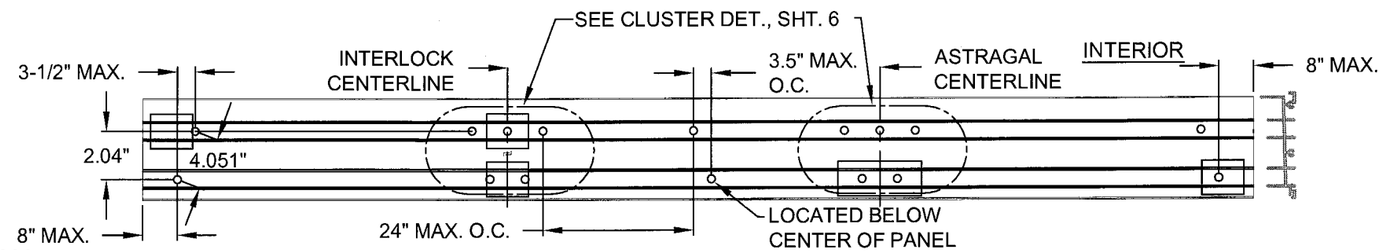
ANCHORAGE REQUIREMENTS NOTES:

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.

"ANCHORS PER PANEL" ARE THOSE AT THE HEAD AND SILL BETWEEN CLUSTERS OR THOSE BETWEEN A CLUSTER AND A FRAME JAMB.

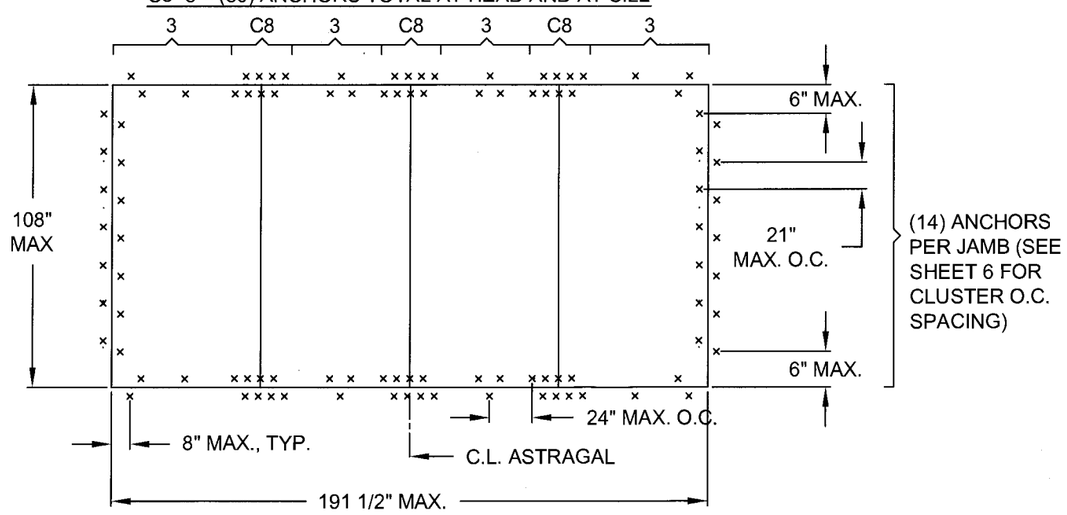


EXAMPLE OXX ANCHORAGE PLAN:

C5+3 HEAD & SILL ANCHORAGE (3 PANEL, 2-TRACK EXAMPLE SHOWN) = (16) ANCHORS TOTAL

(3) PANEL, 48" x 96" DOOR FROM TABLE ON SHEET 4, ANCHOR TYPES 1 & 2 IN CONCRETE SUBSTRATE

C8+3 = (36) ANCHORS TOTAL AT HEAD AND AT SILL



EXAMPLE OXXO ANCHORAGE PLAN:

(4) PANEL, 48" x 108" DOOR FROM TABLE ON SHEET 4, ANCHOR TYPES 2 & 4 IN WOOD SUBSTRATE

Approved as complying with the Florida Building Code
Date MARCH 24, 2010
NOA# 09-0826.14
Miami Dade Product Control Division
By

ROBERT JAMES AMORUSO LICENSE No 49752 STATE OF FLORIDA PROFESSIONAL ENGINEER

Robert J. Amoruso, P.E.
PE #49752

Revsd By:	Date:	Revisions:	
Revsd By: SMC	Date: 02/23/10	Revisions: B	PER MIAMI DADE COMMENTS
Revsd By: SMC	Date: 11/16/09	Revisions: A	PER MIAMI DADE COMMENTS
Drawn By: SMC	Date: 08/05/09	Checked By: RJA	Date:

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Description: ANCHORAGE SPACING & EXAMPLE PLANS

