



**BUILDING CODE COMPLIANCE OFFICE**  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908

**CONTRACTOR LICENSING SECTION**  
(305) 375-2527 FAX (305) 375-2558

**CONTRACTOR ENFORCEMENT DIVISION**  
(305) 375-2966 FAX (305) 375-2908

**PRODUCT CONTROL DIVISION**  
(305) 375-2902 FAX (305) 372-6339

**PRODUCT CONTROL NOTICE OF ACCEPTANCE**

**PGT Industries**  
**1070 Technology Drive**  
**Nokomis ,FL 34275**

Your application for Notice of Acceptance (NOA) of:

**Series SH-701 Aluminum Single Hung Window - Non-Impact & Large Missile Impact**

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

**ACCEPTANCE NO.: 01-0109.01**  
**EXPIRES: 02/25/2006**

Raul Rodriguez  
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL  
CONDITIONS  
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.  
Director  
Miami-Dade County  
Building Code Compliance Office

**APPROVED: 04/12/2001**

**PGT Industries**

**ACCEPTANCE No.:** 01-0109.01

**APPROVED:** APR 12 2001

**EXPIRES** : February 26, 2006

**NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS**

**1. SCOPE**

**1.1** This **renews** the Notice of Acceptance No. 97-0310.02, which was issued on 02/26/98. It approves an aluminum single hung window, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

**2. PRODUCT DESCRIPTION**

**2.1** The **Series SH-701 Aluminum Single Hung Window – Non-Impact and Large Missile Impact Resistant** and its components shall be constructed in strict compliance with the following documents: Drawing No **4032**, titled “Aluminum Single Hung Windows” Sheets 1 through 7 of 7, dated 11/27/96, revised on 01/04/01, signed and sealed by R. L. Clark, 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. These documents shall hereinafter be referred to as the approved drawings.

**3. LIMITATIONS**

**3.1** This approval applies to single unit applications only, as shown in approved drawings.  
**3.2** For Design Pressure Rating of Large Missile Impact see sheet 1 and for Design Pressure Rating of Non Impact see sheets 4 & 7 of approved drawings.

**4. INSTALLATION**

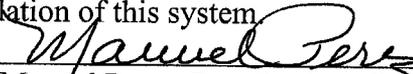
**4.1** The aluminum single hung window and its components shall be installed in strict compliance with the approved drawings.  
**4.2** Hurricane protection system (shutters): to determine whether the installation requires a hurricane protection system or not, see corresponding table in approved drawing.

**5. LABELING**

**5.1** 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".

**6. BUILDING PERMIT REQUIREMENTS**

**6.1** Application for building permit shall be accompanied by copies of the following:  
**6.1.1** This Notice of Acceptance  
**6.1.2** Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.  
**6.1.3** Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

  
Manuel Perez, P.E. Product Control Examiner  
Product Control Division

**PGT Industries**

**ACCEPTANCE No.:** 01-0109.01

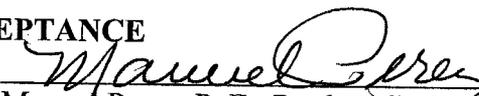
**APPROVED:** APR 12 2001

**EXPIRES** : February 26, 2006

**NOTICE OF ACCEPTANCE: STANDARD CONDITIONS**

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
  - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
  - b. The product is no longer the same product (identical) as the one originally approved.
  - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
  - d. The engineer, who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
  - a. Unsatisfactory performance of this product or process;
  - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.
6. The Notice of Acceptance number preceded by the words Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all times. The engineer does not need to reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Acceptance contains pages 1, 2, and this last page 3.

**END OF THIS ACCEPTANCE**

  
Manuel Perez, P. E., Product Control Examiner  
Product Control Division

PGT Industries

ACCEPTANCE No.: 01-0109.01

APPROVED: APR 12 2001

EXPIRES : February 26, 2006

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

*(For File ONLY. Not part of NOA.)*

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **4032**, titled "Aluminum Single Hung Windows" Sheets 1 through 7 of 7, dated 11/27/96, revised on 01/04/01, signed and sealed by R. L. Clark, P.E.

**B. TESTS**

1. Test reports on
  - 1) Air Infiltration Test, per PA 202-94
  - 2) Uniform Static Air Pressure Test, Loading per PA 202-94
  - 3) Water Resistance Test, per PA 202-94
  - 6) Forced Entry Test, per SFBC 3603.2 (b) and PA 202-94along with marked-up drawings and installation diagram of an O/X configuration 53-1/8" wide by 76" high series SH-701 aluminum single hung window glazed with 3/16" tempered glass, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-1536**, dated 01/15/97, signed and sealed by Gilbert Diamond, P.E.
2. Test reports on
  - 1) Air Infiltration Test, per PA 202-94
  - 2) Uniform Static Air Pressure Test, Loading per PA 202-94
  - 3) Water Resistance Test, per PA 202-94
  - 4) Small Missile Impact Test per SFBC, PA 201-94
  - 5) Cyclic Wind Pressure Loading per SFBC, PA 203-94
  - 6) Forced Entry Test, per SFBC 3603.2 (b) and PA 202-94along with marked-up drawings and installation diagram of an O/X configuration 53-1/8" wide by 76" high series SH-701 aluminum single hung window glazed with 1/4" tempered glass, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-1533**, dated 01/30/97, signed and sealed by Gilbert Diamond, P.E.
3. Test reports on
  - 1) Air Infiltration Test, per PA 202-94
  - 2) Uniform Static Air Pressure Test, Loading per PA 202-94
  - 3) Water Resistance Test, per PA 202-94
  - 4) Large Missile Impact Test per SFBC, PA 201-94
  - 5) Cyclic Wind Pressure Loading per SFBC, PA 203-94
  - 6) Forced Entry Test, per SFBC 3603.2 (b) and PA 202-94along with marked-up drawings and installation diagram of and O/X configuration 53-1/8" wide by 76" high series SH-701 aluminum single hung window glazed with 3/16" annealed Sentryglas, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-1531**, dated 01/14/97, signed and sealed by Gilbert Diamond, P.E.

  
Manuel Perez, P.E. Product Control Examiner  
Product Control Division

**PGT Industries**

ACCEPTANCE No.: 01-0109.01

APPROVED: APR 12 2001

EXPIRES : February 26, 2006

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**  
*(For File ONLY. Not part of NOA.)*

**C. CALCULATIONS**

1. Comparative Analysis and Anchor Calculations, prepared by I. R. Dory, PE, dated 03/03/97, signed and sealed by I. R. dory, PE.

**D. MATERIAL CERTIFICATIONS**

1. Aggregate Certification, dated 11/10/95, by CSR Rinker Materials for No. 6 coarse mineral aggregates per ASTM D-1863 "Standard Specification for Mineral Aggregate Used on Built-Up Roofs.

