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 "SH–700" Aluminum Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **4040-20**, titled "Alum. Single Hung Window, Impact", sheets 1 through 11 of 11, dated 09/01/05, with revision F dated 05/05/16, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

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

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

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

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

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

This NOA **revises NOA# 15-0519.08** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY APPROVED

8/12/16

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under NOA No. 05-1018.01 and 07-0322.06)
2. Drawing No **4040-20**, titled "Alum. Single Hung Window, Impact", sheets 1 through 11 of 11, dated 09/01/05, with revision F dated 05/15/16, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   along with marked-up drawings and installation diagram of a PVC sliding glass door, a PVC fixed window and an aluminum sliding glass door, using: Kodispace 4SG TPS spacer system, Duraseal® spacer system, Super Spacer® NXT™ spacer system and XL Edge™ spacer system at insulated glass, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-8717, FTL-8968** and **FTL-8970**, dated 11/16/15, 06/07/16 and 06/02/16 respectively, all signed and sealed by Idalmis Ortega, P.E.
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   ..4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC 2411.3.2.1, TAS 202-94
   along with marked-up drawings and installation diagram of an aluminum single hung window, with fin frame, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4957**, dated 10/03/06, signed and sealed by Edmundo Largaespada, P.E.
   (Submitted under NOA No.07-0322.06)
3. Test reports on: 1) Air Infiltration 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 an aluminum single hung window, with fin frame, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-4958** and **FTL-5063**, dated 10/03/06 and 11/21/06, both signed and sealed by Edmundo Largaespada, P.E.
   (Submitted under NOA No.07-0322.06)

Manuel Perez

Manuel Perez, P.E.
Product Control Examiner
NOA No. 16-0714.06
Expiration Date: March 26, 2021
Approval Date: August 18, 2016

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

4. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum single hung window, with fin frame, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4645**, dated 08/11/05, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA No. 07-0322.06)

5. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum single hung window, with fin frame, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-4649** and **FTL-4723**, dated 10/05/05 and 08/11/05, both signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA No. 05-1018.01)

6. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
..4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of an aluminum single hung window, with fin frame, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-4947** and **FTL-4650**, dated 08/11/05, both signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA No.05-1018.01)

7. Test reports on:.1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
..2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum single hung window, with fin frame, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-4948** and **FTL-4646**, dated 08/10/05, both signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA No.05-1018.01)

Manuel Perez

Manuel Perez, P.E.
Product Control Examiner
NOA No. 16-0714.06
Expiration Date: March 26, 2021
Approval Date: August 18, 2016

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-5th Edition (2014)**, dated 05/12/15, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
   (Submitted under previous NOA No. 15-0519.08)
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0423.17** issued to **Eastman Chemical Company (MA)** for their "**Saflex Clear and Color Glass Interlayers**" dated 06/19/14, expiring on 05/21/16.
2. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** for their "**Kuraray Butacite® PVB Glass Interlayer**" dated 04/25/15, expiring on 12/11/16.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-5th Edition (2014)**, dated May 16, 2015, issued by manufacturer, signed and sealed by A. Lynn Miller, P.E.
   (Submitted under previous NOA No. 15-0519.08)
2. Statement letter of no financial interest, dated May 16, 2015, issued by manufacturer, signed and sealed by A. Lynn Miller, P.E.
   (Submitted under previous NOA No. 15-0519.08)
3. Laboratory compliance letter for Test Reports No. **FTL-4957, FTL-4958** and **FTL-5063**, issued by Fenestration Testing Laboratory, Inc., dated 10/03/06, signed and sealed by Edmundo Largaespada, P.E.
   (Submitted under NOA No. 07-0322.06)
4. Laboratory compliance letter for Test Reports No. **FTL-4649, FTL-4723. FTL-4947, FTL-4650, FTL- 4948** and **FTL-4646**, issued by Fenestration Testing Laboratory, Inc., dated 08/10/05, signed and sealed by Edmundo Largaespada, P.E.
   (Submitted under NOA No. 05-1018.01)
5. Proposal No. **16-0125** issued by the Product Control Section, dated March 09, 2016, signed by Ishaq Chanda, P.E.

G. OTHERS

1. Notice of Acceptance No. **15-0519.08**, issued to PGT Industries for their Series "SH-700" Aluminum Single Hung Window - L.M.I., approved on 07/09/15 and expiring on 03/26/21.

Manuel Perez

Manuel Perez, P.E.
Product Control Examiner
NOA No. 16-0714.06
Expiration Date: March 26, 2021
Approval Date: August 18, 2016

GENERAL NOTES: IMPACT SINGLE HUNG FLANGED AND INTEGRAL FIN WINDOWS

STANDARDS USED:

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

1. GLAZING OPTIONS: (SEE DETAILS ON SHEET 2)

   A. 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" ANNEALED GLASS WITH A .090" KURARAY BUTACITE® PVB (BY KURARAY AMERICA, INC.) OR .090" SAFLEX® PVB INTERLAYER (BY EASTMAN CHEMICAL COMPANY)
   B. 5/16" LAMI CONSISTING OF (1) LITE OF 1/8" ANNEALED GLASS AND (1) LITE OF 1/8" HEAT STRENGTHENED GLASS WITH A .090" KURARAY BUTACITE® PVB (BY KURARAY AMERICA, INC.) OR .090" SAFLEX® PVB INTERLAYER (BY EASTMAN CHEMICAL COMPANY)
   C. 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" HEAT STRENGTHENED GLASS WITH A .090" KURARAY BUTACITE® PVB (BY KURARAY AMERICA, INC.) OR .090" SAFLEX® PVB INTERLAYER (BY EASTMAN CHEMICAL COMPANY)
   D. 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" ANNEALED GLASS WITH A .090" KURARAY BUTACITE® PVB (BY KURARAY AMERICA, INC.) OR .090" SAFLEX® PVB INTERLAYER (BY EASTMAN CHEMICAL COMPANY)
   E. 7/16" LAMI CONSISTING OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS WITH A .090" KURARAY BUTACITE® PVB (BY KURARAY AMERICA, INC.) OR .090" SAFLEX® PVB INTERLAYER (BY EASTMAN CHEMICAL COMPANY)
   F. 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH A .090" KURARAY BUTACITE® PVB (BY KURARAY AMERICA, INC.) OR .090" SAFLEX® PVB INTERLAYER (BY EASTMAN CHEMICAL COMPANY)
   G. 13/16" LAMI IG: (1) LITE OF 1/8" TEMPERED GLASS, AN AIR SPACE AND 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" ANNEALED GLASS WITH A .090" KURARAY BUTACITE® PVB (BY KURARAY AMERICA, INC.) OR .090" SAFLEX® PVB INTERLAYER (BY EASTMAN CHEMICAL COMPANY)
   H. 13/16" LAMI IG: (1) LITE OF 1/8" TEMPERED GLASS, AN AIR SPACE AND 5/16" LAMI CONSISTING OF (1) LITE OF 1/8" ANNEALED GLASS AND (1) LITE OF 1/8" HEAT STRENGTHENED GLASS WITH A .090" KURARAY BUTACITE® PVB (BY KURARAY AMERICA, INC.) OR .090" SAFLEX® PVB INTERLAYER (BY EASTMAN CHEMICAL COMPANY)
   I. 13/16" LAMI IG: (1) LITE OF 1/8" TEMPERED GLASS, AN AIR SPACE AND 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" HEAT STRENGTHENED GLASS WITH A .090" KURARAY BUTACITE® PVB (BY KURARAY AMERICA, INC.) OR .090" SAFLEX® PVB INTERLAYER (BY EASTMAN CHEMICAL COMPANY)
   J. 13/16" LAMI IG: (1) LITE OF 1/8" TEMPERED GLASS, AN AIR SPACE AND 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" ANNEALED GLASS WITH A .090" KURARAY BUTACITE® PVB (BY KURARAY AMERICA, INC.) OR .090" SAFLEX® PVB INTERLAYER (BY EASTMAN CHEMICAL COMPANY)
   K. 13/16" LAMI IG: (1) LITE OF 1/8" TEMPERED GLASS, AN AIR SPACE AND 7/16" LAMI CONSISTING OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS WITH A .090" KURARAY BUTACITE® PVB (BY KURARAY AMERICA, INC.) OR .090" SAFLEX® PVB INTERLAYER (BY EASTMAN CHEMICAL COMPANY)
   L. 13/16" LAMI IG: (1) LITE OF 1/8" TEMPERED GLASS, AN AIR SPACE AND 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH A .090" KURARAY BUTACITE® PVB (BY KURARAY AMERICA, INC.) OR .090" SAFLEX® PVB INTERLAYER (BY EASTMAN CHEMICAL COMPANY)
   M. 13/16" LAMI IG: (1) LITE OF 1/8" ANNEALED GLASS, AN AIR SPACE AND 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" ANNEALED GLASS WITH A .090" KURARAY BUTACITE® PVB (BY KURARAY AMERICA, INC.) OR .090" SAFLEX® PVB INTERLAYER (BY EASTMAN CHEMICAL COMPANY)

2. CONFIGURATIONS: "OX" (1/1, VIEW AND RADIUS TOP, ALL W/ LOW OR HIGH SILL OPTION)

3. DESIGN PRESSURES: (SEE TABLES, SHEETS 3)

   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.

4. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEETS 8 THROUGH 11 FOR ANCHORAGE DETAILS.

5. SHUTTERS ARE NOT REQUIRED.

6. FRAME AND PANEL CORNERS SEALED WITH NARROW JOINT SEALANT OR GASKET.

7. REFERENCES: TEST REPORTS FTL-4645, FTL-4646, FTL-4647, FTL-4648, FTL-4649, FTL-4650, FTL-4651, FTL-4723, FTL-4957, FTL-4958 AND FTL-5063.
   ANSI/AF&PA NDS FOR WOOD CONSTRUCTION
   ALUMINUM DESIGN MANUAL

8. SERIES/MODEL DESIGNATION SH700, ALSO REFERRED TO AS SH701.

9. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

10. FOR INSULATED GLASS INSTALLATIONS IN THE HVHZ ABOVE 30 FT, ONLY GLAZING OPTIONS WITH TEMPERED CAPS (G-L) ARE ALLOWED.