Title: SERIES 670 H.P. ALUM. SGD - NON-IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD670 H.P.	NTS	5 of 10	PGT0003	B

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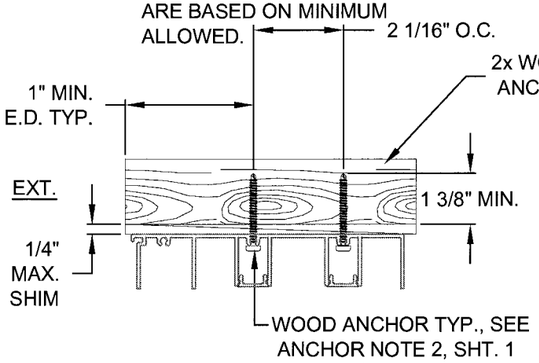
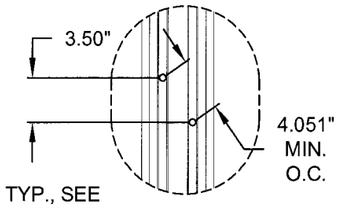
EXTERIOR INTERIOR
(ALL VERT. SECTIONS)

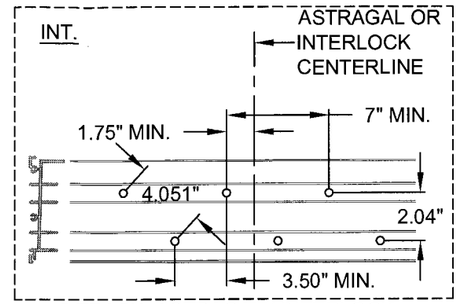
NOTE:
ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.



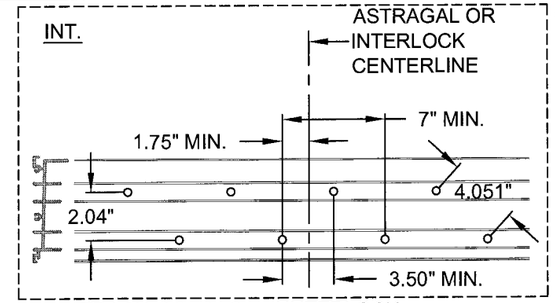
DETAIL A, 2-TRACK W/ SCREEN FRAME HEAD WOOD INSTALLATION



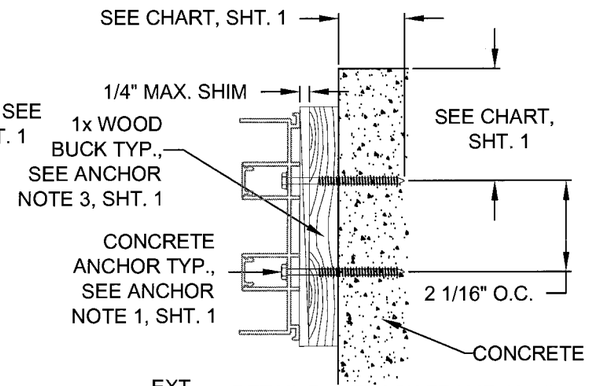
TYPICAL JAMB CLUSTER FOR DETAILS "D" & "E"



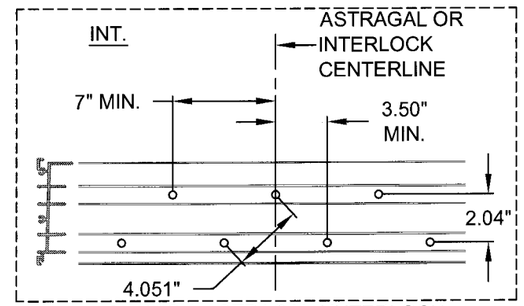
2-TRACK, ASTRAGAL / INTERLOCK 6 ANCHOR CLUSTER



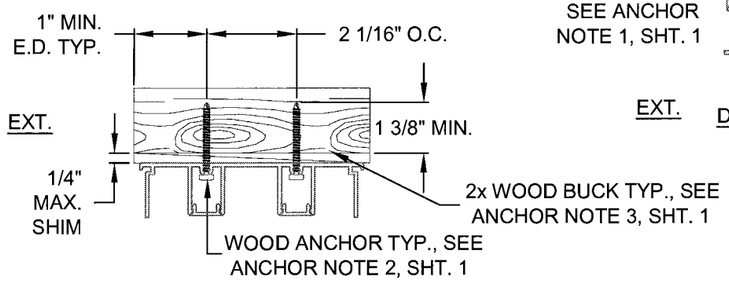
2-TRACK, ASTRAGAL / INTERLOCK 8 ANCHOR CLUSTER