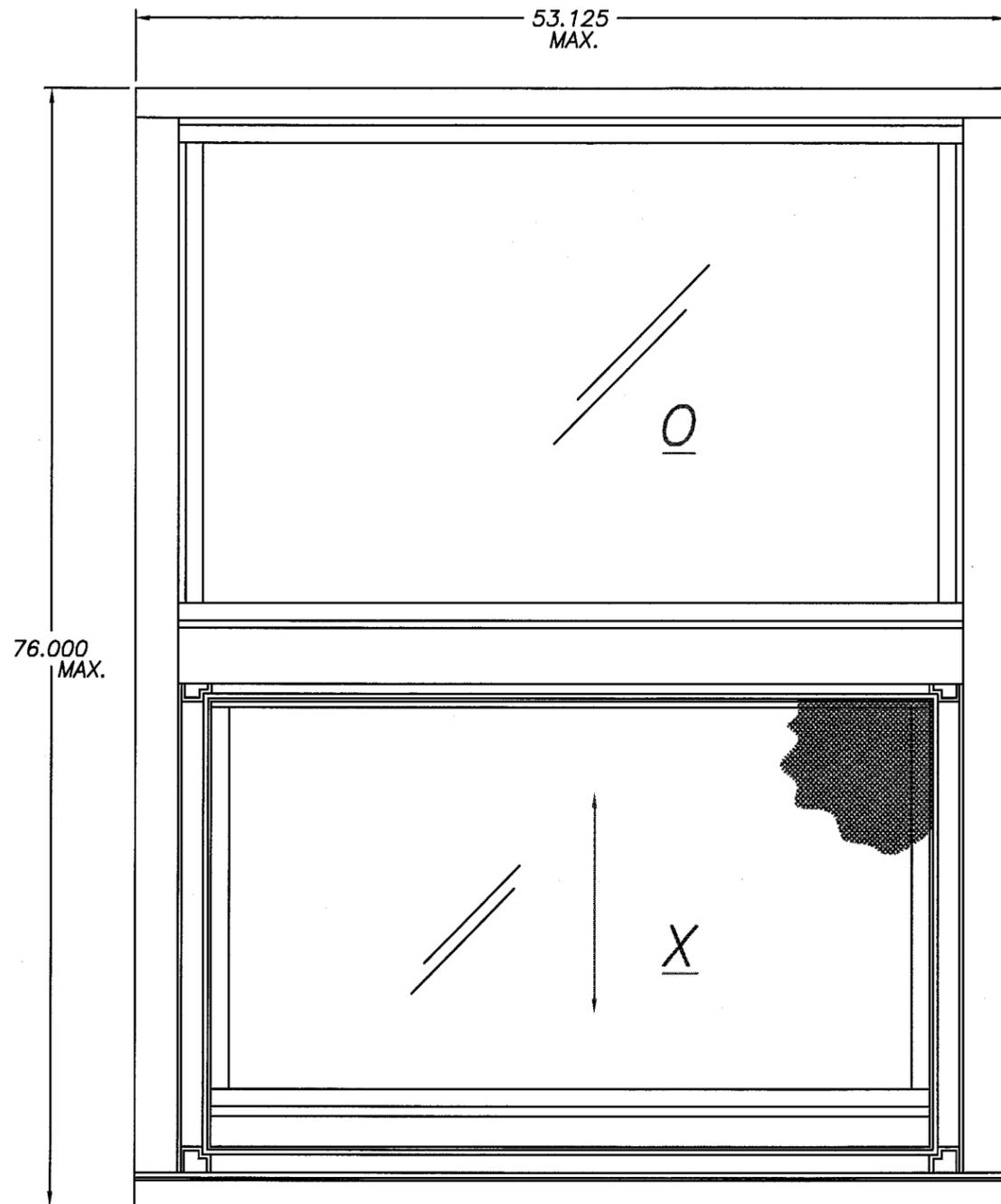
**E. STATEMENTS**

1. Statement letter of No-Change issued by PGT Industries on 03/09/2001, signed and sealed by R. L. Clark, P.E.
2. Statement letter of Code Compliance issued by PGT Industries on 01/05/2001, signed and sealed by R. L. Clark, P.E.
3. Statement letter of no financial interest issue by M. LaFevre on 02/28/97 and notarized by J. P. Theena on 02/28/97.
4. Statement letter of Code Compliance issued by I. R. Dory, PE. on 03/03/97, signed and sealed I. R. Dory, PE.

**F. OTHER**

1. This file revises and replaces NOA No. 97-0310.02, which expires on 02/26/01. The revision consists of transition from small missile impact test (aggregate) to non-impact.

  
Manuel Perez, P.E. Product Control Examiner  
Product Control Division



**ELEVATION**

ITEM	DESCRIPTION	V.T. #	VENDOR	VENDOR #
1	FLANGED FRAME HEAD	612225	ALUMAX EXTRUSIONS	AF-12225
2	FLANGED FRAME SILL	612226	ALUMAX EXTRUSIONS	AF-12226
3	FLANGED FRAME JAMB	612227	ALUMAX EXTRUSIONS	AF-12227
4	FIXED MEETING RAIL	612228	ALUMAX EXTRUSIONS	AF-12228
5	SASH TOP RAIL	612229	ALUMAX EXTRUSIONS	AF-12229
6	SASH BOTTOM RAIL	612230	ALUMAX EXTRUSIONS	AF-12230
7	SASH SIDE RAIL	612231	ALUMAX EXTRUSIONS	AF-12231
8	GLAZING BEAD	612234	ALUMAX EXTRUSIONS	AF-12234
9	WEATHERSTRIP - VINYL BULB	6TP247K	TEAM PLASTICS	TP-247
10	3/16" ANNEALED GLASS		PPG. LOF	
11	3/16" ANN. GLASS W/DUPONT 457 FILM		LAM. BY ROMAG. VERICOM	
12	1/4" TEMPERED GLASS		PPG. LOF	
13	#6 x .750 PHIL. PN. HD.	7658PFAA	AQUA FASTENERS	
14	SWEEP LATCH		MINIATURE DIE CASTING	PGT.214.XX
15	#8 x .625 PHIL FLT. HD.	7858WW	MERCHANTS FASTENER CORP.	
16	WINDLOAD ADAPTER	612236	ALUMAX EXTRUSIONS	AF-12236
17	#8 x .375 PHIL. P.H. TEK	78X38PPT	MERCHANTS FASTENER CORP.	
18	WEATHERSTRIP - VINYL BULB\SASH	6TP249K	TEAM PLASTICS	TP-249
19	SASH TOP GUIDE		MASTER TOOL	7-M10-344
20	SCREEN		VINYL TECH.\PGT	
21	BALANCE COVER		WYBORG	5TAVE
22	BALANCE		CALDWELL MANUFACTURING INC.	
23	WEATHERSTRIP - PILE\FINSEAL	61062W	SCHLEGEL CORP.	FS7826-187
24	SASH FACE GUIDE	70251	MASTER TOOL	7-M10-251
25	#6 x .500 PHIL. FLT. HD.	76X12FPWA	SCHERER INDUST. PRODUCTS	
26	SASH STOP	612244	ALUMAX EXTRUSIONS	AF-12244
27	#8 x 1.000 PHIL. P.H. SMS	78X1PPA	MERCHANTS FASTENER CORP.	
28	SILICON	62899	DOW CORNING	899
29	WEATHERSTRIP - VINYL BULB\SASH	6TP248K	TEAM PLASTICS	TP-248

**LARGE MISSILE IMPACT WINDOWS**

- 1.) GLAZING: 3/16" ANN. SENTRY GLASS
- 2.) CONFIGURATIONS: OX
- 3.) DESIGN PRESSURE RATING:

	*WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IN NOT NEEDED
POSITIVE	+60 PSF	+60 PSF
NEGATIVE	-60 PSF	-60 PSF

- 4.) ANCHORS:  
MAX. 6" FROM EACH CORNER  
MAX. SPACING AT HEAD & SILL: 11,000  
MAX. SPACING AT JAMBS: 16,000 (8" IN MEETING RAIL AREA)
- 5.) SHUTTER REQUIREMENT:  
NO SHUTTERS REQUIRED
- 6.) REFERENCE TEST REPORT: FTL 1531

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
 DATE **APR 12 2001**  
 BY *Maurice Spring*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 01-0109.01

**NON-IMPACT WINDOWS**

- 1.) GLAZING: 3/16" ANN.
- 2.) CONFIGURATIONS: OX
- 3.) DESIGN PRESSURE RATING:  
SEE COMPARATIVE ANALYSIS TABLES ON SHEET 4
- 4.) ANCHORS:  
SEE COMPARATIVE ANALYSIS TABLES ON SHEET 4
- 5.) SHUTTER REQUIREMENT:  
SHUTTERS ARE REQUIRED AT ALL INSTALLATIONS
- 6.) REFERENCE TEST REPORT: FTL 1536

**NON-IMPACT WINDOWS**

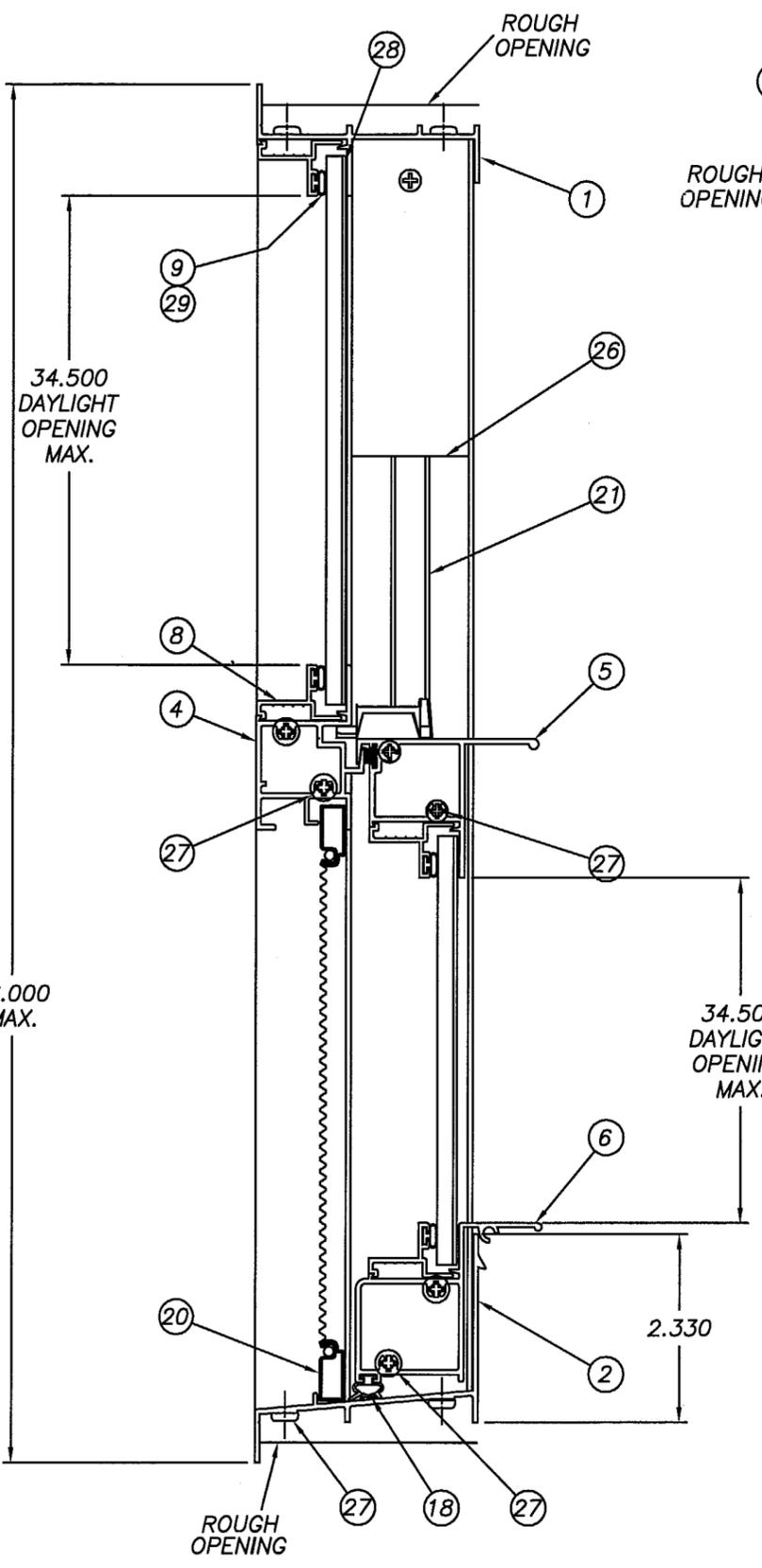
- 1.) GLAZING: 1/4" TEMPERED
- 2.) CONFIGURATIONS: OX
- 3.) DESIGN PRESSURE RATING:  
SEE COMPARATIVE ANALYSIS TABLES ON SHEET 7
- 4.) ANCHORS:  
SEE COMPARATIVE ANALYSIS TABLES ON SHEET 7
- 5.) SHUTTER REQUIREMENT:  
SHUTTERS ARE REQUIRED AT ALL INSTALLATIONS
- 6.) REFERENCE TEST REPORT: FTL 1533

