



**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**

**NOTICE OF ACCEPTANCE (NOA)**

**StormProof  
8500 NW 64 Street  
Miami, FL 33166**

**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-400 Aluminum Double & Single” Casement Window-N.I.**

**APPROVAL DOCUMENT:** Drawing No.04-003, titled “Series 400 Double & Single Casement Non Impact”, sheets 1 through 5 of 5, prepared by Tilteco Inc., dated 01/08/04, with revision “1” dated 1/27/04, signed and sealed by Walter A. Tillit Jr., 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**

**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 and evidence page E-1 and E2, as well as approval document mentioned above. The submitted documentation was reviewed by **Theodore Berman, P.E.**

*TMB*  
2/20/2004

**NOA No 04-0116.01  
Expiration Date: March 11, 2009  
Approval Date: March 11, 2004  
Page 1**

**StormProof**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No.04-003, titled "Series 400 Double & Single Casement Non Impact", sheets 1 through 5 of 5, prepared by Tilteco Inc., dated 01/08/04, with revision "1" dated 1/27/04, signed and sealed by Walter A. Tillit Jr., P.E.

**B. TESTS**

1. 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) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
5) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94  
along with marked-up drawings and installation diagram of a casement window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-96-1075**, dated 04/14/03, signed and sealed by Rafael E. Droz-Seda, P.E.
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94 along with marked-up drawings and installation diagram of a casement window, prepared by American Test Lab of South Florida., Test Report No. **ATL-0708.04-03**, dated 12/18/03, signed and sealed by William R. Mehner, P.E.

**C. CALCULATIONS**

1. Anchor Calculations, ASTM-E1300-98, and structural analysis, dated 01/28/04 prepared by Tilteco Inc., signed and sealed by Walter A. Tillit Jr., P.E.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None



Theodore Berman, P.E.  
Deputy Director, Product Control Division  
NOA No 04-0116.01  
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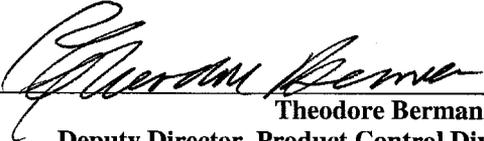
**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS**

1. Statement letter of conformance, dated January 09, 2004, signed and sealed by Walter A. Tillit Jr., P.E.
2. Statement letter of no financial interest dated January 09, 2004, signed and sealed by Walter A. Tillit Jr., P.E.