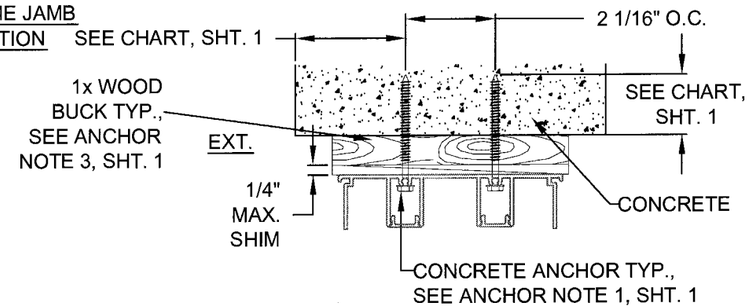
DETAIL D, 2-TRACK FRAME JAMB CONCRETE INSTALLATION



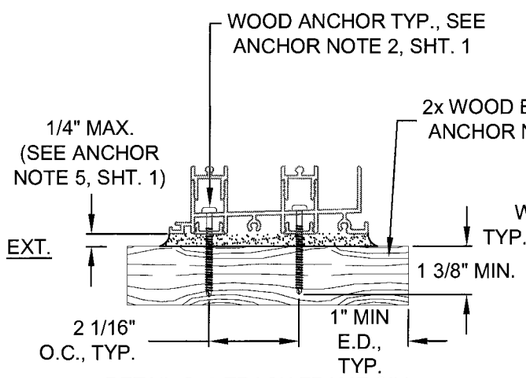
2-TRACK, ASTRAGAL / INTERLOCK ANCHOR CLUSTER - C7



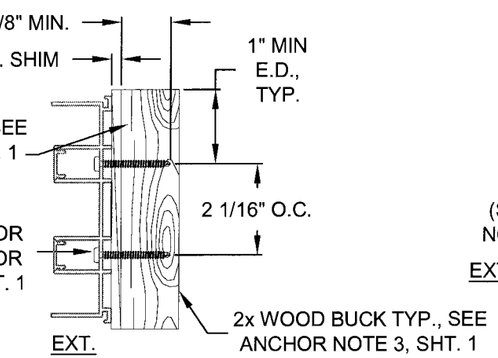
DETAIL B, 2-TRACK FRAME HEAD WOOD INSTALLATION



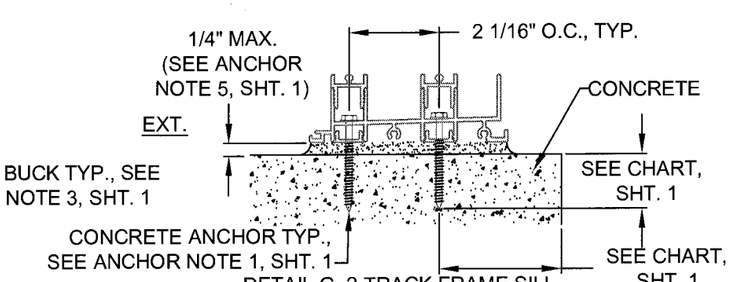
DETAIL F, 2-TRACK FRAME HEAD CONCRETE INSTALLATION



DETAIL C, 2-TRACK FRAME SILL WOOD INSTALLATION



DETAIL E, 2-TRACK FRAME JAMB WOOD INSTALLATION



DETAIL G, 2-TRACK FRAME SILL CONCRETE INSTALLATION

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Date MARCH 24, 2010
NOA# 09-0826.14
Miami Dade Product Control Division
By Shaq L. Chandler

ROBERT JAMES AMORUSO LICENSE No 49752 STATE OF FLORIDA PROFESSIONAL ENGINEER

Robert J. Amoruso, P.E.
PE #49752

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1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

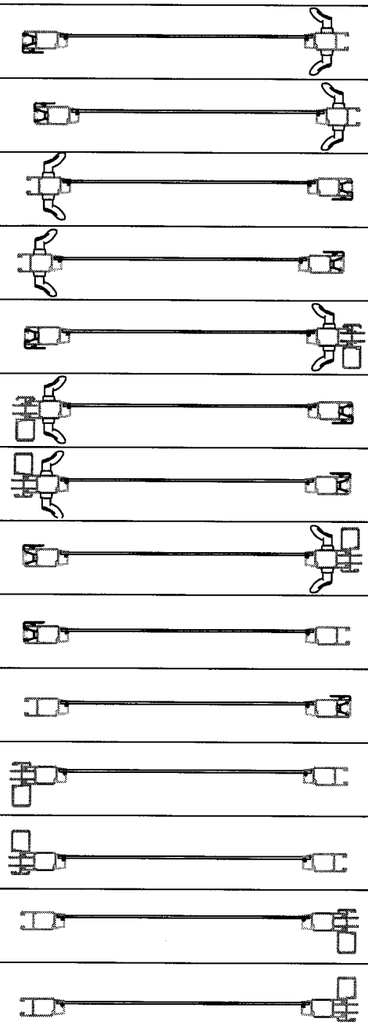
Description: ANCHORAGE, EXAMPLE CLUSTERS