NOA DRAWING MAP

	SHEET
GENERAL NOTES	1
GLAZING DETAILS	2
DESIGN PRESSURES	3
ELEVATIONS	4
VERT. SECTIONS	5
HORIZ. SECTIONS	5
PARTS LIST	6
EXTRUSIONS	7
CORNER DETAIL	7
ANCHORAGE	8-11

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 16-0714.06
Expiration Date March 26, 2021
By Manuel Perez
Miami Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
6/14/16

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

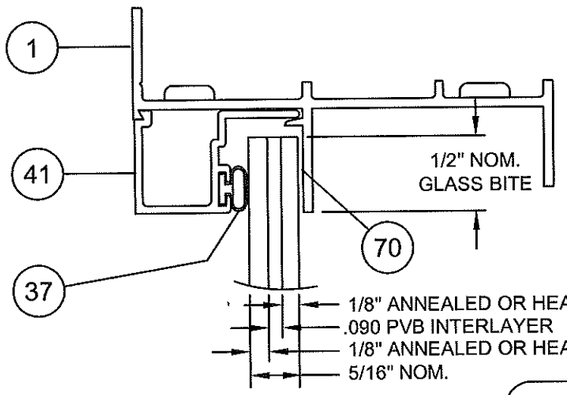
Revsd By:	Date:	Revisions:	
JR	05/05/16	F	ADDED SPACERS TO SHEET 2.
Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Drawn By: F.K.	Date: 9/1/05	Checked By: J.J.	Date: 2/23/07

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275

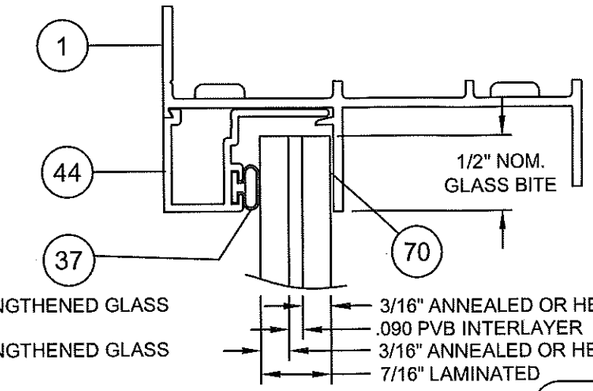
P.O. BOX 1529
NOKOMIS, FL 34274

PGT Visibly Better

Description:				
GENERAL NOTES				
Title: ALUM. SINGLE HUNG WINDOW, IMPACT				
Series/Model: SH700	Scale: NTS	Sheet: 1 of 11	Drawing No. 4040-20	Rev: F



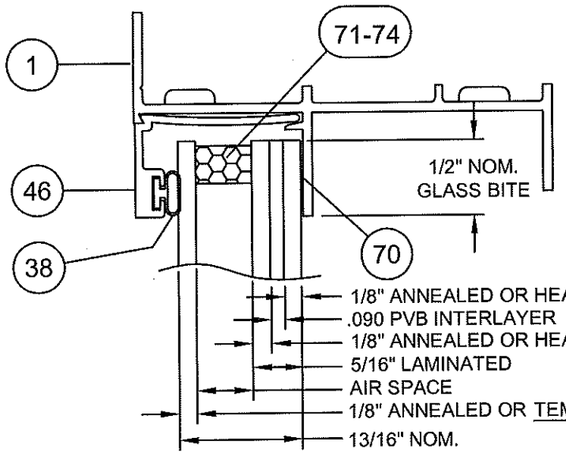
5/16" LAMINATED GLASS (80,81 or 82)



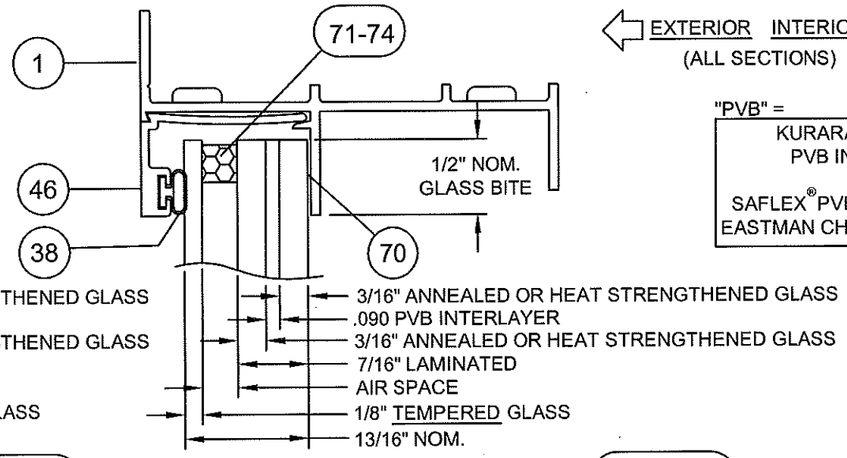
7/16" LAMINATED GLASS (83,84 or 85)

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

REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970



13/16" LAMI IG GLASS W/ 5/16" LAMI (86,87,88 or 92)



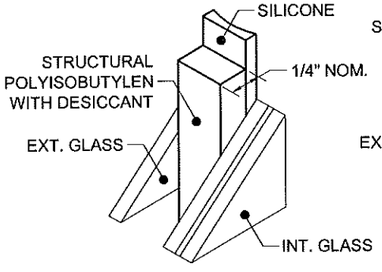
13/16" LAMI IG GLASS W/ 7/16" LAMI (89,90 or 91)

EXTERIOR INTERIOR
(ALL SECTIONS)

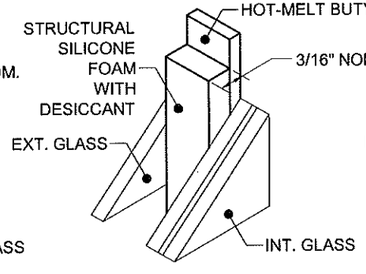
"PVB" =
KURARAY BUTACITE® PVB INTERLAYER
or
SAFLEX® PVB INTERLAYER BY EASTMAN CHEMICAL COMPANY

NOTE:

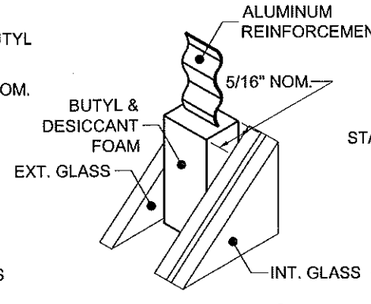
LAMI IG OUTBOARD LITES MAY BE UPGRADED TO 3/16" WITH NO CHANGE IN DESIGN PRESSURE.



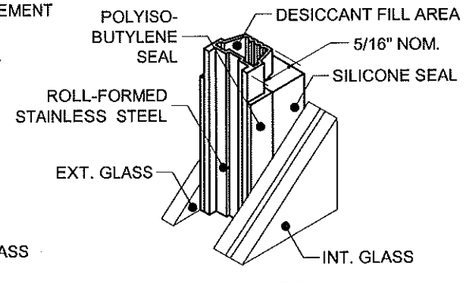
(71) KODISPACE 4SG TPS



(72) SUPER SPACER® NXT™



(73) DURASEAL® SPACER



(74) XL EDGE™ SPACER

PRODUCT REVISED
as complying with the Florida
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Acceptance No 16-0714.06
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By Manuel Perez
Miami Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
6/14/16

A. LYNN MILLER, P.E.
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Revsd By:	Date:	Revisions:	
JR	05/05/16	F	ADDED SPACERS.
Revsd By:	Date:	Revisions:	
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Drawn By: F.K.	Date: 9/1/05	Checked By: J.J.	Date: 2/23/07

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

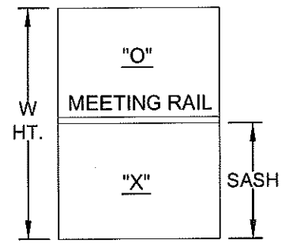
PGT Visibly Better

Description: GLAZING DETAILS
Title: ALUM. SINGLE HUNG WINDOW, IMPACT
Series/Model: SH700 | Scale: Full | Sheet: 2 of 11 | Drawing No. 4040-20 | Rev: F

1/1 FLANGE OR INTEGRAL FIN WINDOWS W/ HIGH SILL OPTION
BASED ON FLANGED WINDOW TIP-TO-TIP FRAME DIMENSIONS

TABLE 1.

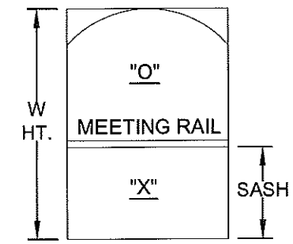
WIDTH	GLASS TYPE	WINDOW HEIGHT 63"		66"		68"		70"		72"		74"		76"	
48"	A,B,M	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0
50"	A,B,M	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+79.0	-79.0
52"	A,B,M	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+78.8	-78.8	+77.3	-77.3	+75.9	-75.9
53 1/8"	A,B,M	+80.0	-80.0	+80.0	-80.0	+79.6	-79.6	+78.2	-78.2	+76.9	-76.9	+75.4	-75.4	+74.0	-74.0
UP TO 53 1/8"	C,D,E,F,G,H,I,J,K,L	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0



STANDARD VIEW & RADIUS TOP FLANGE OR INTEGRAL FIN WINDOWS W/ HIGH SILL OPTION
BASED ON FLANGED WINDOW TIP-TO-TIP FRAME DIMENSIONS

TABLE 2.

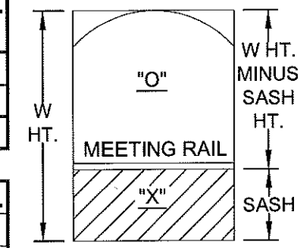
WIDTH	GLASS TYPE	WINDOW HEIGHT 38 3/8"		44"		50 5/8"		63"		72"		74"		76"	
48"	A,B,M	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0
50"	A,B,M	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+79.9	-79.9	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0
52"	A,B,M	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+76.9	-76.9	+70.0	-70.0	+68.8	-68.8	+67.6	-67.6
53 1/8"	A,B,M	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+75.0	-75.0	+68.0	-68.0	+66.7	-66.7	+65.5	-65.5
UP TO 53 1/8"	C,D,E,F,G,H,I,J,K,L	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0



CUSTOM VIEW & RADIUS TOP FLANGE OR INTEGRAL FIN WINDOWS W/ HIGH SILL OPTION
BASED ON FLANGED WINDOW TIP-TO-TIP FRAME DIMENSIONS

TABLE 3.