**G. OTHER**

1. Letter from the consultant stating that the product is in compliance with the Florida Building Code (FBC)



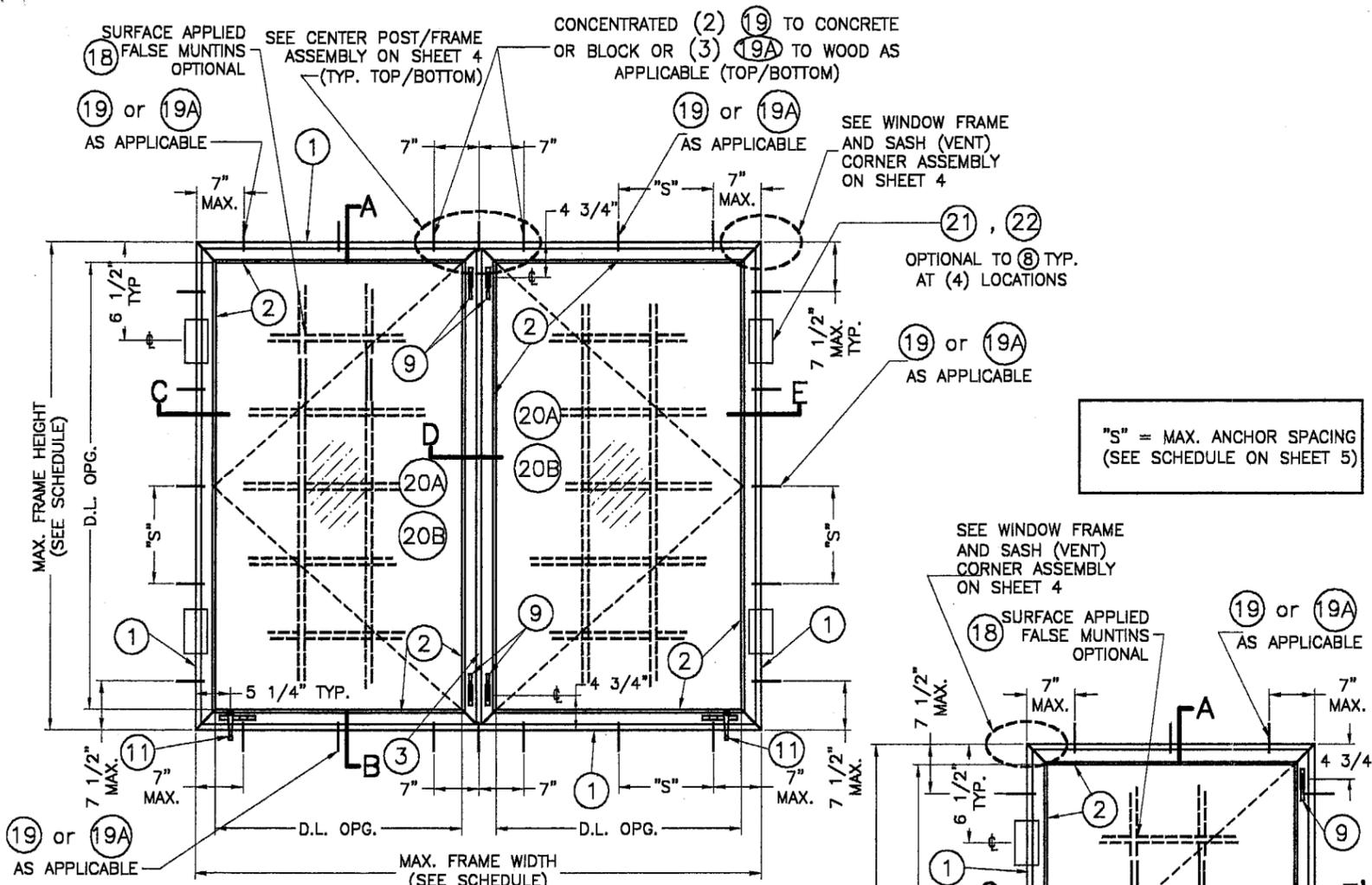
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**Theodore Berman, P.E.**  
**Deputy Director, Product Control Division**