Title: SERIES 670 H.P. ALUM. SGD - NON-IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD670 H.P.	NTS	6 of 9	PGT0003	B

PREPARED BY: PTC, LLC 1535 N. COGSWELL ST., STE. C25, ROCKLEDGE, FL 32955, PH: 321-690-1788, FAX 321-690-1789

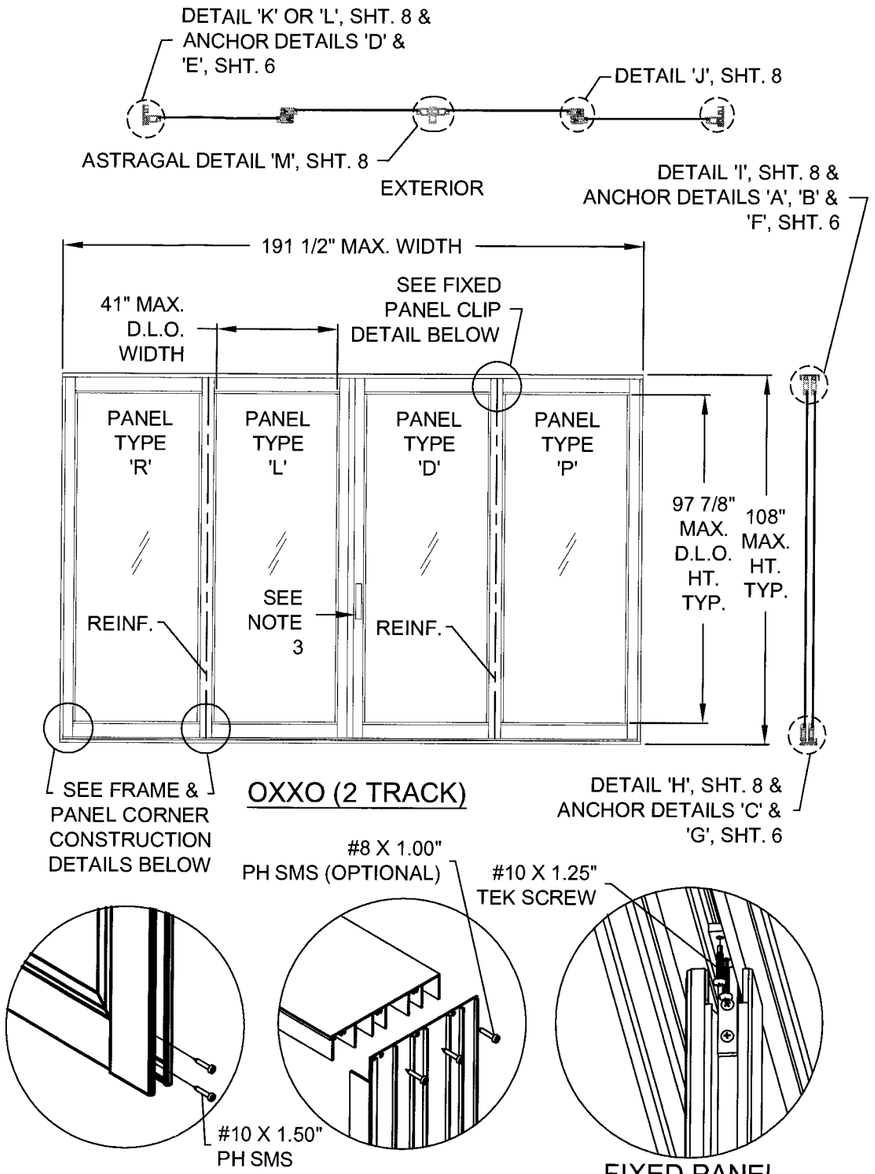
PANEL LETTER		
K	SINGLE INTERLOCK	LOCKSTILE
A	SINGLE INTERLOCK	LOCKSTILE
D	LOCKSTILE	SINGLE INTERLOCK
M	LOCKSTILE	SINGLE INTERLOCK
L (BOX OUT)	SINGLE INTERLOCK	ASTRAGAL OUT
LR (BOX OUT)	ASTRAGAL OUT	SINGLE INTERLOCK
N (BOX OUT)	ASTRAGAL IN	SINGLE INTERLOCK
C (BOX IN)	SINGLE INTERLOCK	ASTRAGAL IN
P	SINGLE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



OXXO (2 TRACK)