WIDTH	GLASS TYPE	WINDOW HEIGHT MINUS SASH HEIGHT (MAX. WINDOW HT. W/ SASH = 76" FLANGED AND 75" INTEGRAL FIN) 17 1/8"		22 11/16"		28 3/16"		33 3/4"		39 5/16"		44 13/16"		50 3/8"		55 15/16"	
53 1/8"	D,E,F,J,K,L[4] (E)	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0



GLASS TYPES:	TEST REPORTS
A. 5/16" LAMI - (1/8"A,.090,1/8"A)	FTL-4647, 4648, 4723, 4957
B. 5/16" LAMI - (1/8"A,.090,1/8"HS)	FTL-4647, 4648
C. 5/16" LAMI - (1/8"HS,.090,1/8"HS)	FTL-4647, 4648
D. 7/16" LAMI - (3/16"A,.090, 3/16"A)	FTL-4645, 4885
E. 7/16" LAMI - (3/16"A,.090, 3/16"HS)	FTL-4645
F. 7/16" LAMI - (3/16"HS,.090, 3/16"HS)	FTL-4645
G. 13/16" LAMI IG - 1/8" T, AIR SPACE, 5/16" LAMI - (1/8"A,.090,1/8"A)	FTL-4646, 4723
H. 13/16" LAMI IG - 1/8" T, AIR SPACE, 5/16" LAMI - (1/8"A,.090,1/8"HS)	FTL-4646
I. 13/16" LAMI IG - 1/8" T, AIR SPACE, 5/16" LAMI - (1/8"HS,.090,1/8"HS)	FTL-4646
J. 13/16" LAMI IG - 1/8" T, AIR SPACE, 7/16" LAMI - (3/16"A,.090, 3/16"A)	FTL-4649, 4650
K. 13/16" LAMI IG - 1/8" T, AIR SPACE, 7/16" LAMI - (3/16"A,.090, 3/16"HS)	FTL-4649, 4650, 4958
L. 13/16" LAMI IG - 1/8" T, AIR SPACE, 7/16" LAMI - (3/16"HS,.090, 3/16"HS)	FTL-4649, 4650
M. 13/16" LAMI IG - 1/8"A, AIR SPACE, 5/16" LAMI - (1/8"A,.090, 1/8"A)	FTL-5063

TABLE 4.

NOTES:
1. WINDOWS WITH THE LOW SILL OPTION ARE LIMITED TO A POSITIVE DESIGN PRESSURE OF +64.0 PSF OR LOWER AS SHOWN IN THE TABLES. NEGATIVE DESIGN PRESSURES ARE UNEFFECTED.
2. FOR INTEGRAL FIN WINDOW DESIGN PRESSURES USE THE ABOVE TABLES BY DEDUCTING 1" FROM THE FLANGED TIP-TO-TIP FRAME DIMENSIONS.
3. AVAILABLE SASH HEIGHTS FOR CUSTOM WINDOWS ARE 12 5/8" MINIMUM TO 38" MAXIMUM.
4. GLASS TYPES C, G, H, AND I MAY BE USED IN SASH ONLY

PRODUCT REVISED
as complying with the Florida
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Acceptance No 16-0714.06
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By Manuel Perez
Miami Dade Product Control

Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Drawn By: F.K.	Date: 9/1/05	Checked By: J.J.	Date: 2/23/07

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

PGT Visibly Better

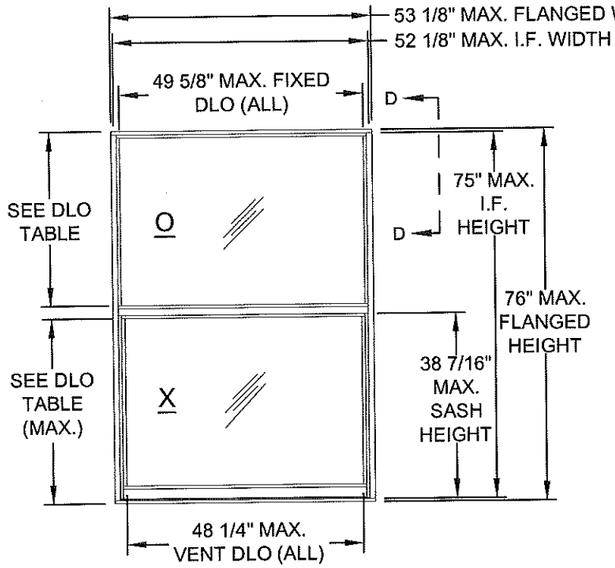
Description: DESIGN PRESSURES

Title: ALUM. SINGLE HUNG WINDOW, IMPACT

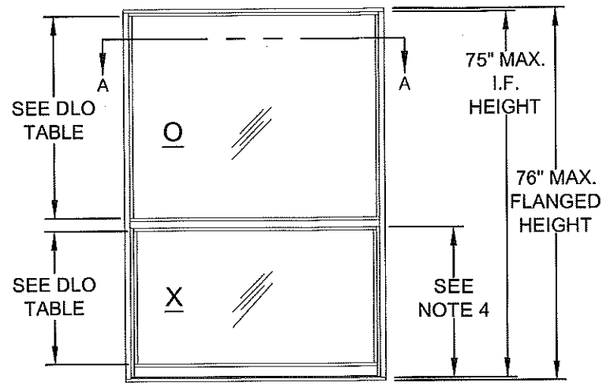
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SH700	NTS	3 of 11	4040-20	F

ANTHONY LYNN MILLER — LICENSE — No. 58705 — 6/14/16 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

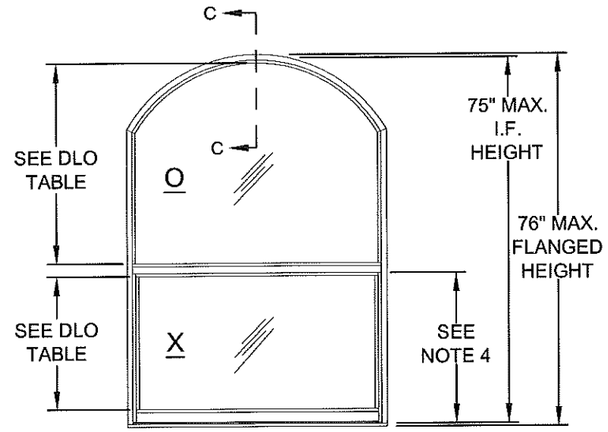
A. LYNN MILLER, P.E.
FL P.E.# 58705



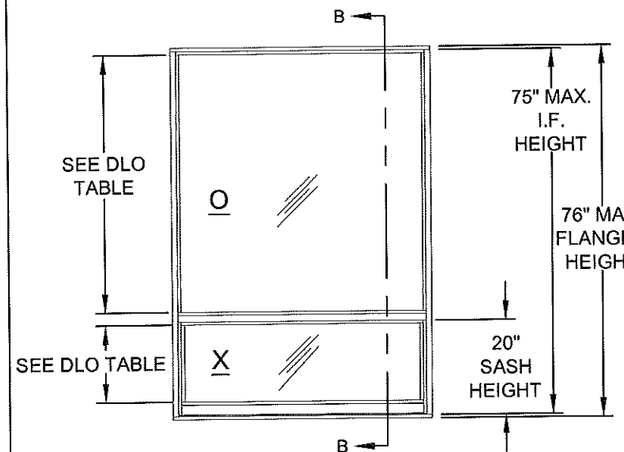
DETAIL A
1/1



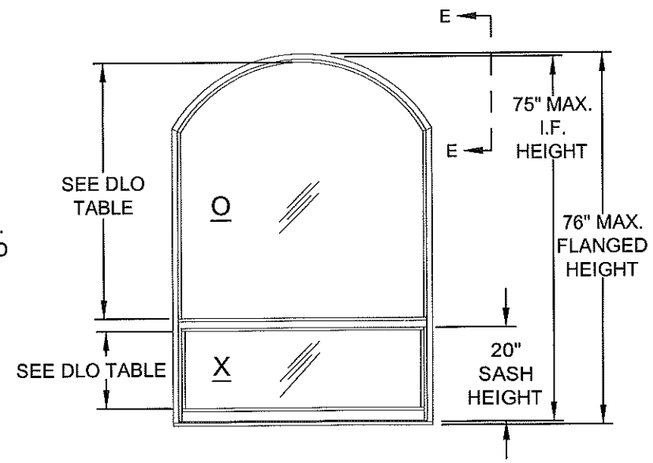
DETAIL B
VIEW (STANDARD SASH)



DETAIL C
RADIUS TOP (STANDARD SASH)



DETAIL D
VIEW (CUSTOM SASH)



DETAIL E
RADIUS TOP (CUSTOM SASH)

NOTES:

1. SEE SHEET 5 FOR VERTICAL AND HORIZONTAL SECTION DETAILS.
2. SEE SHEET 7 FOR CORNER DETAIL VIEWS.
3. SEE SHEETS 8 THROUGH 11 FOR ANCHORAGE INFORMATION.
4. SASH HEIGHTS FOR STANDARD SASH WINDOWS (DETAILS B & C) ARE BASED ON A THREE OVER TWO FORMAT.

PRODUCT REVISED
as complying with the Florida
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Miami Dade Product Control

Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Drawn By: F.K.	Date: 9/1/05	Checked By: J.J.	Date: 2/23/07

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

PGT Visibly Better

Description: ELEVATIONS
Title: ALUM. SINGLE HUNG WINDOW, IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SH700	NTS	4 of 11	4040-20	F