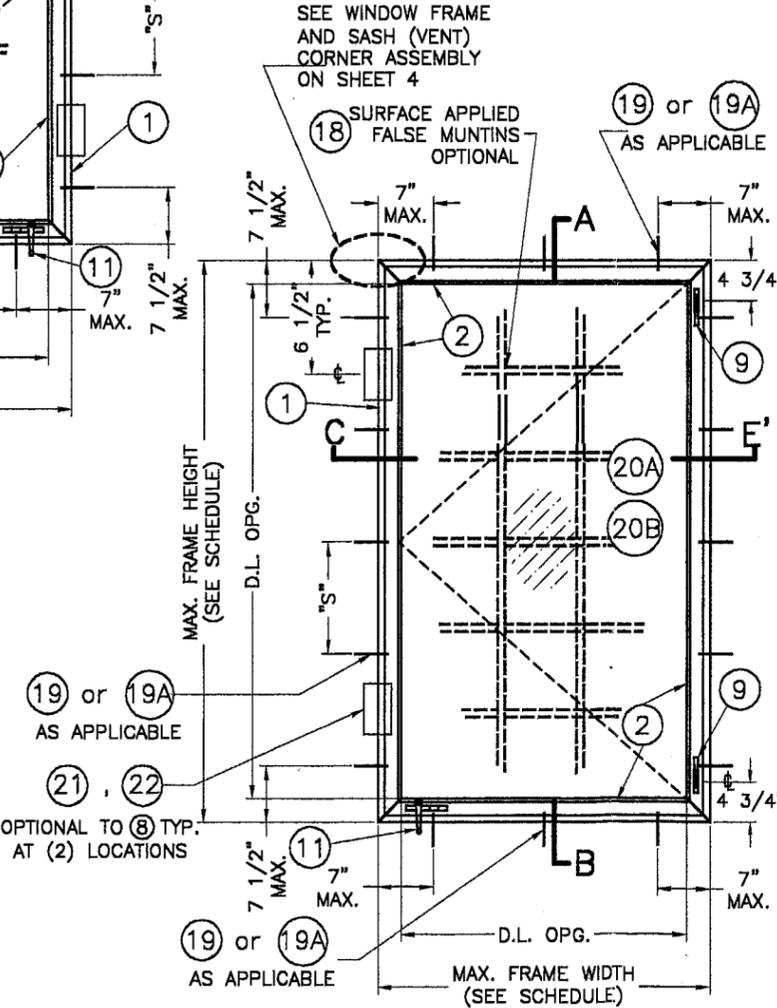
**NOA No 04-0116.01**

**Expiration Date: March 11, 2009**

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**SERIES 400 DOUBLE CASEMENT WINDOW-NON IMPACT RESISTANT (INTERIOR ELEVATION)**  
NTS.



**SERIES 400 SINGLE CASEMENT WINDOW-NON IMPACT RESISTANT (INTERIOR ELEVATION)**  
NTS.

**GENERAL NOTES AND SPECIFICATIONS:**

- SERIES 400 DOUBLE & SINGLE CASEMENT NON IMPACT WINDOW, SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P. A. D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2001 EDITION OF THE FLORIDA BUILDING CODE. WINDOW MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1619 OF THE ABOVE MENTIONED CODE. IN ORDER TO VERIFY THAT ANCHORS ON THIS P.A.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS **NOT** USED IN THEIR ANALYSIS. THIS WINDOW'S ADEQUACY FOR WIND LOADS RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1706 OF THE ABOVE MENTIONED CODE AS PER TAS-202 AS PER LAB REPORTS # HETI 03-1791, HETI 96-1075 & ATL 0708.04-03 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION 1811 OF THE FLORIDA BUILDING CODE.
- ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY AND TEMPER (UNLESS OTHERWISE NOTED), WITH  $F_y = 25.0$  ksi MINIMUM. THE THICKNESS OF ALL EXTRUSIONS SHALL BE AS SHOWN ON THIS DRAWING.
- ALL SCREWS USED FOR ASSEMBLY CONNECTIONS (METAL TO METAL) TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 WITH 50 ksi YIELD POINT AND 90 ksi TENSILE STRENGTH.
- WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE. WOOD BUCKS MUST BE SOUTHERN PINE,  $G = 0.55$ . WOOD BUCKS NOT BY STORMPROOF, MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.
- ANCHORS NOTES: ANCHORS TO WALL SHALL BE AS FOLLOWS:  
(A) TO EXISTING POURED CONCRETE: (Min.  $f'_c = 3$  ksi)  
-  $1/4"$  TAPCON ANCHORS W/  $1 1/4"$  Min. EMBEDMENT, AS MANUFACTURED BY I.T.W. BUILDDEX OR ELCO TEXTRON (COMPONENT 19), THRU  $1"$  P.T. WOOD BUCK.  
(B) TO EXISTING CONCRETE BLOCK WALL:  
-  $1/4"$  TAPCON ANCHORS W/  $1 1/4"$  Min. EMBEDMENT, AS MANUFACTURED BY I.T.W. BUILDDEX OR ELCO TEXTRON (COMPONENT 19), THRU  $1"$  P.T. WOOD BUCK.  
(C) TO EXISTING  $2"$  P.T. WOOD BUCK:  
- #14 FH WOOD SCREWS (NON CORROSIVE) W/  $1 1/2"$  MIN EMBEDMENT (COMPONENT 19A)
- PROVIDE  $1/4"$  MAX. SHIM SPACE (TYP.).
- THIS WINDOW WILL REQUIRE A HURRICANE PROTECTION DEVICE.**
- PROVIDE SCHNEE MOREHEAD SEAM SEALER SM5504 SEALANT (TYP.) AT ALL FRAME AND SASH (VENT) JOINTS.
- REMAINING COMPONENTS FOR THIS WINDOW'S SYSTEM SHALL BE AS INDICATED ON BILL OF MATERIALS, SHEET 3 OF THIS DRAWING.
- WINDOW'S MANUFACTURER STAMP SHALL BE PLACED ON THE EXPOSED SURFACE OF PROFILES 1 OR 2. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABEL SHALL READ AS FOLLOWS:  
STORMPROOF  
MIAMI, FLORIDA.  
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.
- (a) THIS P.A.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.A.D.  
(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.A.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.  
(c) THIS P.A.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.  
(d) THIS P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

**TILECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
6595 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FL 33166  
Phone: (305)871-1530 • Fax: (305)871-1531  
EB-0006719  
WALTER A. TILLIT, Jr., P. E.  
FLORIDA Lic. # 44167

**SERIES 400 DOUBLE & SINGLE CASEMENT NON IMPACT WINDOW**

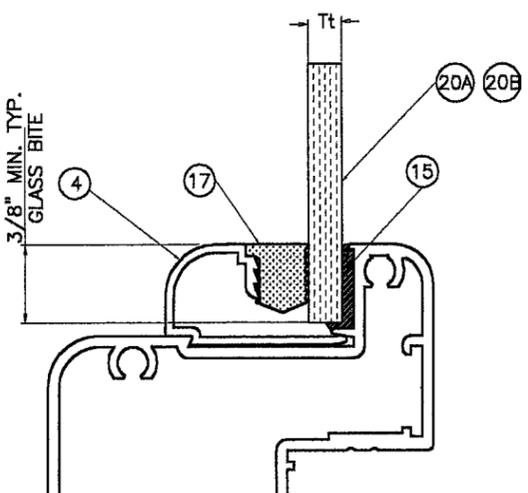
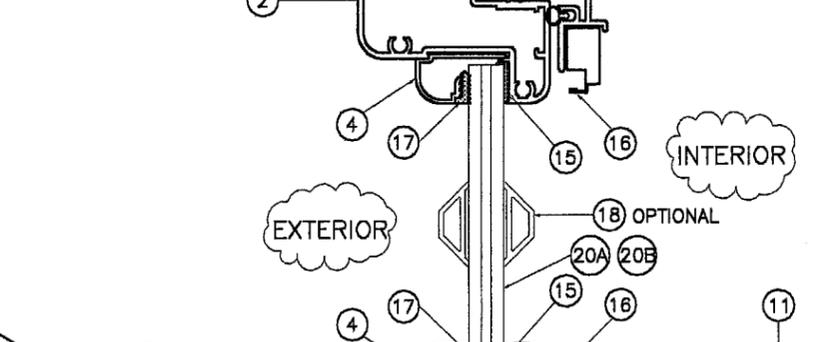
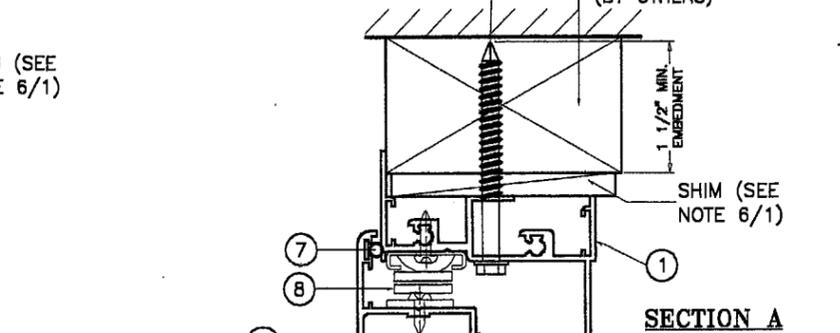
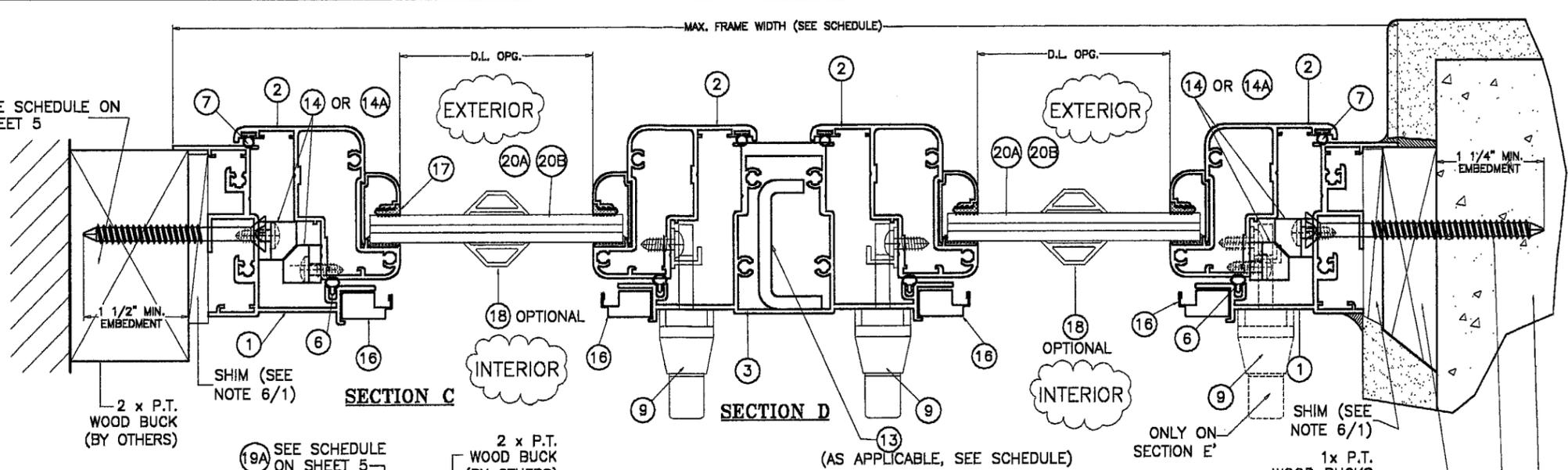
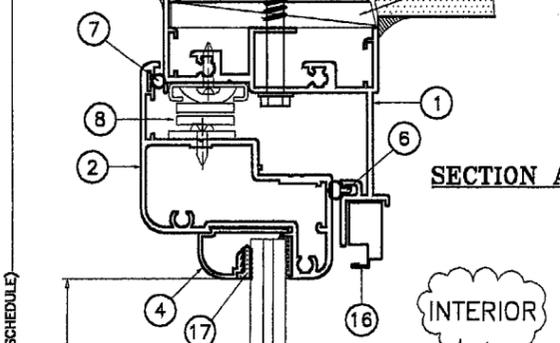