PANEL CORNER DETAIL

FRAME CORNER DETAIL

FIXED PANEL CLIP DETAIL
HEAD SHOWN, SILL APPLICABLE

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"

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NOA# 09-0826.14
Miami Dade Product Control Division
By Ishaq I. Chanda

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LICENSE
No 49752
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Robert J. Amoruso, P.E.
PE #49752

Revsd By:	Date:	Revisions:	
SMC	02/23/10	B	PER MIAMI DADE COMMENTS
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Description: PANEL TYPES / EXAMPLE ELEVATIONS

Title: SERIES 670 H.P. ALUM. SGD - NON-IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD670 H.P.	NTS	7 of 10	PGT0003	B

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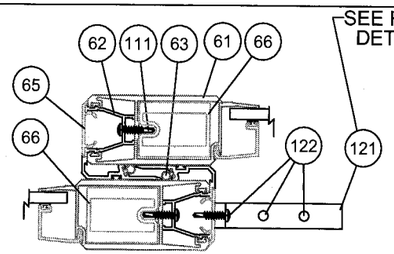
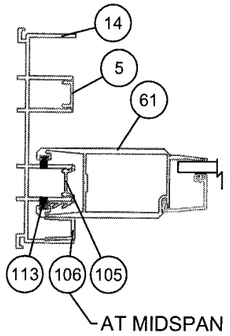


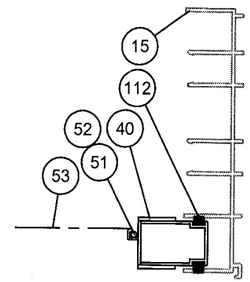
ALL REINFORCED INTERLOCK

DETAIL 'J'

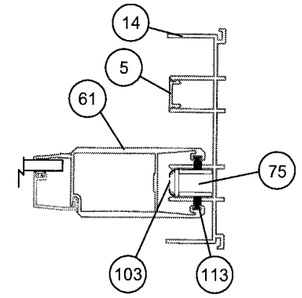


DETAIL 'K' (FIXED PANEL)

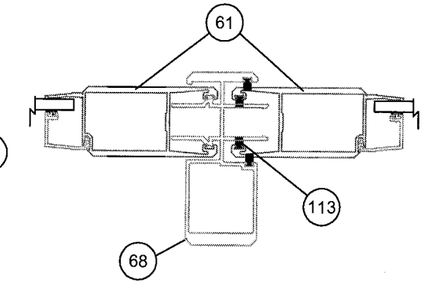
INTERIOR
(ALL HORIZ. SECTIONS)
EXTERIOR



DETAIL 'P' SCREEN AT JAMB

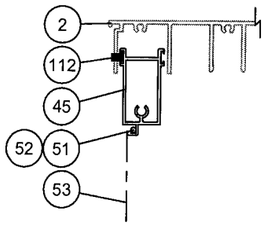


DETAIL 'L'

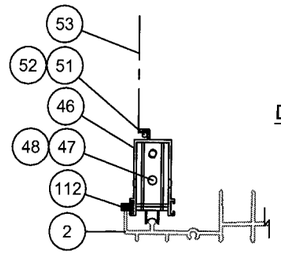


ASTRAGAL

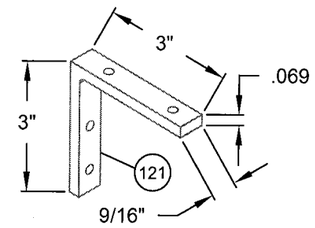
DETAIL 'M'



DETAIL 'N' SCREEN AT HEAD



DETAIL 'O' SCREEN AT SILL

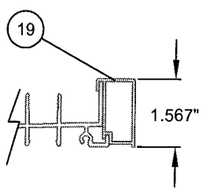


FIXED PANEL CLIP REQ'D AT TOP (HEAD) & BOTTOM (SILL) OF FIXED "O" PANELS. SEE SECTION "J" THIS SHT. & FIXED PANEL CLIP DETAIL ON SHT. 7

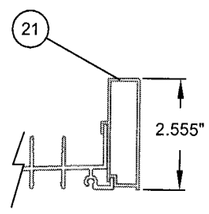
SILL RISERS OPTIONS

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

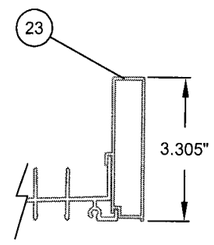
EXTERIOR INTERIOR
(ALL VERT. SECTIONS)