*Robert L. Clark*  
**Robert L. Clark, P.E.**  
 P.E. #39712  
 Structural

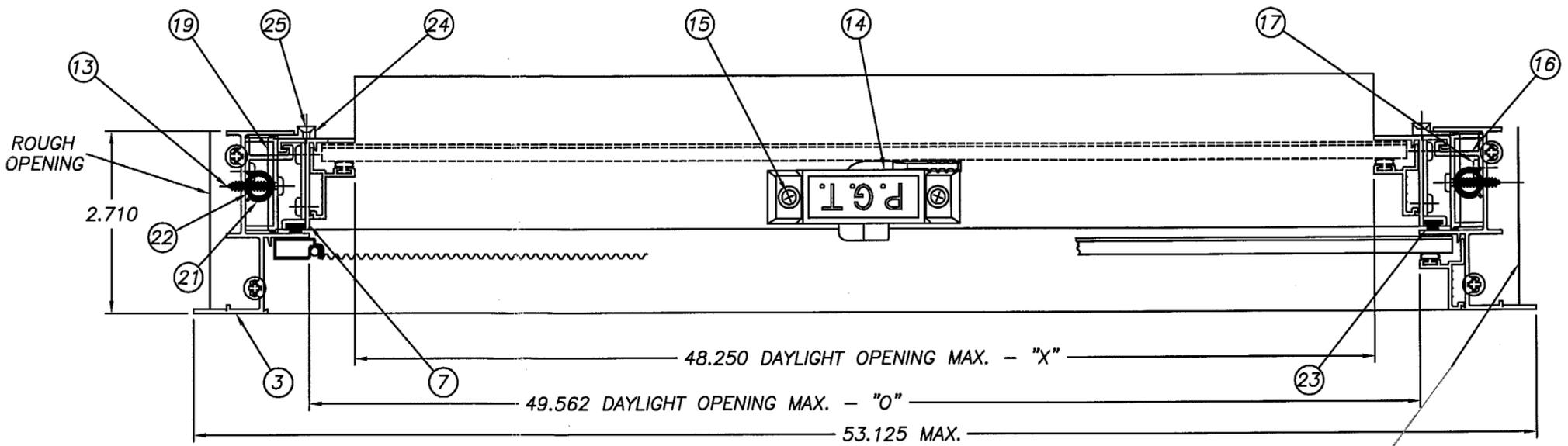


1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275	P.O. BOX 1529 NOKOMIS, FL 34274	Series/Model: SH-701	Scale: NTS	Sheet: 1 of 7	Drawing No. 4032	Rev: C
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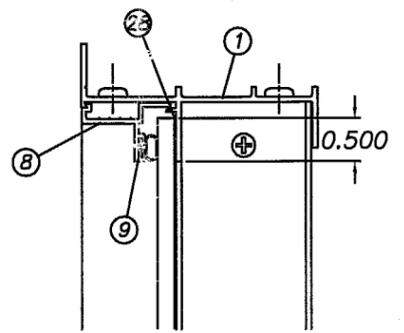
Revsd By: F.K.	Date: 1/4/01	Chkd By:	Date:	Revisions:
Drawn By: R.S.	Date: 11/27/96			
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Title: ALUMINUM SINGLE HUNG WINDOWS				



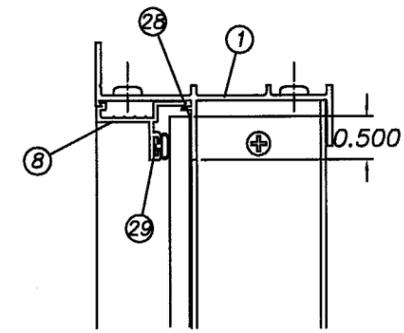
**VERTICAL SECTION**



**HORIZONTAL SECTION**



**3/16" ANNEALED GLASS**



**3/16" W/DUPONT FILM - (457) INTERIOR SIDE  
1/4" TEMPERED GLASS**

**GLAZING OPTIONS**

- 1) CORNER CONSTRUCTION:  
FRAME CORNERS ARE SEALED W/ WHITE SEALANT SCHNEE/MOREHEAD #5504  
FRAME HAS BUTT JOINTS. FRAME CORNERS AND FIXED MEETING RAIL ARE SECURED WITH (2) #8x1" PPH SMS
- 2) WEEP HOLES:  
(2) 1/2" WEEP NOTCHES AT ENDS OF SILL SCREEN RETAINERS

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE **APR 12 2001**  
BY *Manuel Perez*  
PERMIT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
APPROVAL NO. 01-0109.01

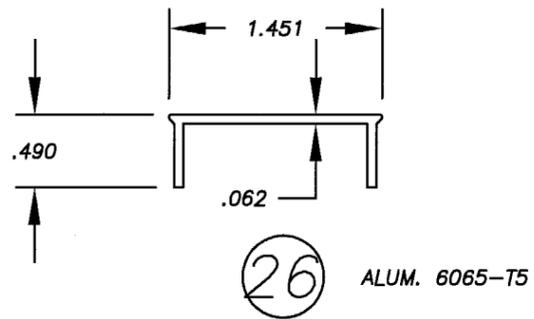
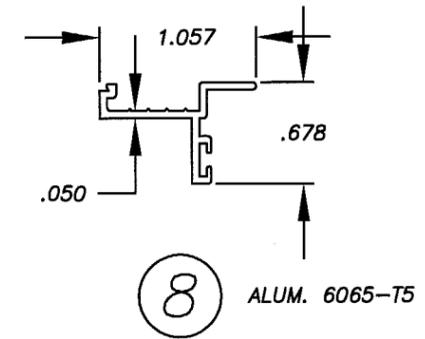
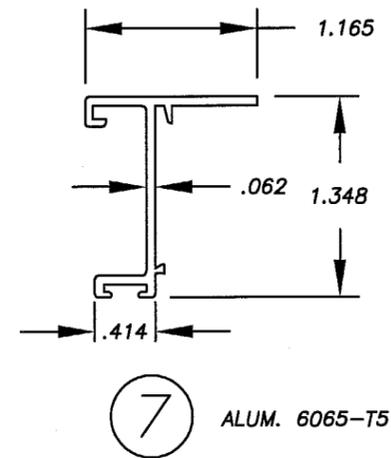
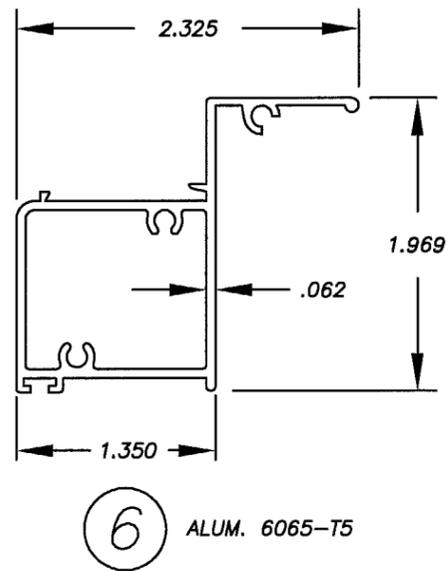
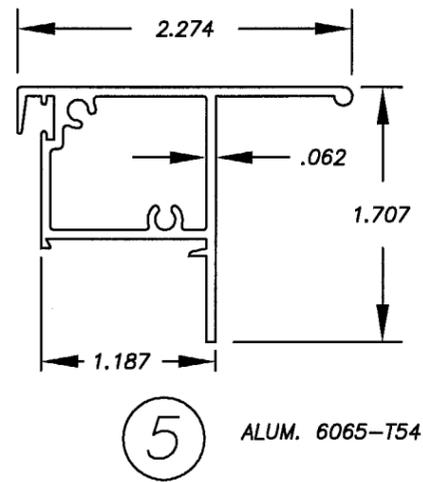
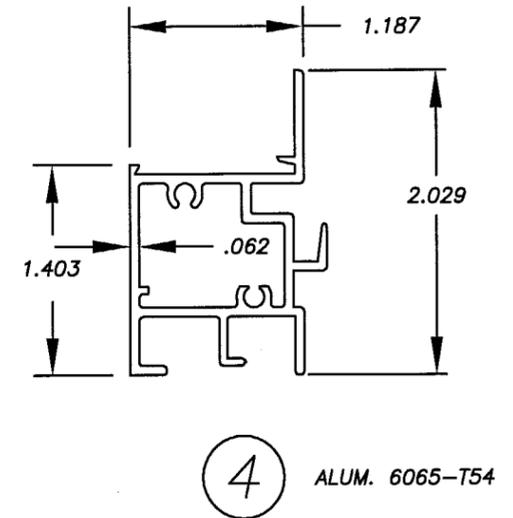
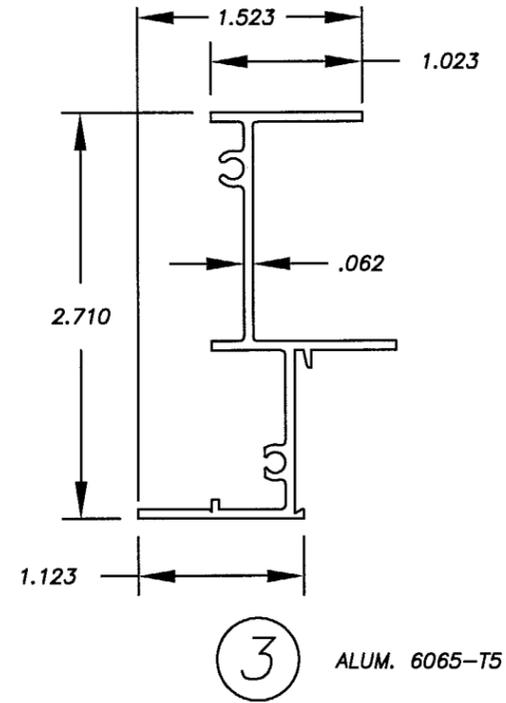
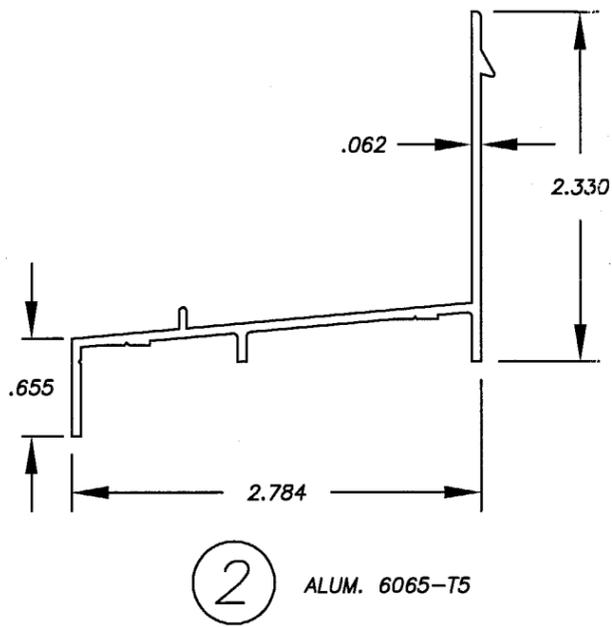
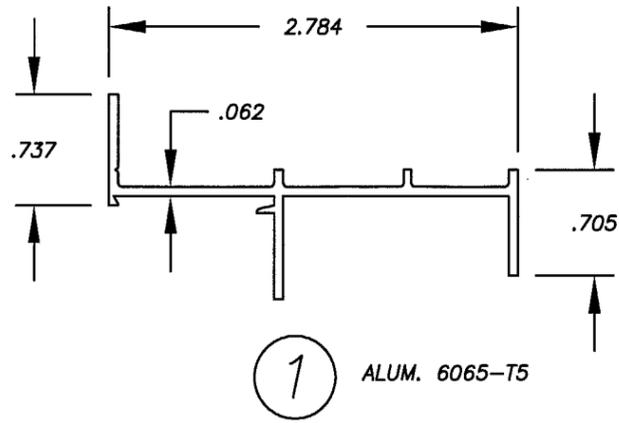
*Robert Clark*  
3/9/01  
ROBERT CLARK  
#39712