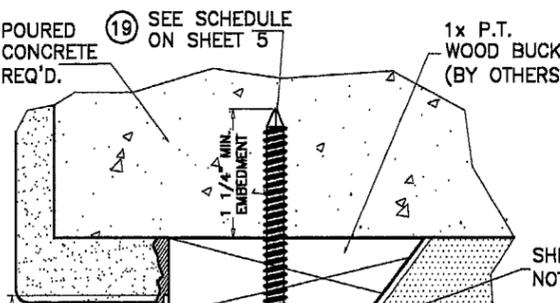
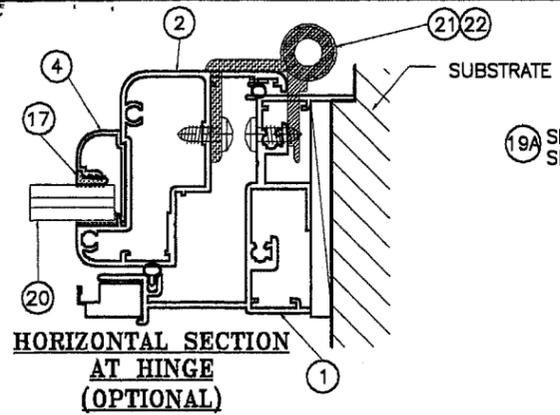
**STORMPROOF®**  
8500 N. W. 64 ST. MIAMI, FL. 33166  
TEL. (305) 418-8787  
FAX. (305) 418-8700  
www.stormproof.us

NO.	DATE	GENERAL	REVISION
1	1/27/04		

DATE: 01-08-04  
SCALE: AS SHOWN  
DWG. BY:  
CHK. BY:  
DWG. No.: 04-003  
SHEET 1 OF 5

*James Berman*  
1/28/04

Approved as complying with the Florida Building Code  
Date 03/11/04  
NOA# 04-0116.01  
Miami Dade Product Control  
Div#  
By *James Berman*