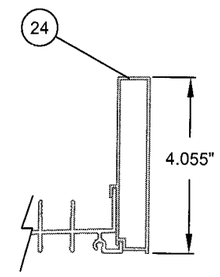
FLUSH BOX SILL RISER



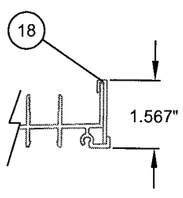
LOW BOX SILL RISER



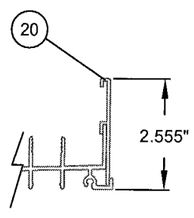
MEDIUM BOX SILL RISER



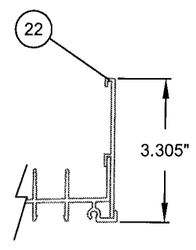
HIGH BOX SILL RISER



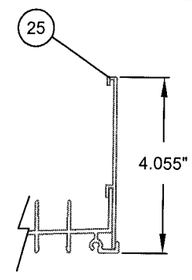
FLUSH FLAT SILL RISER



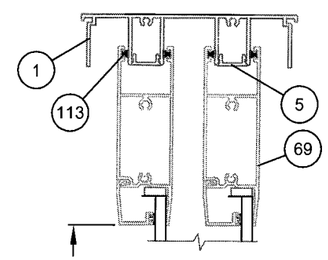
LOW FLAT SILL RISER



MEDIUM FLAT SILL RISER



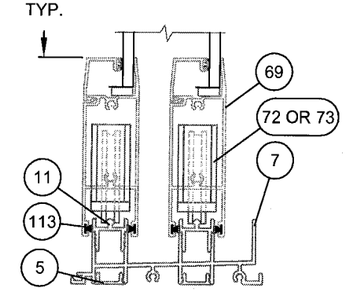
HIGH FLAT SILL RISER



97 7/8"
MAX.
DLO
TYP.

DETAIL 'I'

EXT.



DETAIL 'H'

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Miami Dade Product Control Division
By

STATE OF FLORIDA
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PGT®

Description: VERTICAL & HORIZONTAL SECTION DETAILS

Title: SERIES 670 H.P. ALUM. SGD - NON-IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD670 H.P.	NTS	8 of 10	PGT0003	B

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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
6	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
12	17315	617315	FRAME SILL SCREEN ADD-ON
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		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" SITTING BLOCK
55	1726		1" X 4" X 1/16" SITTING BLOCK

200		GLASS	3/16 TEMPERED
201		GLASS	1/4 TEMPERED
208		GLASS	IG 3/16-3/16 FULLY TEMPERED
209		GLASS	IG 1/4-1/4 FULLY TEMPERED

ITEM	PGT Dwg. #	PGT. #	Description
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
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 899 OR 995
75	8185	78185X	GEMINI MORTICE 3-PLY 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
78	17358	617358	3/16 & 1/4 OGEE BEAD HORIZONTAL
79	17357	617357	1" IG BEAD HORIZONTAL
82	1224	6TP247K	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	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	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		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	#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

Approved as complying with the Florida Building Code
Date MARCH 24, 2010
NOA# 09-0826.14
Miami Dade Product Control Division
By

ROBERT JAMES AMORUSO
LICENSE No. 49752
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Robert J. Amoruso, P.E.
PE #49752

Revsd By:	Date:	Revisions:	
SMC	02/23/10	B	PER MIAMI DADE COMMENTS
SMC	11/16/09	A	PER MIAMI DADE COMMENTS
Drawn By: SMC	Date: 08/05/09	Checked By: RJA	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

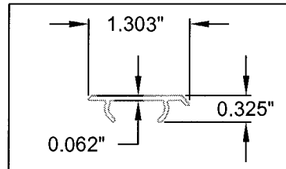
P.O. BOX 1529
NOKOMIS, FL 34274

Description: PARTS LIST

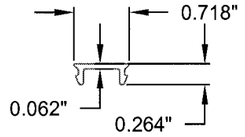
Title: SERIES 670 H.P. ALUM. SGD - NON-IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD670 H.P.	NTS	9 of 10	PGT0003	B

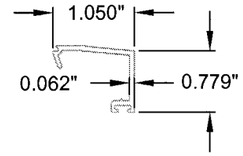
PREPARED BY: PTC, LLC 1535 N. COGSWELL ST., STE. C25, ROCKLEDGE, FL 32955, PH: 321-690-1788, FAX 321-690-1789



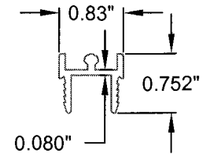
INTERLOCK SCREW COVER
(65) MAT'L: 6063-T6



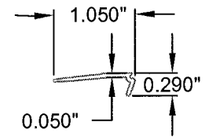
FRAME SCREW COVER
(5) MAT'L: 6063-T6



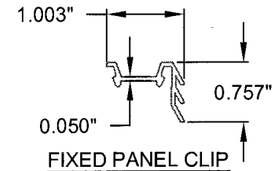
GLAZING BEAD (SINGLE)
(78) MAT'L: 6063-T6