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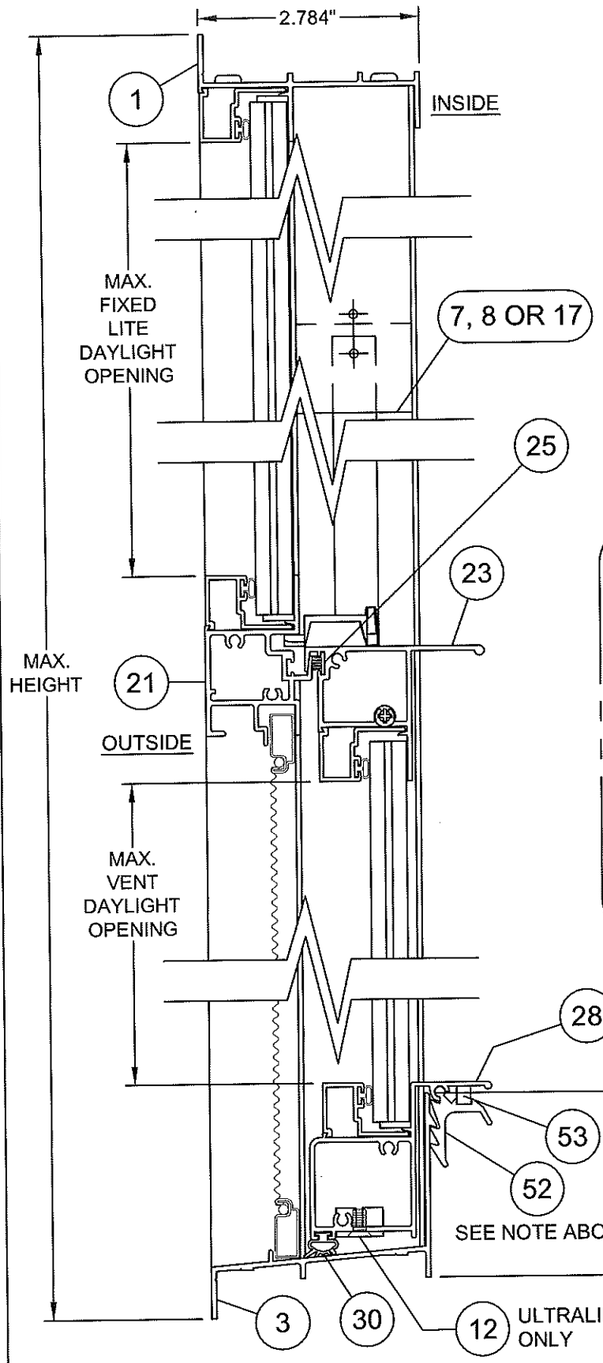
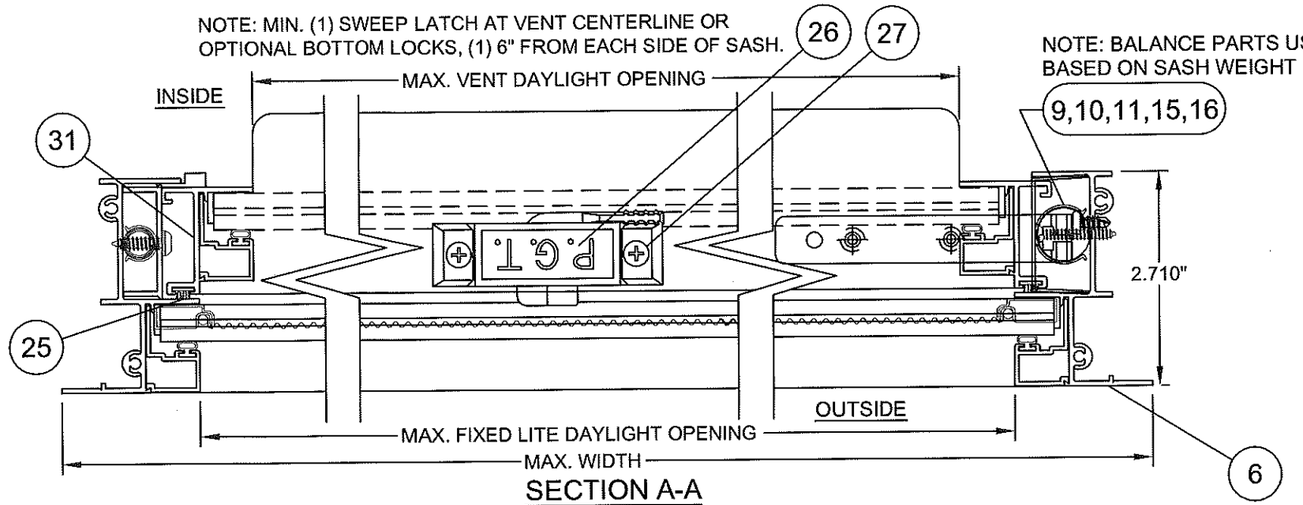
FL P.E.# 58705



SECTION B-B
(LOW SILL SHOWN)

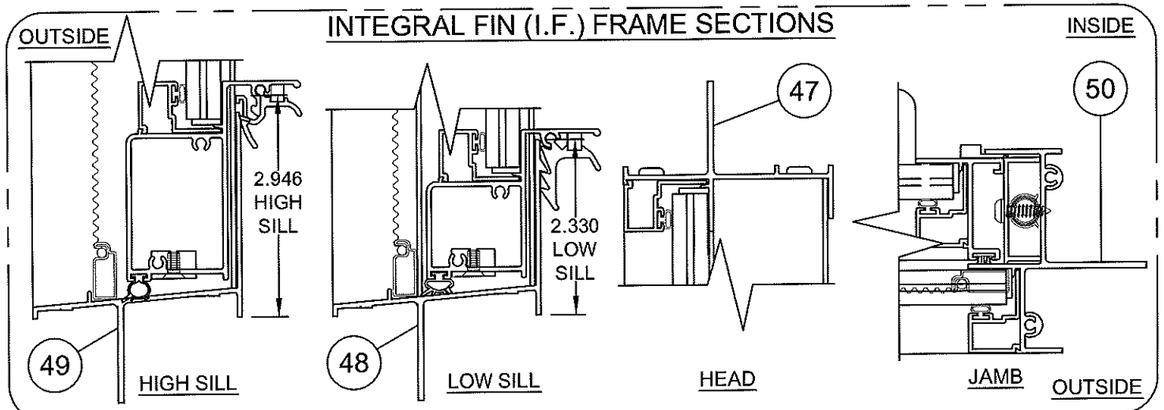
NOTE: MIN. (1) SWEEP LATCH AT VENT CENTERLINE OR OPTIONAL BOTTOM LOCKS, (1) 6" FROM EACH SIDE OF SASH.

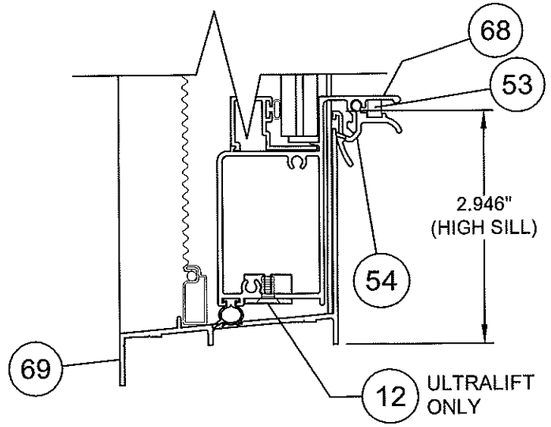
NOTE: BALANCE PARTS USED BASED ON SASH WEIGHT



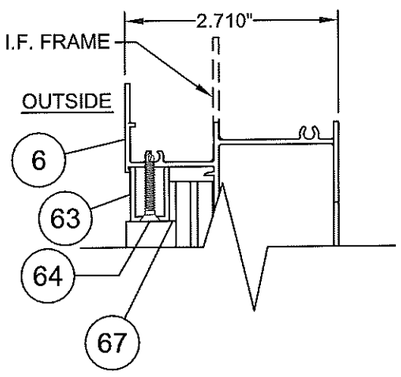
SECTION A-A

INTEGRAL FIN (I.F.) FRAME SECTIONS





ALTERNATE HIGH SILL



SECTION C-C
RADIUS TOP
(HEAD DETAIL - FLANGED VERSION)

PRODUCT REVISED
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Expiration Date March 26, 2021
By Manuel Perez
Miami Dade Product Control

ARTHUR LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
6/14/16

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

Revsd By:	Date:	Revisions:
Revsd By:	Date:	Revisions:
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1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

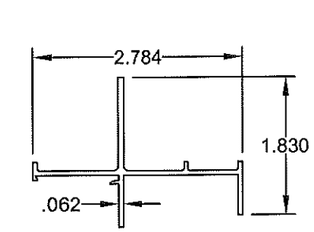
PGT
Visibly Better

Description: SECTIONS
Title: ALUM. SINGLE HUNG WINDOW, IMPACT

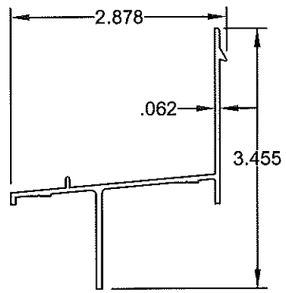
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SH700	Half	5 of 11	4040-20	F

ITEM	DWG.#	DESCRIPTION	PGT#
1	4002A	FLANGE FRAME HEAD	612225
2	1155	#8 X 1.000 QUAD PN. SMS	781PQA
3	4003C	FLANGE FRAME SILL (LOW SILL)	612226
5	1626	ADHESIVE OPEN CELL FOAM PAD	7PAD1626
6	4004	FLANGE FRAME JAMB	612227
7	4025	SASH STOP	612244
8	4025	SASH STOP (EGRESS) 1.125 LONG	612244
9	4029	SPIRAL BALANCE, 3/8", 5/8", OR 11/16"	
10	1080	BALANCE COVER, 3/8" OR 5/8"	6BALCVR916
11		#8 X .750 PH. PN. SMS	7834AA
12		BALANCE BOTTOM BRACKET	7BALTBKT
13	1085/1086	SASH TOP GUIDE	42504
15		#8 X 1 PHILLIPS FLAT HEAD S. STL	78X1FPAX
16	1080-1	BALANCE COVER, 11/16"	6BALCVR670
17	4053	SASH STOP COVER	64053
18	4029-1	SASH BRACKET	7ULBRKT
19		#8-32 X 1/2" LG. PH. FH. TYPE F S. STL	7832X12FPFX
21	4054C	FIXED MEETING RAIL	64054C
23	4006C	SASH TOP RAIL	64006
25	1235	WSTP.,.170 X .270 BACK, FIN SEAL	67S16G
26	1096	SWEEP LATCH	71096
27	1016	#8 X .625 PH. FL. SMS	7858
28	4007	SASH BOTTOM RAIL (LOW SILL)	612230
30	1226	WSTP., BULB VINYL	6TP249
31	4008	SASH SIDE RAIL	612231
34	1268	SASH FACE GUIDE	42501
35	1622	LAMI SETTING BLOCK 3/32" X 25/64" X 1"	71622K
36	1052	LAMI IG SETTING BLOCK 1" X 3/4" X 1/16"	71052K
37	1224	VINYL GLAZ. BEAD BULB (THICK)	6TP247W,K
38	1225	VINYL GLAZ. BEAD BULB (THIN)	6TP248K
41	4039B	GLAZING BEAD, 5/16 LAM. GLASS.	64039B
42	4044B	GLAZING BEAD, 5/16 LAMI W/GRILL KIT	644703
44	4222A	GLAZING BEAD, 7/16" LAMI	64222
45	985C	GLAZING BEAD, 7/16" LAMI W/GRILL KIT	6985
46	4067	GLAZING BEAD, 13/16" LAMI I.G.	64067
47	4071A	FRAME, I.F. HEAD	64071
48	4072A	FRAME, I.F. LOW SILL	64072
49	4073A	FRAME, I.F. HIGH SILL	64073
50	4074B	FRAME, I.F. JAMB	64074
52	4009	SILL LATCH (EGRESS) (LOW SILL)	764009
53	1088	SPRING, SILL LATCH (EGRESS)	7SPRNG
54	2740	SILL LATCH (EGRESS) (HIGH SILL)	62740
55	1014	SCREEN FRAME (HOR. & VER.)	61014
56	1630	SCREEN CORNER KEY W/RINGS	71630
57	1631	SCREEN CORNER KEY W/OUT RINGS	71631
58	1073	SCREEN SPRING	7CASP
59	1624	SCREEN SPLINE - .135 DIA. FOAM	61624K