1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275	P.O. BOX 1529 NOKOMIS, FL 34274	Series/Model: SH-701	Scale: NTS	Sheet: 2 of 7	Drawing No. 4032	Rev: C
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Revsd By: F.K.	Date: 1/4/01	Chkd By:	Date:	Revisions:
Drawn By: R.S.	Date: 11/22/96			

Description:  
**CROSS SECTIONS**  
Title:  
**ALUMINUM SINGLE HUNG WINDOWS**



APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE APR 12 2001  
BY *Manuel Ruiz*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 01-0109.01

*Robert Clark*  
3/9/01  
ROBERT CLARK  
#39712



Revsd By: F.K.	Date: 1/4/01	Chkd By:	Date:	Revisions:
Drawn By: D.B.	Date: 1/21/97			
Description: EXTRUSIONS				
Title: ALUMINUM SINGLE HUNG WINDOWS				
1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275	P.O. BOX 1529 NOKOMIS, FL 34274	Series/Model: SH-701	Scale: NTS	Sheet: 3 of 7
			Drawing No. 4032	Rev: C

**COMPARATIVE ANALYSIS FOR 3/16" ANNEALED GLASS**

**NOTE: Numbers in ( ) parentheses are quantity of anchors per side.**

**Negative Design Loads based on Comparative Analysis and Glass Table ASTM E1300.**

**Positive Design Loads based on Comparative Analysis and Water Test Pressure.**

Window Heights	Window Widths																	
	19.125 (4)	24.000 (4)	26.500 (6)	32.000 (6)	37.000 (6)	40.000 (8)	44.000 (8)	48.000 (8)	53.125 (8)									
26.000 (12)	-135.00	69.33	-135.00	69.33	-135.00	69.33	-135.00	69.33	-135.00	69.33	-135.00	69.33	-123.69	69.33	-111.77	69.33	-99.48	69.33
38.375 (12)	-135.00	69.33	-135.00	69.33	-135.00	69.33	-135.00	69.33	-114.67	69.33	-103.35	69.33	-91.34	69.33	-81.83	69.33	-72.19	69.33
50.625 (12)	-111.46	69.33	-105.08	69.33	-104.80	69.33	-104.80	69.33	-97.86	69.33	-87.12	69.33	-76.00	69.33	-67.40	67.40	-58.86	58.86
63.000 (16)	-80.02	69.33	-71.74	69.33	-69.42	69.33	-67.67	67.67	-67.67	67.67	-67.67	67.67	-67.67	67.67	-59.36	59.36	-51.22	51.22
76.000 (16)	-61.73	61.73	-53.80	53.80	-51.19	51.19	-47.69	47.69	-46.53	46.53	-46.50	46.50	-46.50	46.50	-46.50	46.50	-46.50	46.50

Numbers above for #10 screws or 3/16" Tapcons.

**NOTE: 2 anchors 4" apart, 4" from each side of meeting rail are required. (Total of 4 anchors at each meeting rail)**

**NOTE: Anchors 6" from each corner as follows:**

Max. spacing at head & sill = 14.000

Max. spacing at jambs = 14.000

**COMPARATIVE ANALYSIS FOR 3/16" ANNEALED GLASS**

**NOTE: Numbers in ( ) parentheses are quantity of anchors per side.**

**Negative Design Loads based on Comparative Analysis and Glass Table ASTM E1300.**

**Positive Design Loads based on Comparative Analysis and Water Test Pressure.**

Window Heights	Window Widths																	
	19.125 (4)	24.000 (4)	26.500 (6)	32.000 (6)	37.000 (6)	40.000 (8)	44.000 (8)	48.000 (8)	53.125 (8)									
26.000 (8)	-135.00	69.33	-135.00	69.33	-135.00	69.33	-135.00	69.33	-135.00	69.33	-135.00	69.33	-123.69	69.33	-111.77	69.33	-99.48	69.33
38.375 (8)	-135.00	69.33	-135.00	69.33	-135.00	69.33	-135.00	69.33	-114.67	69.33	-103.35	69.33	-91.34	69.33	-81.83	69.33	-72.19	69.33
50.625 (8)	-111.46	69.33	-105.08	69.33	-104.80	69.33	-104.80	69.33	-97.86	69.33	-87.12	69.33	-76.00	69.33	-67.40	67.40	-58.86	58.86
63.000 (8)	-80.02	69.33	-71.74	69.33	-69.42	69.33	-67.67	67.67	-67.67	67.67	-67.67	67.67	-67.67	67.67	-59.36	59.36	-51.22	51.22
76.000 (12)	-61.73	61.73	-53.80	53.80	-51.19	51.19	-47.69	47.69	-46.53	46.53	-46.50	46.50	-46.50	46.50	-46.50	46.50	-46.50	46.50

Numbers above for #12 screws or 1/4" Tapcons.