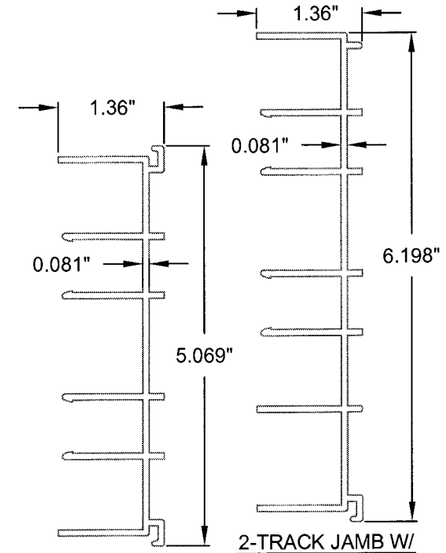
SILL TRACK
(11) MAT'L: 6063-T6



GLAZING BEAD (I.G.)
(79) MAT'L: 6063-T6

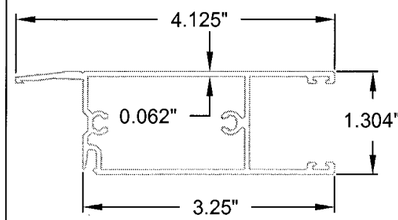


FIXED PANEL CLIP
(105) MAT'L: 6063-T6

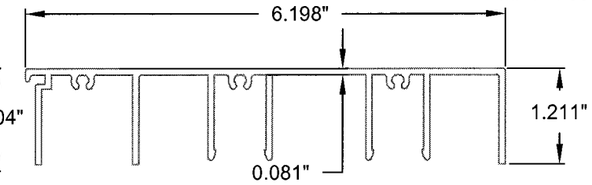


2-TRACK JAMB
(14) MAT'L: 6063-T6

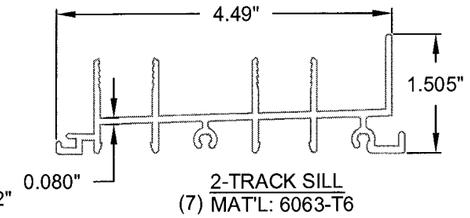
2-TRACK JAMB W/ SCREEN TRACK
(15) MAT'L: 6063-T6



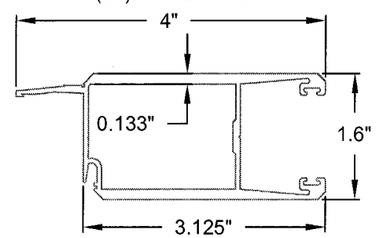
TOP/BOTTOM BOTTOM RAIL
(69) MAT'L: 6063-T6



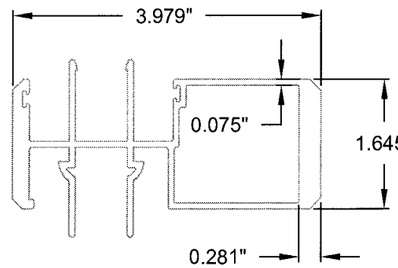
2-TRACK HEAD W/ SCREEN TRACK
(2) MAT'L: 6063-T6



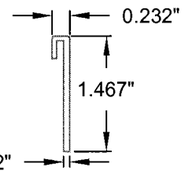
2-TRACK SILL
(7) MAT'L: 6063-T6



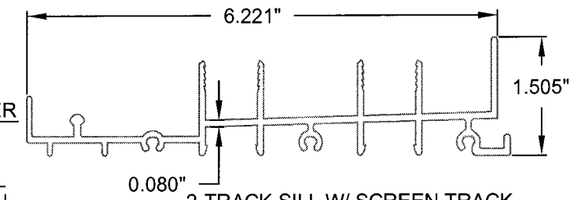
HEAVY DUTY STILE
(61) MAT'L: 6063-T6



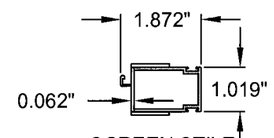
HEAVY DUTY ASTRAGAL
(68) MAT'L: 6063-T6



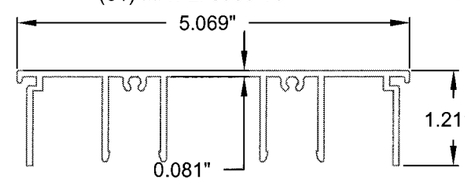
FLUSH FLAT SILL RISER
(18) MAT'L: 6063-T6



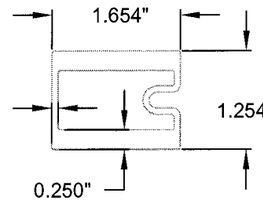
2-TRACK SILL W/ SCREEN TRACK
(8) MAT'L: 6063-T6