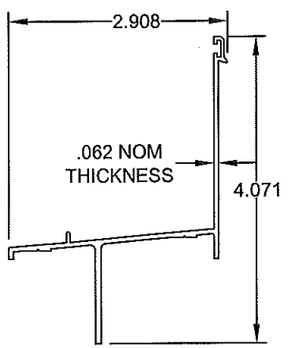
ITEM	DWG.#	DESCRIPTION	PGT#
60	1635	SCREEN SPLINE - .135 DIA. HARD	61635K
61		SCREEN CLOTH	61816
63	505	GLAZING CHANNEL (.688 X .500)	6533402
64	1161	#6 X 1.000 PH. BUGLE TEK	706X1
67		GLAZING TAPE, 1/16 X 1/2 - 7/16 LAMI	62BV1510
68	4051A	SASH BOTTOM RAIL (HIGH SILL)	64051
69	4050A	FLANGE FRAME SILL (HIGH SILL)	64050
70		SILICONE, DOW 899, 995 OR EQUIV.	
80	A. GLASS, 5/16" LAMI, (1/8"A,.090 PVB,1/8"A)		
81	B. GLASS, 5/16" LAMI, (1/8"A,.090 PVB,1/8"HS)		
82	C. GLASS, 5/16" LAMI, (1/8"HS,.090 PVB,1/8"HS)		
83	D. GLASS, 7/16" LAMI, (1/8"A,.090 PVB,1/8"A)		
84	E. GLASS, 7/16" LAMI, (1/8"A,.090 PVB,1/8"HS)		
85	F. GLASS, 7/16" LAMI, (1/8"HS,.090 PVB,1/8"HS)		
86	G. GLASS, 13/16" LAMI IG; 1/8"T, AIR SPACE, 5/16" LAMI, (1/8"A,.090 PVB,1/8"A)		
87	H. GLASS, 13/16" LAMI IG; 1/8"T, AIR SPACE, 5/16" LAMI, (1/8"A,.090 PVB,1/8"HS)		
88	I. GLASS, 13/16" LAMI IG; 1/8"T, AIR SPACE, 5/16" LAMI, (1/8"HS,.090 PVB,1/8"HS)		
89	J. GLASS, 13/16" LAMI IG; 1/8"T, AIR SPACE, 7/16" LAMI, (3/16"A,.090 PVB,3/16"A)		
90	K. GLASS, 13/16" LAMI IG; 1/8"T, AIR SPACE, 7/16" LAMI, (3/16"A,.090 PVB,3/16"HS)		
91	L. GLASS, 13/16" LAMI IG; 1/8"T, AIR SPACE, 7/16" LAMI, (3/16"HS,.090 PVB,3/16"HS)		
92	M. GLASS, 13/16" LAMI IG; 1/8"A, AIR SPACE, 5/16" LAMI, (1/8"A,.090 PVB,1/8"A)		



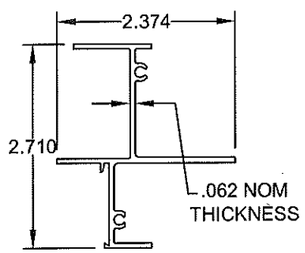
47 FRAME, I.F. HEAD
#4071A, 6063-T6



48 FRAME, I.F. LOW SILL
#4072A, 6063-T6



49 FRAME, I.F. HIGH SILL
#4073A, 6063-T6



50 FRAME, I.F. JAMB
#4074B, 6063-T6
(USED AS RADIUS TOP HEAD)

PRODUCT REVISED
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Miami Dade Product Control

A. ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
6/14/16

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

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1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275

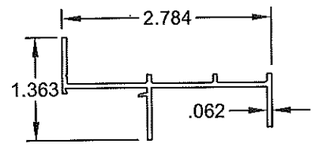
P.O. BOX 1529
NOKOMIS, FL 34274

PGT Visibly Better

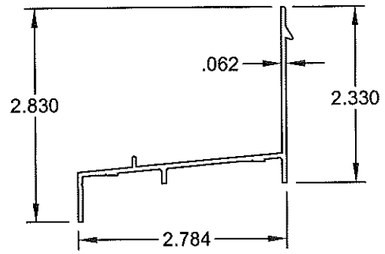
Description: PARTS LIST

Title: ALUM. SINGLE HUNG WINDOW, IMPACT

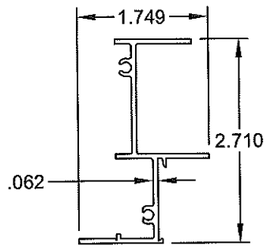
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SH700	NTS	6 of 11	4040-20	F



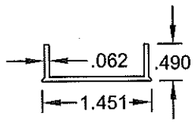
1 FLANGE FRAME HEAD
#4002A, 6063-T6



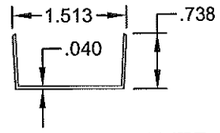
3 FLANGE FRAME SILL (LOW)
#4003C, 6063-T6



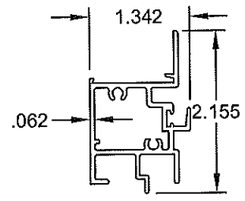
6 FLANGE FRAME JAMB
#4004, 6063-T5
(USED AS RADIUS TOP HEAD)



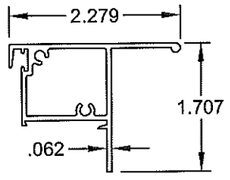
7 SASH STOP
#4025, 6063-T5



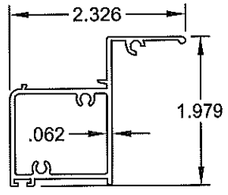
17 SASH STOP COVER
#4053, 6063-T5



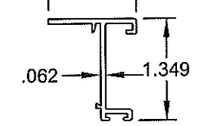
21 FIXED MEETING RAIL
#4054A, 6063HD-T6 (B)



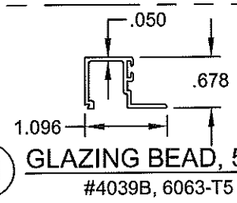
23 SASH TOP RAIL
#4006C, 6063HS-T6



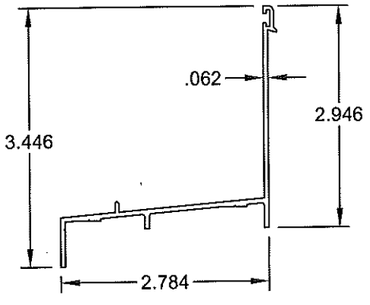
28 SASH BOTTOM RAIL (LOW)
#4007, 6063-T5



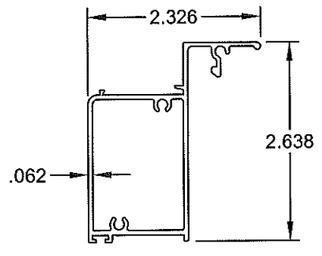
31 SASH SIDE RAIL
#4008, 6063-T5



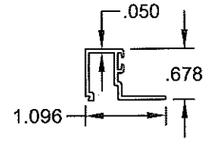
41 GLAZING BEAD, 5/16"
#4039B, 6063-T5



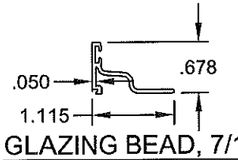
69 FLANGE FRAME SILL (HIGH)
#4050A, 6063-T6



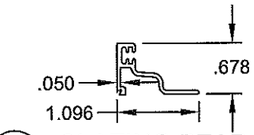
68 SASH BOTTOM RAIL (HIGH)
#4051A, 6063-T5



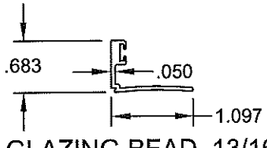
44 GLAZING BEAD 7/16"
#4222, 6063-T5



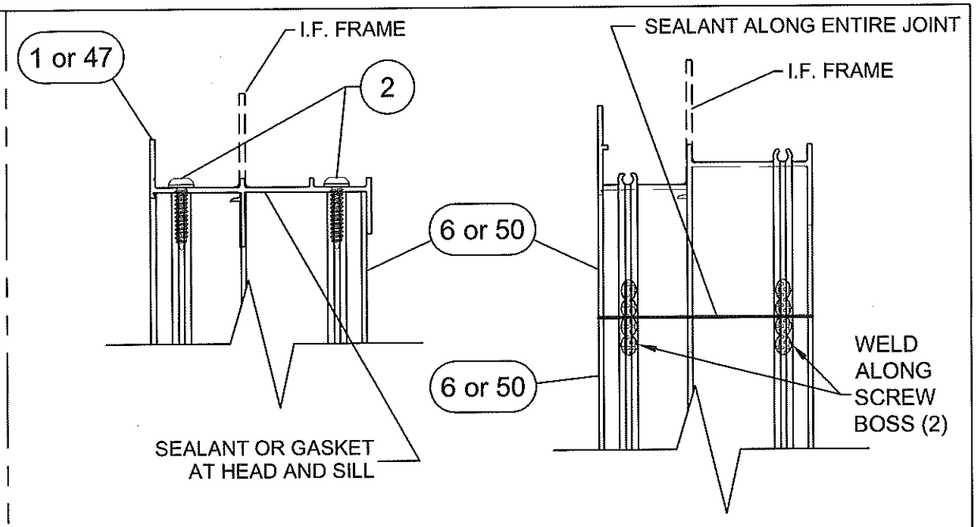
45 GLAZING BEAD, 7/16"
#985C, 6063-T5
(USED W/ GRILL KIT)



42 GLAZING BEAD, 5/16"
#4044B, 6063-T5
(USED W/ GRILL KIT)



46 GLAZING BEAD, 13/16" IG
#4067, 6063-T5



VIEW D-D
(1/1 & VIEW HEAD & SILL, RADIUS TOP SILL)

VIEW E-E
(RADIUS TOP HEAD ONLY)

FRAME CORNER CONSTRUCTION

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 16-0714.06
Expiration Date March 26, 2021
By Manuel Perez
Miami Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
6/14/16

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

Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Drawn By: F.K.	Date: 9/1/05	Checked By: J.J.	Date: 2/23/07

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

PGT Visibly Better

Description: EXTRUSIONS & FRAME CORNER DETAIL
Title: ALUM. SINGLE HUNG WINDOW, IMPACT
Series/Model: SH700
Scale: Half
Sheet: 7 of 11
Drawing No. 4040-20
Rev: F

ANCHOR QUANTITIES FOR 1/1 FLANGED WINDOWS

TABLE 5.