**NOTE: 1 anchor 4.000" on each side of meeting rail are required. (Total of 2 anchors at each meeting rail)**

**NOTE: Anchors 6" from each corner as follows:**

Max. spacing at head & sill = 14.000

Max. spacing at jambs = 14.000

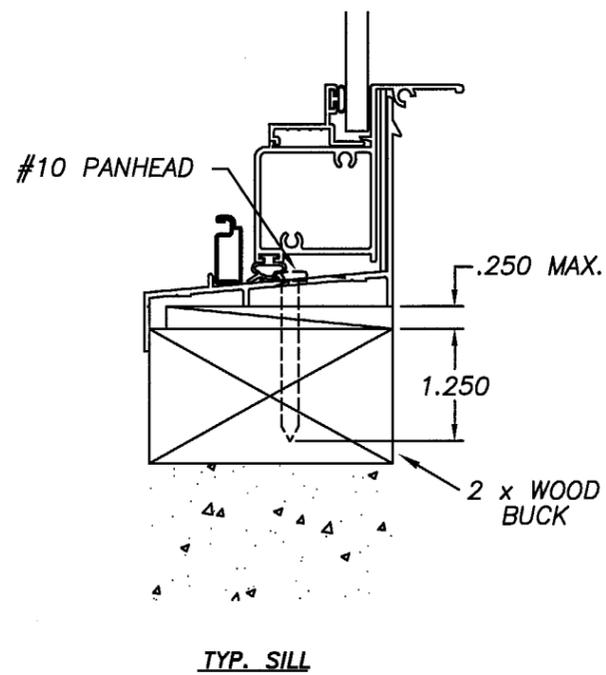
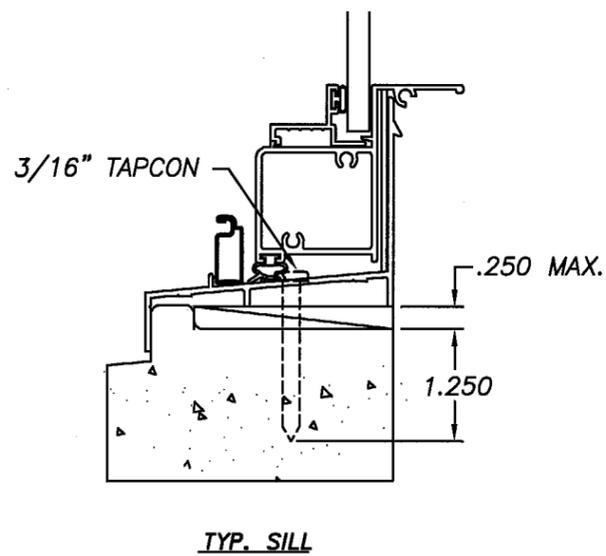
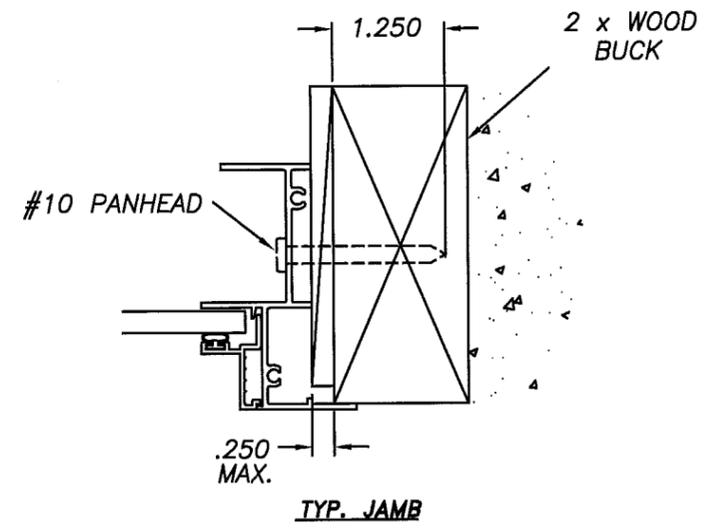
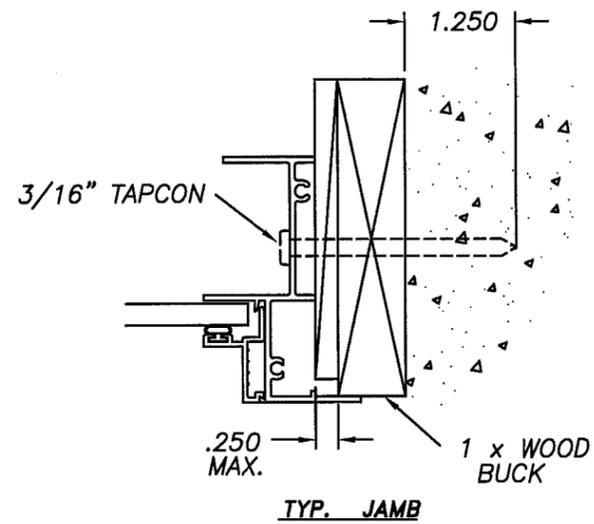
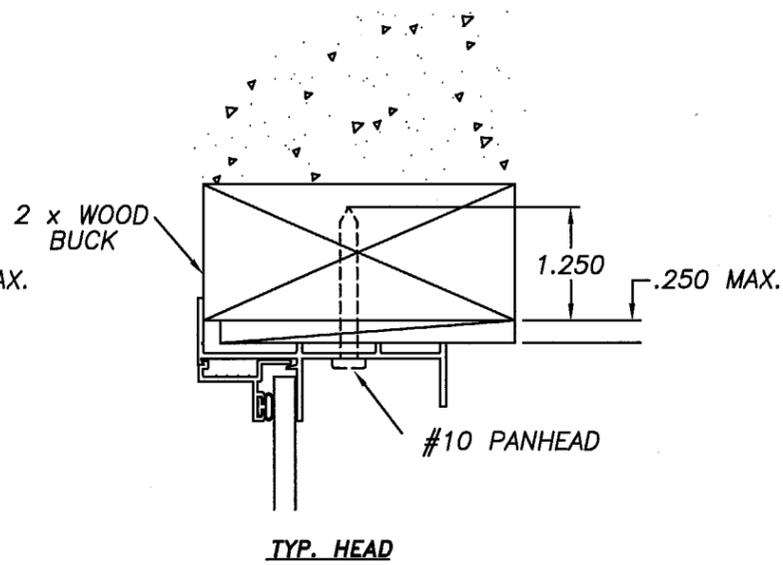
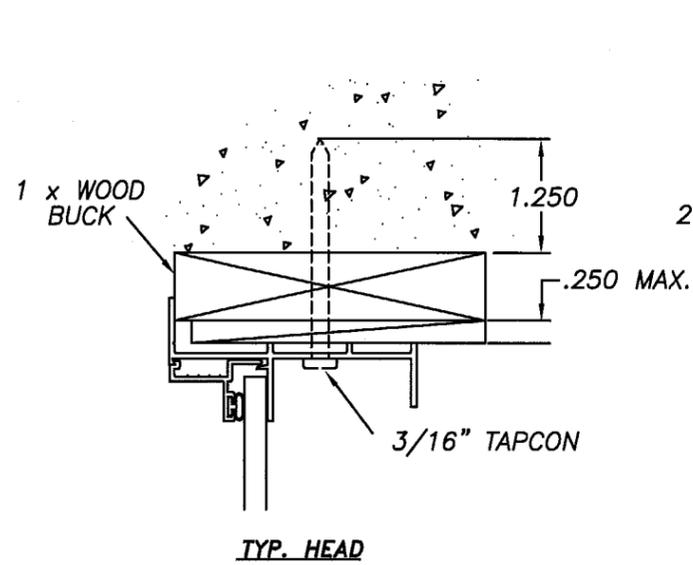
APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE APR 12 2001  
BY M. J. Perez  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 01-0109.01