GLASS TYPE	Tt GLASS (NOMINAL)	DESCRIPTION
20A	3/16"	HEAT STRENGTHENED GLASS
20B	3/16"	TEMPERED GLASS

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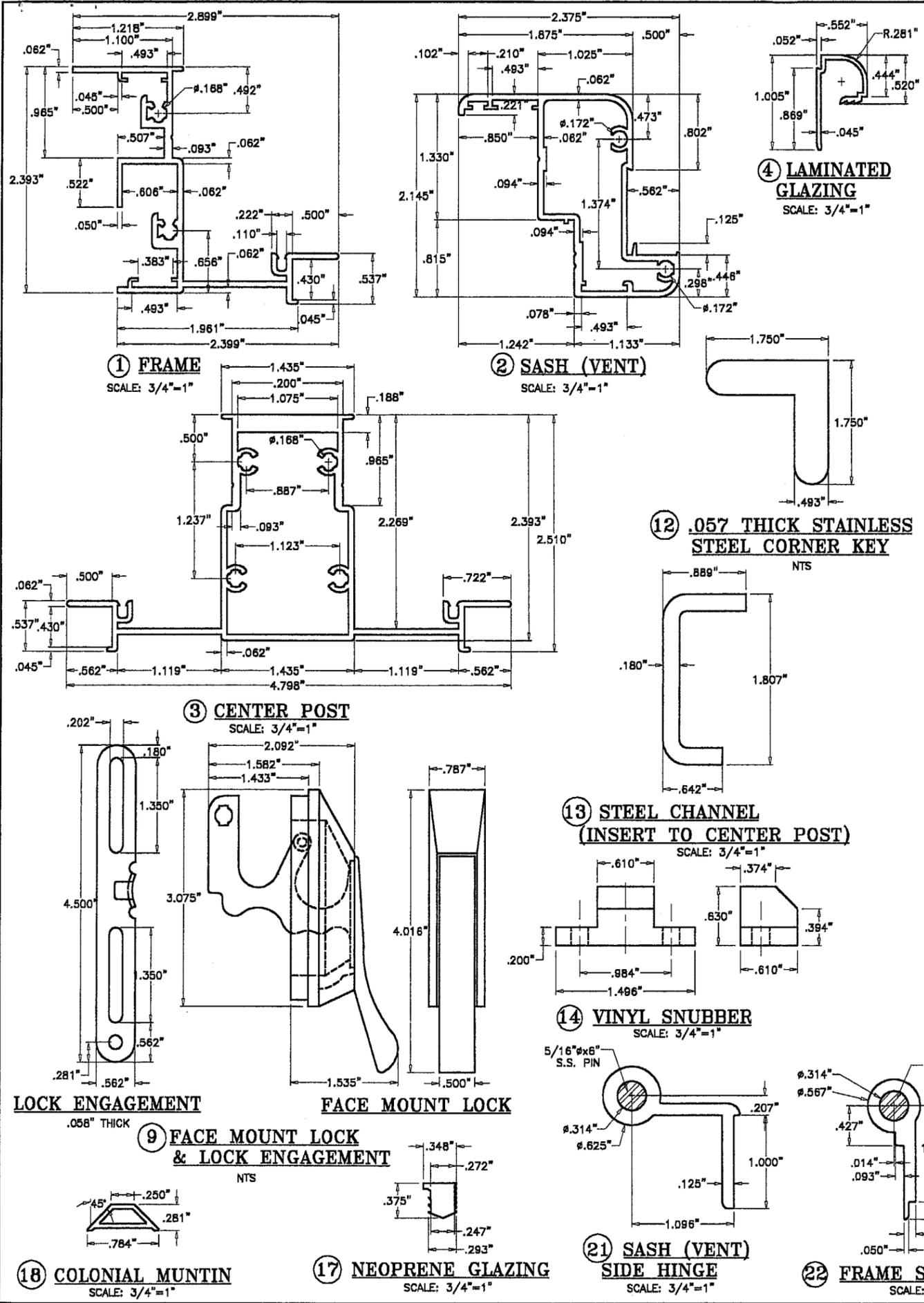
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Miami Dade Product Control  
By: *[Signature]*  
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DWG. BY:  
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DWG. No.: 04-003  
SHEET 2 OF 5