WINDOW WIDTH	GLASS TYPE	SUBSTRATE: / ANCHOR TYPE:	28.603			34.603			40.603			46.603			52.603			58.603			64.603			76.000		
			2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC
			WINDOW HEIGHT																							
19.125	C,D,E,F,G,H,I,J,K,L		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			1 2	1 1	1 1	1 2	1 1	1 2	2 2	1 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 3	2 2	3 3
	A,B,M		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			1 2	1 1	1 1	1 2	1 1	1 2	2 2	1 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 3	2 2	3 3
24.000	C,D,E,F,G,H,I,J,K,L		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			1 2	1 1	1 2	1 2	1 2	1 2	2 2	1 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 3	2 2	2 3	2 3	2 2	2 3	3 3	2 2	3 3
	A,B,M		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			1 2	1 1	1 2	1 2	1 2	1 2	2 2	1 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 3	2 2	2 3	2 3	2 2	2 3	3 3	2 2	3 3
32.000	C,D,E,F,G,H,I,J,K,L		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	1	1	2	1	1
			1 2	1 2	2 2	2 3	1 2	2 2	2 3	1 2	2 3	2 3	2 2	2 3	2 3	2 2	2 3	3 3	2 2	3 3	3 4	3 2	3 3	3 4	3 3	4 4
	A,B,M		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			1 2	1 2	2 2	2 3	1 2	2 2	2 3	1 2	2 3	2 3	2 2	2 3	2 3	2 2	2 3	3 3	2 2	3 3	3 4	3 2	3 3	3 4	3 3	4 4
37.000	C,D,E,F,G,H,I,J,K,L		1	1	1	1	1	1	2	1	1	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2
			2 2	1 2	2 2	2 3	1 2	2 3	2 3	2 2	2 3	2 3	2 2	2 3	2 3	2 3	2 3	3 4	2 3	3 3	3 4	3 3	3 4	3 5	3 3	4 4
	A,B,M		1	1	1	1	1	1	2	1	1	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2
			2 2	1 2	2 2	2 3	1 2	2 3	2 3	2 2	2 3	2 3	2 2	2 3	2 3	2 3	2 3	3 4	2 3	3 3	3 4	3 3	3 4	3 5	3 3	4 4
40.000	PSF		**79**																							
	C,D,E,F,G,H,I,J,K,L		**2**	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
			2 2	1 2	2 2	2 3	2 2	2 3	2 3	2 2	2 3	2 3	2 3	2 3	2 4	2 3	3 3	3 4	2 3	3 4	3 5	3 3	3 4	4 5	3 3	4 4
	A,B,M		**2**	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
			2 2	1 2	2 2	2 3	2 2	2 3	2 3	2 2	2 3	2 3	2 3	2 3	2 4	2 3	3 3	3 4	2 3	3 4	3 5	3 3	3 4	4 5	3 3	4 4
44.000	PSF		**79**																							
	C,D,E,F,G,H,I,J,K,L		**2**	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
			2 2	2 2	2 2	2 3	2 2	2 3	2 3	2 2	3 3	2 4	2 3	3 3	3 4	2 3	3 3	3 4	2 3	3 4	3 5	3 3	3 4	4 5	3 4	4 5
	A,B,M		**2**	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
			2 2	2 2	2 2	2 3	2 2	2 3	2 3	2 2	3 3	2 4	2 3	3 3	3 4	2 3	3 3	3 4	2 3	3 4	3 5	3 3	3 4	4 5	3 4	4 5
48.000	PSF		**79**		**79**																					
	C,D,E,F,G,H,I,J,K,L		**2**	2	**2**	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	2	2
			2 2	2 2	**2 2**	2 3	2 2	2 3	3 4	2 3	3 3	3 4	2 3	3 4	3 4	2 3	3 4	3 5	3 3	3 4	3 5	3 3	4 5	4 6	3 4	5 5
	A,B,M		**2**	2	**2**	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	2	2
			2 2	2 2	**2 2**	2 3	2 2	2 3	3 4	2 3	3 3	3 4	2 3	3 4	3 4	2 3	3 4	3 5	3 3	3 4	3 5	3 3	4 5	4 6	3 4	5 5
53.125	PSF		**72**		**79**	**79**																				
	C,D,E,F,G,H,I,J,K,L		**2**	2	**2**	**2**	2	2	2	2	2	2	2	2	3	2	2	3	2	2	3	2	3	3	2	3
			2 2	2 2	**2 2**	**2 3**	2 2	2 3	3 4	2 3	3 4	3 4	2 3	3 4	3 4	3 3	3 4	3 5	3 3	4 4	4 6	3 4	4 5	4 6	3 4	5 6
	A,B,M		**2**	2	**2**	**2**	2	2	2	2	2	2	2	2	3	2	2	3	2	2	3	2	2	3	2	3
			2 2	2 2	**2 2**	**2 3**	2 2	2 3	3 4	2 3	3 4	3 4	2 3	3 4	3 4	3 3	3 4	3 5	3 3	4 4	4 5	3 3	4 5	4 6	3 4	4 5

ANCHORAGE NOTES:

1. ANCHOR TYPES: 1 - 1/4" ELCO TAPCONS
   2 - 1/4" ELCO SS4 CRETE-FLEX
   3 - #12 SCREWS

2. ANCHOR LOCATIONS ARE BASED ON THE FOLLOWIING DIMENSIONS.
   HEAD - 18 1/2" MAX. FROM TOP CORNERS
   JAMBS - 17 1/2" MAX. FROM TOP CORNERS
   15" MAX. FROM BOTTOM CORNERS
   6" MAX. BELOW MTG. RAIL
   SILL - ANCHORS NOT REQUIRED

3. INSTALL PER THE ADJACENT TABLE ANCHOR QUANTITIES USING THE DIMENSIONAL CRITERIA OF NOTE 2.

4. TABLE WIDTH AND HEIGHT DIMENSION ARE FOR FLANGED WINDOWS. INTEGRAL FIN DIMENSIONS ARE 1" LESS.

5. DESIGN PRESSURE LIMITATIONS:
   SIZE BLOCKS OF THE ADJACENT TABLE WITH A BOLD ITALICIZED VALUE ABOVE THEM, INDICATE A MAXIMUM DESIGN PRESSURE WITH THE QUANTITY OF ANCHORS SHOWN IN BOLD. OTHERWISE, THE MAXIMUM DESIGN PRESSURE FOR THE RESPECTIVE SIZE AND GLASS TYPE IS AVAILABLE.

TABLE KEY:

MAX. PSF (DP LIMITED)	***118***
HEAD	**2**
JAMB ABOVE MTG. RAIL	**2 3**
JAMB BELOW MTG. RAIL	

(FULL DP)	
HEAD	2
JAMB ABOVE MTG. RAIL	2 3
JAMB BELOW MTG. RAIL	

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 16-0714.06
Expiration Date March 26, 2021
By Manuel Perez
Miami Dade Product Control

ANTHONY LYNN MILLER — LICENSE — NO. 58705 — STATE OF FLORIDA — PROFESSIONAL ENGINEER
6/14/16

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

Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Drawn By: F.K.	Date: 7/29/05	Checked By: J.J.	Date: 2/23/07

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

PGT Visibly Better

Description: ANCHORAGE SPACING, 1/1 WINDOWS
Title: ALUM. SINGLE HUNG WINDOW, IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SH700	NTS	8 of 11	4040-20	F

ANCHOR QUANTITIES FOR STANDARD VIEW AND RADIUS TOP FLANGED WINDOWS — TABLE 6.