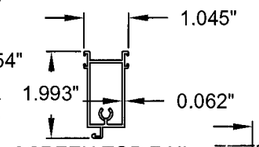
SCREEN STILE
(40) MAT'L: 6063-T6



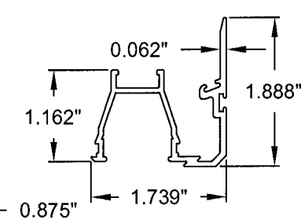
2-TRACK HEAD
(1) MAT'L: 6063-T6



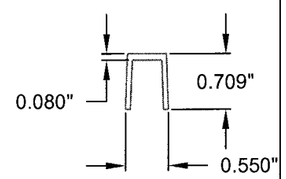
REINFORCEMENT
(66) MAT'L: 6063-T6
(PANEL LENGTH - 9")



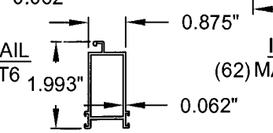
SCREEN TOP RAIL
(45) MAT'L: 6063-T6



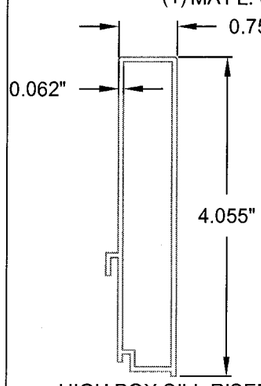
INTERLOCK
(62) MAT'L: 6063-T6



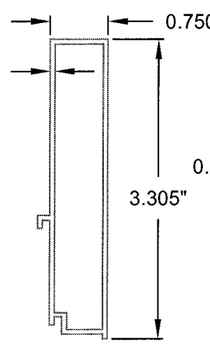
FIXED PANEL RETAINER
(106) MAT'L: 6063-T6



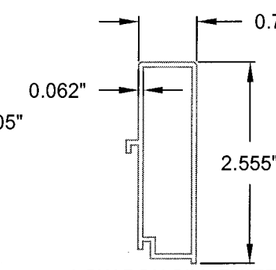
SCREEN BTM. RAIL
(46) MAT'L: 6063-T6



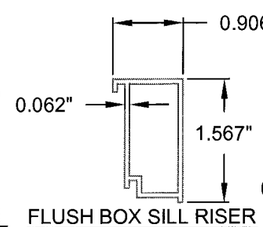
HIGH BOX SILL RISER
(24) MAT'L: 6063-T6



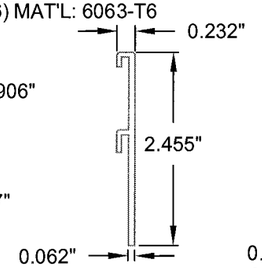
MEDIUM BOX SILL RISER
(23) MAT'L: 6063-T6



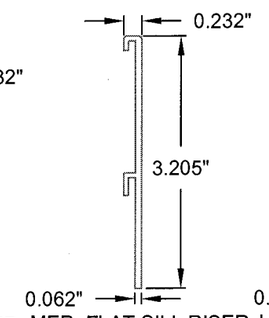
LOW BOX SILL RISER
(21) MAT'L: 6063-T6



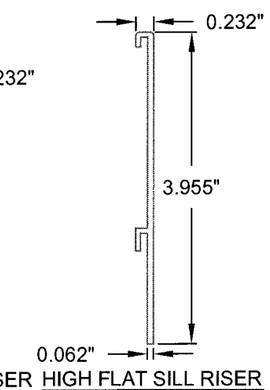
FLUSH BOX SILL RISER
(19) MAT'L: 6063-T6



LOW FLAT SILL RISER
(20) MAT'L: 6063-T6



MED. FLAT SILL RISER
(22) MAT'L: 6063-T6



HIGH FLAT SILL RISER
(25) MAT'L: 6063-T6

Approved as complying with the Florida Building Code
Date MARCH 24, 2010
NOA# 09-0826.14
Miami Dade Product Control Division
By Chaq L. Chauda

ROBERT JAMES AMORUSO
LICENSE
No 49752
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Robert J. Amoruso, P.E.
PE #49752

Revsd By:	Date:	Revisions:	
Revsd By: SMC	Date: 02/23/10	Revisions: B	PER MIAMI DADE COMMENTS
Revsd By: SMC	Date: 11/16/09	Revisions: 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

PGT®

Description: EXTRUSIONS

Title: SERIES 670 H.P. ALUM. SGD - NON-IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SGD670 H.P.	NTS	10 of 10	PGT0003	B

PREPARED BY: PTC, LLC 1535 N. COGSWELL ST., STE. C25, ROCKLEDGE, FL 32955, PH: 321-690-1788, FAX 321-690-1789