REFERENCE TEST REPORT: FTL 1536

*Robert L. Clark*  
Robert L. Clark, P.E.  
P.E. #39712  
Structural



Revsd By: F.K.	Date: 1/4/01	Chkd By:	Date:	Revisions:
Drawn By: D.B.	Date: 2/24/97			
Description: COMPARATIVE ANALYSIS - 76" HIGH "OX"				
Title: ALUMINUM SINGLE HUNG WINDOWS				
1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275	P.O. BOX 1529 NOKOMIS, FL 34274	Series/Model: SH-701	Scale: NTS	Sheet: 4 of 7
			Drawing No. 4032	Rev: C

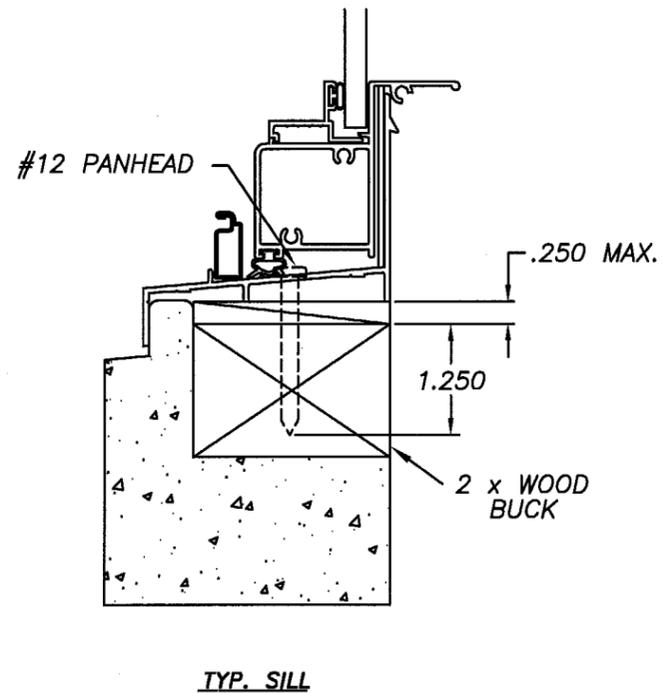
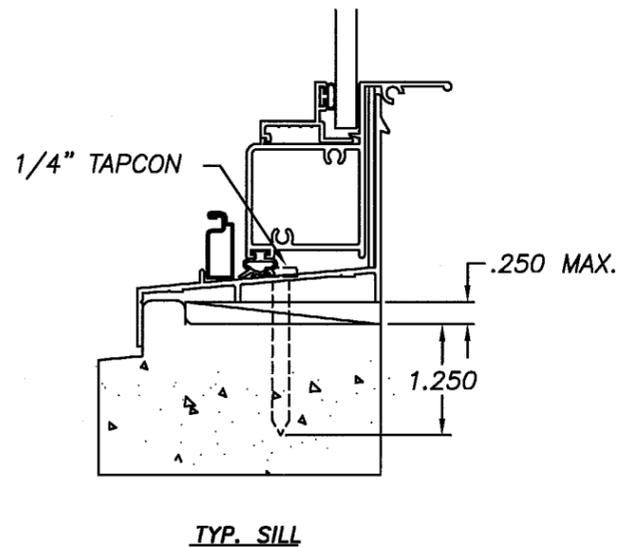
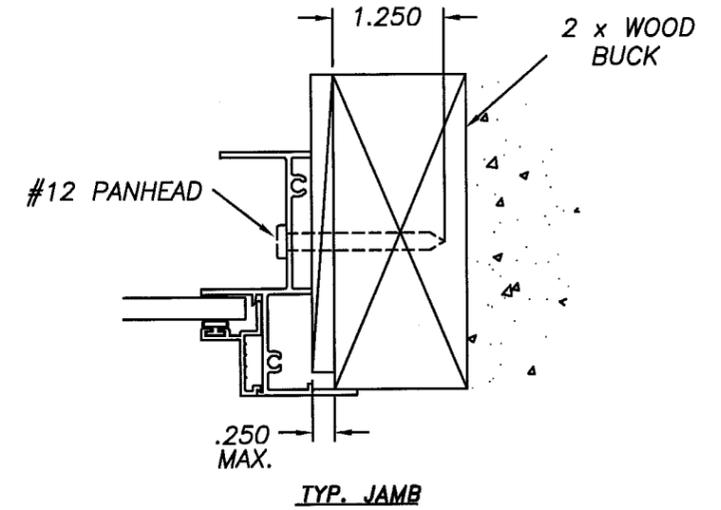
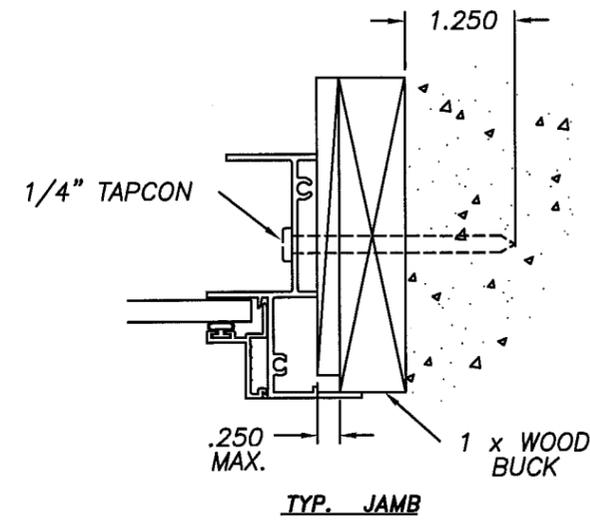
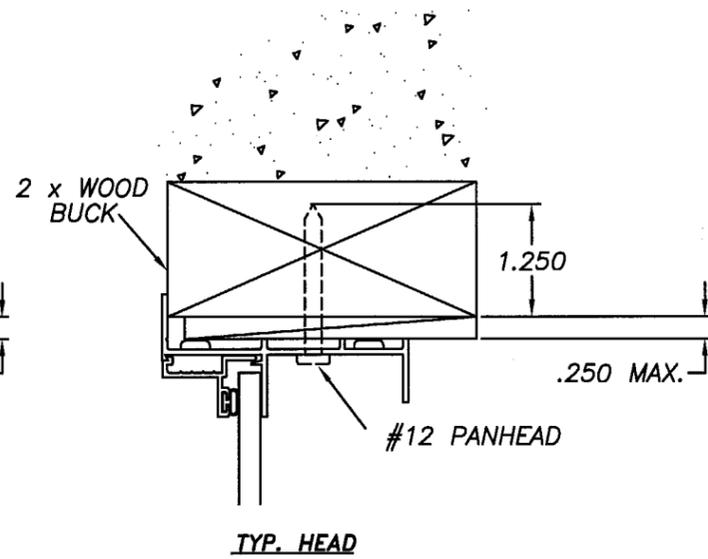
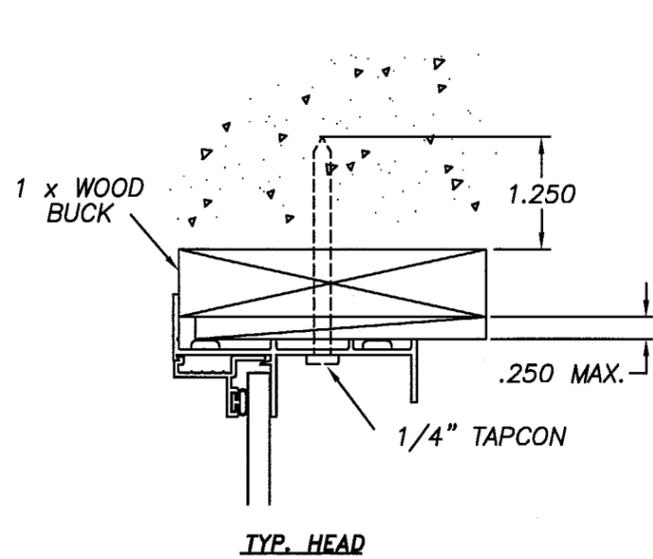


APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE **APR 12 2001**  
BY *Manuel Cruz*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 01-0109.01

*Robert L. Clark*  
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Revised By: F.K.	Date: 1/4/01	Chkd By:	Date:	Revisions:
Drawn By: R.S.	Date: 2/19/97			
Description: TYPICAL SINGLE HUNG ANCHORAGE (3/16" TAPCON /OR #10 PANHEAD)				
Title: ALUMINUM SINGLE HUNG WINDOWS				
1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275	P.O. BOX 1529 NOKOMIS, FL 34274	Series/Model: SH-701	Scale: NTS	Sheet: 5 of 7
			Drawing No. 4032	Rev: C



APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE APR 12 2001  
BY M. [Signature]  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 01-0109.01

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Structural



1070 TECHNOLOGY DRIVE  
NOKOMIS, FL 34275

P.O. BOX 1529  
NOKOMIS, FL 34274

Revsd By: F.K.	Date: 1/4/01	Chkd By:	Date:	Revisions:
Drawn By: R.S.	Date: 11/27/96			
Description:		TYPICAL SINGLE HUNG ANCHORAGE (1/4" TAPCON /OR #12 PANHEAD)		
Title: ALUMINUM SINGLE HUNG WINDOWS				
Series/Model: SH-701	Scale: NTS	Sheet: 6 of 7	Drawing No. 4032	Rev: C

**COMPARATIVE ANALYSIS FOR 1/4" TEMPERED GLASS**

**NOTE: Numbers in ( ) parentheses are quantity of anchors per side.**

**Negative Design Loads based on Comparative Analysis and Glass Table ASTM E1300.**

**Positive Design Loads based on Comparative Analysis and Water Test Pressure.**

Window Heights	Window Widths																			
	19.125 (4)	24.000 (4)	26.500 (6)	32.000 (6)	37.000 (6)	40.000 (8)	44.000 (8)	48.000 (8)	53.125 (8)	19.125 (4)	24.000 (4)	26.500 (6)	32.000 (6)	37.000 (6)	40.000 (8)	44.000 (8)	48.000 (8)	53.125 (8)		
26.000 (12)	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30
38.375 (12)	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-176.78	69.30	-158.37	69.30	-139.73	69.30
50.625 (12)	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-168.62	69.30	-147.10	69.30	-130.45	69.30
63.000 (16)	-154.88	69.30	-138.85	69.30	-134.36	69.30	-130.98	69.30	-130.98	69.30	-130.98	69.30	-130.98	69.30	-130.98	69.30	-114.88	69.30	-99.13	69.30
76.000 (16)	-119.48	69.30	-104.13	69.30	-99.07	69.30	-92.30	69.30	-90.06	69.30	-90.00	69.30	-90.00	69.30	-90.00	69.30	-90.00	69.30	-90.00	69.30

Numbers above for #10 screws or 3/16" Tapcons.

**NOTE: 2 anchors 4" apart, 4" from each side of meeting rail are required. (Total of 4 anchors at each meeting rail)**

**NOTE: Anchors 6" from each corner as follows:**

Max. spacing at head & sill = 14.000

Max. spacing at jambs = 14.000

**COMPARATIVE ANALYSIS FOR 1/4" TEMPERED GLASS**

**NOTE: Numbers in ( ) parentheses are quantity of anchors per side.**

**Negative Design Loads based on Comparative Analysis and Glass Table ASTM E1300.**

**Positive Design Loads based on Comparative Analysis and Water Test Pressure.**

Window Heights	Window Widths																			
	19.125 (4)	24.000 (4)	26.500 (6)	32.000 (6)	37.000 (6)	40.000 (8)	44.000 (8)	48.000 (8)	53.125 (8)	19.125 (4)	24.000 (4)	26.500 (6)	32.000 (6)	37.000 (6)	40.000 (8)	44.000 (8)	48.000 (8)	53.125 (8)		
26.000 (8)	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30
38.375 (8)	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-176.78	69.30	-158.37	69.30	-139.73	69.30
50.625 (8)	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-180.00	69.30	-168.62	69.30	-147.10	69.30	-130.45	69.30
63.000 (8)	-154.88	69.30	-138.85	69.30	-134.36	69.30	-130.98	69.30	-130.98	69.30	-130.98	69.30	-130.98	69.30	-130.98	69.30	-114.88	69.30	-99.13	69.30
76.000 (12)	-119.48	69.30	-104.13	69.30	-99.07	69.30	-92.30	69.30	-90.06	69.30	-90.00	69.30	-90.00	69.30	-90.00	69.30	-90.00	69.30	-90.00	69.30

Numbers above for #12 screws or 1/4" Tapcons.

**NOTE: 1 anchor 4.000" on each side of meeting rail are required. (Total of 2 anchors at each meeting rail)**

**NOTE: Anchors 6" from each corner as follows:**

Max. spacing at head & sill = 14.000

Max. spacing at jambs = 14.000

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BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 01-0109.01

REFERENCE TEST REPORT: FTL 1533

*Robert L. Clark*  
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Structural



Revised By: F.K.	Date: 1/4/01	Chkd By:	Date:	Revisions:
Drawn By: R.S.	Date: 11/27/97			
Description: COMPARATIVE ANALYSIS - 76" HIGH "OX"				
Title: ALUMINUM SINGLE HUNG WINDOWS				
1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275	P.O. BOX 1529 NOKOMIS, FL 34274	Series/Model: SH-701	Scale: NTS	Sheet: 7 of 7
			Drawing No. 4032	Rev: C