WINDOW WIDTH	GLASS TYPE	SUBSTRATE: / ANCHOR TYPE:	WINDOW HEIGHT 29.655			37.155			44.655			52.155			59.655			67.155			74.655			76.000		
			2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC
19.125	C,D,E,F,G, H,I,J,K,L		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			1 1	1 1	1 1	2 2	2 1	2 2	2 2	2 1	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	3 2	2 2	3 2	3 2	2 2	3 2
	A,B,M		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			1 1	1 1	1 1	2 2	2 1	2 2	2 2	2 1	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	3 2	2 2	3 2	3 2	2 2	3 2
24.000	PSF		***79***																							
	C,D,E,F,G, H,I,J,K,L		**1**	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			1 1	1 1	1 1	2 2	1 1	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	3 2	3 2	2 2	3 2	3 2	2 2	3 2	2 2	3 2
	A,B,M		**1**	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			1 1	1 1	1 1	2 2	1 1	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	3 2	3 2	2 2	3 2	3 2	2 2	3 2	2 2	3 2
32.000	PSF		***68***		***77***																					
	C,D,E,F,G, H,I,J,K,L		**1**	1	**1**	1	1	1	1	1	1	**2**	1	1	**2**	1	1	1	1	1	1	1	1	1	1	1
			1 1	1 1	**1 1**	2 2	2 2	2 2	2 3	2 2	2 2	3 3	2 2	3 3	3 3	3 2	3 3	3 3	2 2	3 3	4 3	3 2	4 3	4 3	3 2	4 3
	A,B,M		**1**	1	**1**	1	1	1	1	1	1	**2**	1	1	**2**	1	1	1	1	1	1	1	1	1	1	1
			1 1	1 1	**1 1**	2 2	2 2	2 2	2 3	2 2	2 2	3 3	2 2	3 3	3 3	3 2	3 3	3 3	2 2	3 3	4 3	3 2	4 3	4 3	3 2	4 3
37.000	PSF		***59***		***67***	***79***																				
	C,D,E,F,G, H,I,J,K,L		**1**	1	**1**	**2**	1	1	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2
			1 1	1 1	**1 1**	**2 2**	2 2	2 2	2 3	2 2	2 3	3 3	2 2	3 3	3 3	3 3	4 3	3 3	3 2	3 3	4 3	3 2	4 3	4 4	3 2	4 3
	A,B,M		**1**	1	**1**	**2**	1	1	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2
			1 1	1 1	**1 1**	**2 2**	2 2	2 2	2 3	2 2	2 3	3 3	2 2	3 3	3 3	3 3	4 3	3 3	3 2	3 3	4 3	3 2	4 3	4 4	3 2	4 3
40.000	PSF		***54***	***79***	***62***	***79***																				
	C,D,E,F,G, H,I,J,K,L		**2**	**2**	**2**	**2**	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
			1 1	**1 1**	**1 1**	**2 2**	2 2	2 2	2 3	2 2	3 3	3 3	2 2	3 3	4 3	3 3	4 3	3 3	3 3	4 3	4 4	3 3	4 3	4 4	3 3	5 3
	A,B,M		**2**	**2**	**2**	**2**	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
			1 1	**1 1**	**1 1**	**2 2**	2 2	2 2	2 3	2 2	3 3	3 3	2 2	3 3	4 3	3 3	4 3	3 3	3 3	4 3	4 4	3 3	4 3	4 4	3 3	5 3
44.000	PSF		***49***	***79***	***56***	***79***		***79***																		
	C,D,E,F,G, H,I,J,K,L		**2**	**2**	**2**	**2**	2	**2**	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
			1 1	**1 1**	**1 1**	**2 2**	2 2	**2 2**	3 3	2 2	3 3	3 4	2 3	3 3	4 4	3 3	4 3	4 4	3 3	4 3	4 4	3 3	4 3	4 4	3 3	5 4
	A,B,M		**2**	**2**	**2**	**2**	2	**2**	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
			1 1	**1 1**	**1 1**	**2 2**	2 2	**2 2**	3 3	2 2	3 3	3 4	2 3	3 3	4 4	3 3	4 3	4 4	3 3	4 3	4 4	3 3	4 3	4 4	3 3	5 4
48.000	PSF		***45***	***74***	***51***	***74***		***79***	***79***																	
	C,D,E,F,G, H,I,J,K,L		**2**	**2**	**2**	**2**	2	**2**	**2**	2	2	2	2	2	3	2	2	2	2	2	3	2	2	3	2	2
			1 1	**1 1**	**1 1**	**2 2**	2 2	**2 2**	**3 3**	2 2	3 3	3 4	3 3	3 3	4 4	3 3	4 4	4 4	3 3	4 4	4 4	4 3	5 4	4 4	4 3	5 4
	A,B,M		**2**	**2**	**2**	**2**	2	**2**	**2**	2	2	2	2	2	3	2	2	2	2	2	3	2	2	3	2	2
			1 1	**1 1**	**1 1**	**2 2**	2 2	**2 2**	**3 3**	2 2	3 3	3 4	3 3	3 3	4 4	3 3	4 4	4 4	3 3	4 4	4 4	4 3	5 4	4 4	4 3	5 4
53.125	PSF		***41***	***67***	***46***	***67***		***76***	***79***																	
	C,D,E,F,G, H,I,J,K,L		**2**	**2**	**2**	**2**	2	**2**	**3**	2	2	3	2	3	3	2	3	3	2	3	3	2	3	3	2	3
			1 1	**1 1**	**1 1**	**2 2**	2 2	**2 2**	**3 3**	3 3	3 3	4 4	3 3	4 4	4 4	3 3	4 4	4 4	3 3	4 4	5 5	4 3	5 4	5 5	4 3	5 4
	A,B,M		**2**	**2**	**2**	**2**	2	**2**	**3**	2	2	3	2	3	3	2	3	3	2	2	3	2	3	3	2	3
			1 1	**1 1**	**1 1**	**2 2**	2 2	**2 2**	**3 3**	3 3	3 3	4 4	3 3	4 4	4 4	3 3	4 4	4 4	3 3	4 4	5 4	4 3	5 4	5 4	4 3	5 4

ANCHORAGE NOTES:

1. ANCHOR TYPES: 1 - 1/4" ELCO TAPCONS
   2 - 1/4" ELCO SS4 CRETE-FLEX
   3 - #12 SCREWS
2. ANCHOR LOCATIONS ARE BASED ON THE FOLLOWING DIMENSIONS:
   HEAD - 18 1/2" MAX. FROM TOP CORNERS
   JAMBS - 17 1/2" MAX. FROM TOP CORNERS
   15" MAX. FROM BOTTOM CORNERS
   6" MAX. BELOW MTG. RAIL
   SILL - ANCHORS NOT REQUIRED
3. INSTALL PER THE ADJACENT TABLE ANCHOR QUANTITIES USING THE DIMENSIONAL CRITERIA OF NOTE 2.
4. TABLE WIDTH AND HEIGHT DIMENSION ARE FOR FLANGED WINDOWS. INTEGRAL FIN DIMENSIONS ARE 1" LESS.
5. DESIGN PRESSURE LIMITATIONS:
   SIZE BLOCKS OF THE ADJACENT TABLE WITH A BOLD ITALICIZED VALUE ABOVE THEM, INDICATE A MAXIMUM DESIGN PRESSURE WITH THE QUANTITY OF ANCHORS SHOWN IN BOLD. OTHERWISE, THE MAXIMUM DESIGN PRESSURE FOR THE RESPECTIVE SIZE AND GLASS TYPE IS AVAILABLE.

TABLE KEY:

MAX. PSF (DP LIMITED)	***117***
HEAD	**3**
JAMB ABOVE MTG. RAIL	**3 3**
JAMB BELOW MTG. RAIL	
(FULL DP)	
HEAD	2
JAMB ABOVE MTG. RAIL	2 2
JAMB BELOW MTG. RAIL	

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Acceptance No 16-0714.06
Expiration Date March 26, 2021
By Manuel Perez
Miami Dade Product Control

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

Revsd By:	Date:	Revisions:
Revsd By:	Date:	Revisions:
Revsd By:	Date:	Revisions:
Drawn By: F.K.	Date: 7/29/05	Checked By: J.J. Date: 2/23/07

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

PGT Visibly Better

Description: ANCHORAGE SPACING, STANDARD VIEW
Title: ALUM. SINGLE HUNG WINDOW, IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SH700	NTS	9 of 11	4040-20	F

ANCHOR QUANTITIES ABOVE MEETING RAIL (HEAD & JAMBS), CUSTOM FLANGED WINDOW HEIGHT MINUS SASH HEIGHT TABLE 7.

WINDOW HEIGHT MINUS SASH HEIGHT FROM TABLE 8.

SUBSTRATE: / ANCHOR TYPE:		17.125			22.668			28.211			33.754			39.296			44.839			50.382			55.925		
WINDOW WIDTH	GLASS TYPE	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC
19.125	D,E,F,J, K,L	1 1	1 1	1 1	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 3	1 2	1 3	1 3	1 2	1 3	1 3	1 3	1 3
24.000	D,E,F,J, K,L	1 1	1 1	1 1	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 3	1 3	1 2	1 3	1 3	1 2	1 3	1 3	1 3	1 3	1 3	1 3	1 4
32.000	D,E,F,J, K,L	1 1	1 1	1 1	1 2	1 2	1 2	2 3	1 2	1 3	2 3	1 3	1 3	1 3	1 2	1 3	1 4	1 3	1 4	1 4	1 3	1 4	1 5	1 3	1 5
37.000	PSF						***79***																		
	D,E,F,J, K,L	1 1	1 1	1 1	2 2	1 2	**2** **2**	2 3	1 2	2 3	2 3	1 3	2 4	2 3	1 3	2 3	2 4	1 3	2 4	2 4	1 4	2 5	2 5	1 4	2 5
40.000	PSF			***79***	***79***		***79***			***79***															
	D,E,F,J, K,L	2 1	2 1	**2** **1**	**2** **2**	2 2	**2** **2**	2 3	2 3	**2** **3**	2 4	2 3	2 4	2 4	2 3	2 4	2 4	2 3	2 5	2 4	2 4	2 5	2 5	2 4	2 6
44.000	PSF	***79***		***76***	***79***		***77***	***79***		***79***			***79***												
	D,E,F,J, K,L	**2** **1**	2 1	**2** **1**	**2** **2**	2 2	**2** **2**	**2** **3**	2 3	**2** **3**	2 4	2 4	**2** **4**	2 4	2 3	2 5	2 4	2 3	2 5	2 5	2 4	2 5	2 5	2 4	2 6
48.000	PSF	***78***	***79***	***70***	***79***	***79***	***71***	***79***		***73***			***76***												
	D,E,F,J, K,L	**2** **1**	**2** **1**	**2** **1**	**2** **2**	**2** **2**	**2** **2**	**2** **3**	2 3	**2** **3**	3 4	2 4	**2** **4**	2 5	2 4	2 5	3 5	2 4	2 6	3 5	2 4	2 6	3 6	2 5	2 6
53.125	PSF	***71***	***79***	***63***	***71***	***79***	***64***	***74***		***66***	***77***		***69***						***69***						
	D,E,F,J, K,L	**2** **1**	**2** **1**	**2** **1**	**2** **2**	**2** **2**	**2** **2**	**3** **3**	2 3	**2** **3**	**3** **4**	2 4	**3** **4**	3 5	2 4	3 5	3 6	2 5	**3** **6**	3 6	2 5	3 7	3 6	2 5	3 7

ANCHOR QUANTITIES AT JAMBS BELOW MEETING RAIL, CUSTOM FLANGED WINDOWS BASED ON SASH HT. TABLE 8.