BILL OF MATERIALS						
ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS	
①	SP-401	4	FRAME	6063-T5	-	
②	SP-402	4	SASH (VENT)	6063-T5	-	
③	SP-403	1	CENTER POST	6063-T6	-	
④	-	AS REQD.	LAMINATED GLAZING	6063-T5	-	
⑤	-	AS REQD.	FRAME ASSEMBLY SCREWS	-	#10 x 1" F.H. S.S. S.M.S.	
⑤A	-	AS REQD.	SASH VENT ASSEMBLY SCREWS	-	#10 x 2 1/2" F.H. S.S. S.M.S.	
⑥	-	AS REQD.	FRAME WEATHERSTRIPPING	VINYL	-	
⑦	-	AS REQD.	VENT WEATHERSTRIPPING	VINYL	-	
⑧	-	2/ VENT	4 BAR HINGE, AT HEAD AND SILL EACH SASH	STEEL	TRUTH 3425 (4) BAR HINGE (4)#10x1/2" P.H. S.M.S. TO HEAD AND SILL & (3)#10x1/2" P.H. S.M.S. TO TOP & BOTTOM RAILS OF SASH (VENT).	
⑨	SP - 400	2/ S. VENT	FACE MOUNT LOCK & LOCK ENGAGEMENT	STEEL	SP 400 W/ (2)#10x1/2" P.H. S.M.S. TO ③ W/ LOCK ENGAGEMENT W/ (4)#10x1/2" P.H. S.M.S. TO STILE	
⑩	-	1	DYAD CRANK OPERATOR	STEEL	TRUTH, 5050 ATTACHED W/ (2)#8x3/8 S.S. S.M.S.	
⑪	SP-419	2/CORNER	.057 THICK CORNER KEY	S.S.	SAI 304 SERIES - CUSTOM BY STORMPROOF	
⑬	-	1	1.807"x0.889"x0.6415"x0.1795" STEEL CHANNEL REINF.	STEEL	ASTM A-36, G-60 GALVANIZED OR ZINC PLATED	
⑭	-	3	VINYL SNUBBER @ 2 PER HINGE STILE & @ 2 PER JAMB MATCHING HINGE STILE	POLY VINYL	BY MM PLASTIC. INSTALLED 5" FROM TOP & BOTTOM OF FRAME W/(2)#12x1/2" P.H. S.M.S.	
⑭A	-	2 FOR 74x63 8 FOR 74x74	METAL SNUBBER @ 2 PER HINGE STILE & @ 2 PER JAMB MATCHING HINGE STILE	STEEL	74x63 SIZE: INSTALLED 5" FROM TOP & BOTTOM OF FRAME W/(2)#12x1/2" P.H. S.M.S. 74x74 SIZE: (3) PER HINGE JAMB, (3) ON EACH SIDE OF ③, LOCATED AT 8.887" FROM HEADER TO CENTER OF SNUBBER, 30.750", 28". (3) PER VENT HINGE STILE, LOCATED AT 9.093" FROM VENT TOP RAIL TO CENTER OF SNUBBER, 30.750", 26". (1) AT SILL, LOCATED AT 1.500" FROM VERTICAL ③. (1) AT HEAD, LOCATED AT 1.825" FROM VERTICAL ③. EACH SNUBBER WAS FASTENED TO HINGE JAMB, CENTER POST, HINGE STILE, SILL AND HEADER WITH (2)#12x1/2" P.H. PHILLIPS S.M.S.	
⑮	-	AS REQD.	DOW CORNING	SILICONE	# 899 OR 1199	
⑯	-	AS REQD.	SCREEN	-	-	
⑰	-	AS REQD.	NEOPRENE GLAZING	VINYL	-	
⑱	-	AS REQD.	COLONIAL MUNTIN	6063-T6	-	
⑲	-	AS REQD.	1/4" # TAPCON ANCHORS (SEE NOTE 5A/1 & 5B/1)	STEEL	USE TO CONCRETE, OR CONCRETE BLOCK WALL, THRU 1/4" MAX. SHIM + 1 x PT. WOOD BUCK W/ 1 1/4" MIN. EMBEDMENT.	
⑲A	-	AS REQD.	#14 FH WOOD SCREWS (NON CORROSIVE) (SEE NOTE 6C/1)	STEEL	USE TO 2 x PT. WOOD BUCK (BY OTHERS), THRU 1/4" MAX. SHIM W/ 1 1/2" MIN. EMBEDMENT.	
⑳A	MIAMI-DADE COUNTY APPROVED GLASS	AS REQD.	HEAT STRENGTHENED GLASS	3/16" NOMINAL GLASS	-	
⑳B	MIAMI-DADE COUNTY APPROVED GLASS	AS REQD.	TEMPERED GLASS	3/16" NOMINAL GLASS	-	
㉑	408	1/HINGE	SASH (VENT) SIDE HINGE W/ 5/16"x6" AISI 309 SERIES S.S. PIN	ALUMINUM	6063-T5 (Fy = 16.0 ksi) W/ (2)#10x1" S.S. S.M.S. TO STILE ②, LOCATED 6 1/2" FROM TOP/BOTTOM	
㉒	409	2/HINGE	FRAME SIDE HINGE W/ 5/16"x6" AISI 309 SERIES S.S. PIN	ALUMINUM	6063-T5 (Fy = 16.0 ksi) W/ (2)#10x1" S.S. S.M.S. TO JAMB ①, LOCATED 6 1/2" FROM TOP/BOTTOM	