SASH HEIGHT

SUBSTRATE: / ANCHOR TYPE:		12.776			15.776			18.776			21.776			24.776			27.776			30.776			31.106		
WINDOW WIDTH		2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC
19.125		1	1	1	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
24.000		2	1	1	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	2	2
32.000		2	1	2	2	2	2	3	2	2	3	2	3	3	2	3	3	2	3	4	2	3	4	2	3
37.000					***79***																				
		2	1	2	**2**	2	2	3	2	3	3	2	3	3	3	3	3	3	3	4	3	3	4	3	4
40.000					***74***																				
		2	2	2	**2**	2	2	3	2	3	3	2	3	3	3	3	4	3	3	4	3	4	4	3	4
44.000					***68***		***78***																		
		2	2	2	**2**	2	**2**	3	2	3	3	3	3	4	3	3	4	3	4	5	3	4	5	3	4
48.000					***63***		***72***	***79***																	
		2	2	2	**2**	2	**2**	**3**	2	3	4	3	3	4	3	4	4	3	4	5	3	4	5	3	4
53.125		***73***			***58***		***66***	***72***																	
		2	2	2	**2**	2	**2**	**3**	3	3	4	3	4	4	3	4	5	3	4	5	3	5	5	3	5

ANCHORAGE NOTES:

1. ANCHOR TYPES: 1 - 1/4" ELCO TAPCONS
   2 - 1/4" ELCO SS4 CRETE-FLEX
   3 - #12 SCREWS
2. ANCHOR LOCATIONS ARE BASED ON THE FOLLOWIING DIMENSIONS:
   HEAD - 18 1/2" MAX. FROM CORNERS
   JAMBS - 17 1/2" MAX. FROM TOP CORNERS
   11 1/2" MAX. ABOVE THE MEETING RAIL
   6" MAX. BELOW MTG. RAIL
   15" MAX. FROM BOTTOM CORNERS
   SILL - ANCHORS NOT REQUIRED
3. DETERMINE THE ANHCOR QUANTITIES FOR CUSTOM VIEW WINDOWS FROM TABLES 7. AND 8. USING THE DIMENSIONAL CRITERIA OF NOTE 2. USE TABLE 7. FOR ABOVE THE MEETING RAIL AND TABLE 8. FOR BELOW.
4. AVAILABLE SASH HEIGHTS FOR CUSTOM VIEW WINDOWS ARE 12 5/8" MIN. TO 38" MAX.
5. TABLE WIDTH AND HEIGHT DIMENSION ARE FOR FLANGED WINDOWS. INTEGRAL FIN DIMENSIONS ARE 1" LESS.
6. DESIGN PRESSURE LIMITATIONS:
   SIZE BLOCKS OF THE ADJACENT TABLE WITH A BOLD ITALICIZED VALUE ABOVE THEM, INDICATE A MAXIMUM DESIGN PRESSURE WITH THE QUANTITY OF ANCHORS SHOWN IN BOLD. OTHERWISE, THE MAXIMUM DESIGN PRESSURE FOR THE RESPECTIVE SIZE AND GLASS TYPE IS AVAILABLE.

TABLE 7. KEY:

MAX. PSF	
(DP LIMITED)	***112***
HEAD	**2**
JAMB ABOVE MTG. RAIL	**2**
(FULL DP) HEAD	2
JAMB ABOVE MTG. RAIL	4

TABLE 8. KEY:

MAX. PSF	
(DP LIMITED)	***112***
JAMB BELOW MTG. RAIL	**2**
(FULL DP) JAMB BELOW MTG. RAIL	2

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ANTHONY LYNN MILLER — LICENSE — No. 58705 — STATE OF FLORIDA — PROFESSIONAL ENGINEER
6/14/16

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

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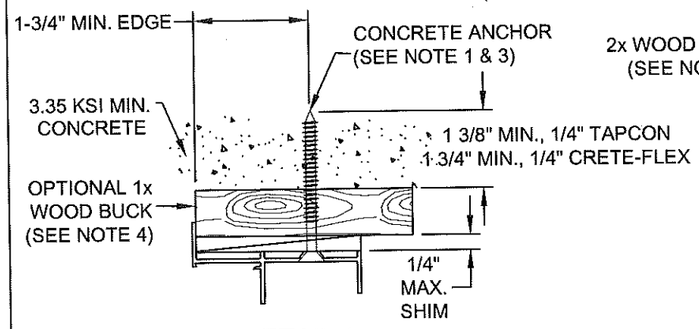
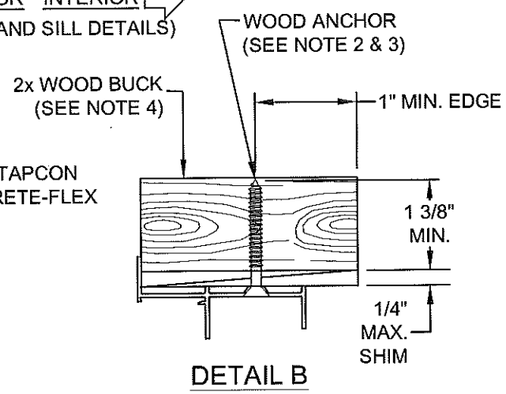
Description: ANCHORAGE SPACING, CUSTOM VIEW
Title: ALUM. SINGLE HUNG WINDOW, IMPACT
Series/Model: SH700 | Scale: NTS | Sheet: 10 of 11 | Drawing No. 4040-20 | Rev: F

EXTERIOR INTERIOR
(ALL HEAD AND SILL DETAILS)

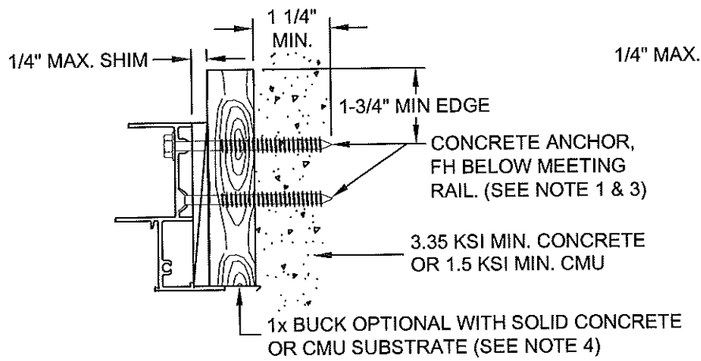


DETAIL A

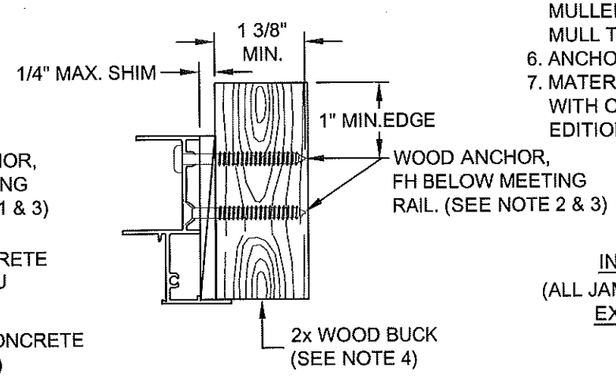


DETAIL B

TYPICAL FLANGED HEAD ANCHORAGE

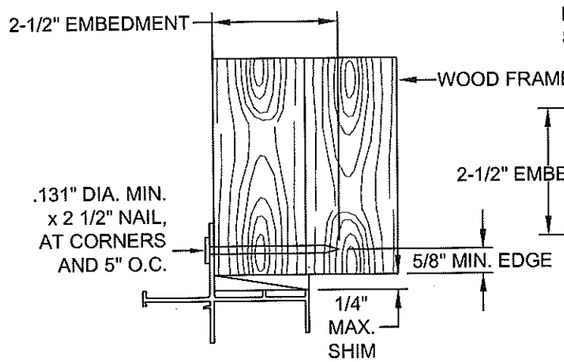


DETAIL C

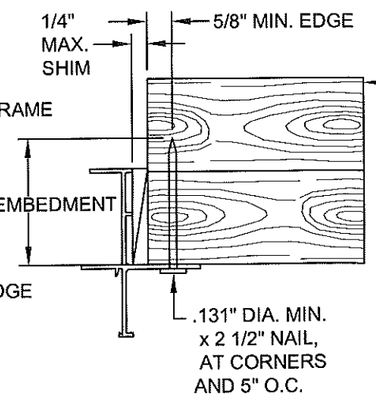


DETAIL D

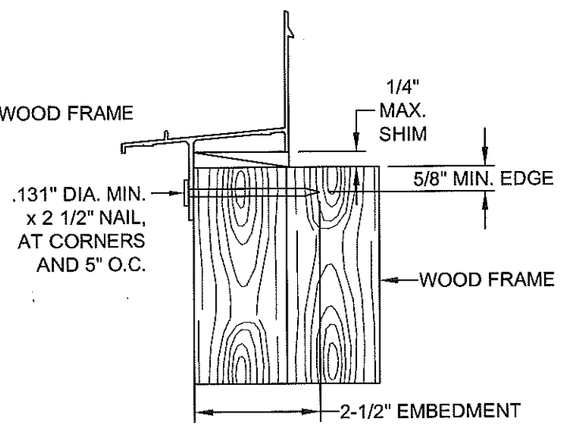
TYPICAL FLANGED JAMB ANCHORAGE



DETAIL F, (HEAD)



DETAIL E, (JAMB)



DETAIL G, (SILL)

TYPICAL INTEGRAL FIN ANCHORAGE

INTERIOR
(ALL JAMB DETAILS)
EXTERIOR

NOTES:

1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED 1/4" ELCO TAPCONS OR 1/4" SS4 CRETE-FLEX. MINIMUM DISTANCE FROM ANCHOR TO CONCRETE EDGE IS 1 3/4".
2. FOR WOOD APPLICATIONS IN MIAMI-DADE COUNTY, USE #12 STEEL SCREWS (G5) OR 1/4" SS4 CRETE-FLEX.
3. FLAT HEAD ANCHORS, WHERE REQUIRED, MUST HAVE #12 TRIMFIT HEADS.
4. WOOD BUCKS DEPICTED IN THE SECTIONS ON THIS PAGE AS 1x ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1 1/2". 1x WOOD BUCKS ARE OPTIONAL IF UNIT CAN BE INSTALLED DIRECTLY TO SOLID CONCRETE OR CMU. WOOD BUCKS DEPICTED AS 2x ARE 1 1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY AUTHORITY HAVING JURISDICTION.
5. FOR ATTACHMENT TO ALUMINUM: THE MATERIAL 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 WINDOW FRAME SIMILAR TO THAT SHOWN IN THESE DETAILS FOR 2x WOOD BUCKS. THE ANCHOR SHALL BE A #12 SHEET METAL SCREW WITH FULL ENGAGEMENT INTO THE ALUMINUM. IF THESE CRITERIA ARE MET, THE RESPECTIVE DESIGN PRESSURES AND ANCHORAGE SPACING FOR TAPCONS MAY BE USED. A FLANGED FRAME COMPONENT MAY BE SUBSTITUTED FOR AN INTEGRAL FIN FRAME COMPONENT FOR MULLED APPLICATIONS. FOR INTEGRAL FIN MULLED APPLICATIONS IT IS EXCEPTABLE TO REMOVE THE FIN AND ATTACH TO THE MULL THROUGH THE FRAME USING THE FLANGED FRAME ANCHORAGE REQUIREMENT.
6. ANCHORS ARE NOT REQUIRED AT THE SILL OF FLANGED UNITS.
7. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FBC CURRENT, EDITION.

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Title: ALUM. SINGLE HUNG WINDOW, IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SH700	NTS	11 of 11	4040-20	F

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