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**SERIES 400 DOUBLE & SINGLE CASEMENT NON IMPACT WINDOW**

NO.	DATE	GENERAL REVISION
1	1/27/04	

Approved as complying with the Florida Building Code  
Date 02-11-04  
NOA#04-0116.01  
Miami Dade Product Control Division  
By [Signature]

DATE: 01-08-04  
SCALE: AS SHOWN  
DWG. BY:  
CHK. BY:  
DWG. No.: 04-003  
SHEET 3 OF 5



## MAXIMUM DESIGN PRESSURE RATING VERSUS MAXIMUM SIZE VERSUS GLASS TYPE SCHEDULE

### DOUBLE CASEMENT WINDOW

DESIGN PRESSURE RATING (psf.)	MAX. FRAME WIDTH	MAX. FRAME HEIGHT	REQ'D GLASS TYPE	POST REINFORCEMENT ⑬ REQ'D
+65, -75	74"	63"	20A	NO
+57.5, -57.5	74"	74 1/4"	20B	YES

### SINGLE CASEMENT WINDOW

DESIGN PRESSURE RATING (psf.)	MAX. FRAME WIDTH	MAX. FRAME HEIGHT	REQ'D GLASS TYPE
+65, -75	37"	63"	20A
+100, -112	37"	63"	20B
+100, -112	37"	74 1/4"	20B

## MAXIMUM ANCHOR SPACING SCHEDULE

### DOUBLE CASEMENT WINDOW

MAX. ANCHOR SPACING SCHEDULE					
DESIGN LOAD (psf.)	LOCATION	ANCHOR TYPE	"S"		
			CONCRETE	BLOCK	WOOD
+65.0, -75.0	SILL & HEAD	19	11 1/2"	11 1/2"	-
		19A	-	-	11 1/2"
+100, -112	JAMBS	19	8"	8"	-
		19A	-	-	8"

*David*  
1/28/04

### SINGLE CASEMENT WINDOW

MAX. ANCHOR SPACING SCHEDULE					
DESIGN LOAD (psf.)	LOCATION	ANCHOR TYPE	"S"		
			CONCRETE	BLOCK	WOOD
+65.0, -75.0	SILL & HEAD	19	11 1/2"	11 1/2"	-
		19A	-	-	11 1/2"
	JAMBS	19	8"	8"	-
		19A	-	-	8"
+100, -112	SILL & HEAD	19	7 1/2"	7 1/2"	-
		19A	-	-	7 1/2"
	JAMBS	19	8"	8"	-
		19A	-	-	8"

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NOA# 04-0116.01  
Miami Dade Product Control  
By: *Walter A. Tillit Jr.*

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SHEET 5 OF 5