



**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)

**M.Q. Windows
1855 Griffin Road, Suite A-274
Dania, Fl 33004**

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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Series "S70/83 & S70/114" Outswing & Inswing Wood Casement Windows

APPROVAL DOCUMENT: Drawing No. MQF70-1W, titled "Series S70/83 Inswing Wood Casement Window", sheets 1 through 19 of 19, prepared by Walter A. Tillit, P.E., dated 7/28/98 with revision on 9/16/02, signed and sealed by Walter A. Tillit, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

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 **renews NOA # 97-1006.05** and, consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Manuel Perez, P.E.**



**NOA No 02-0129.08
Expiration Date: December 10, 2006
Approval Date: October 31, 2002
Page 1**

M.Q. Windows

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA)

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **MQF70-1W**, titled "Series S70/83 Inswing Wood Casement Window", sheets 1 through 19 of 19, prepared by Walter A. Tillit, P.E., dated 7/28/98 with revision on 9/16/02, signed and sealed by Walter A. Tillit, P.E.

B. TESTS

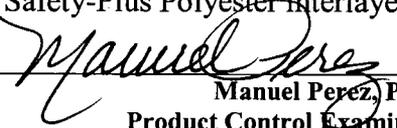
1. Test reports on
 - 1) Air Infiltration Test, per PA 202-94
 - 2) Uniform Static Air Pressure Test, Loading per PA 202-94
 - 3) Water Resistance Test, per PA 202-94
 - 4) Forced Entry Resistance, per ASTM F 588-85
 - 5) Large Missile Impact Test, SFBC PA 201-94
 - 6) Cyclic Loading Test, per SFBC PA 203-94along with installation diagram of an in-swing and out-swing wood door prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0118-1202-96**, dated from 01/15/97 to 03/25/97, signed and sealed by Timothy Marshall, 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) Forced Entry Resistance, per ASTM F 588-85
 - 5) Large Missile Impact Test, SFBC PA 201-94
 - 6) Cyclic Loading Test, per SFBC PA 203-94along with installation diagram of an in-swing and out-swing wood casement window, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0118-0516-97**, dated 05/21/97, 06/03/97 and 06/04/97, signed and sealed by Timothy Marshall, P.E.

C. CALCULATIONS

1. Engineering & Anchor Calculations, prepared by Tilteco, Inc. Testing & Engineering Co. dated 09/09/97, revised on 8/20/98, signed and sealed by Walter A. Tillit Jr., P.E.

D. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **96-0517.01**, issued to Monsanto Chemical Co. for "Laminated Glass with Saflex PVB Interlayer" dated 01-09-97, expiring on 01/09/00.
2. Notice of Acceptance No. **97-0527.04**, issued to Nebula Glass International Inc. for Glasslam "Safety-Plus" laminated glass with Safety-Plus Polyester interlayer, dated 09/09/97, expiring 09/09/00.


Manuel Perez, P.E.
Product Control Examiner
NOA No 02-0129.08
Expiration Date: December 10, 2006
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M.Q. Windows

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E. STATEMENTS

1. None

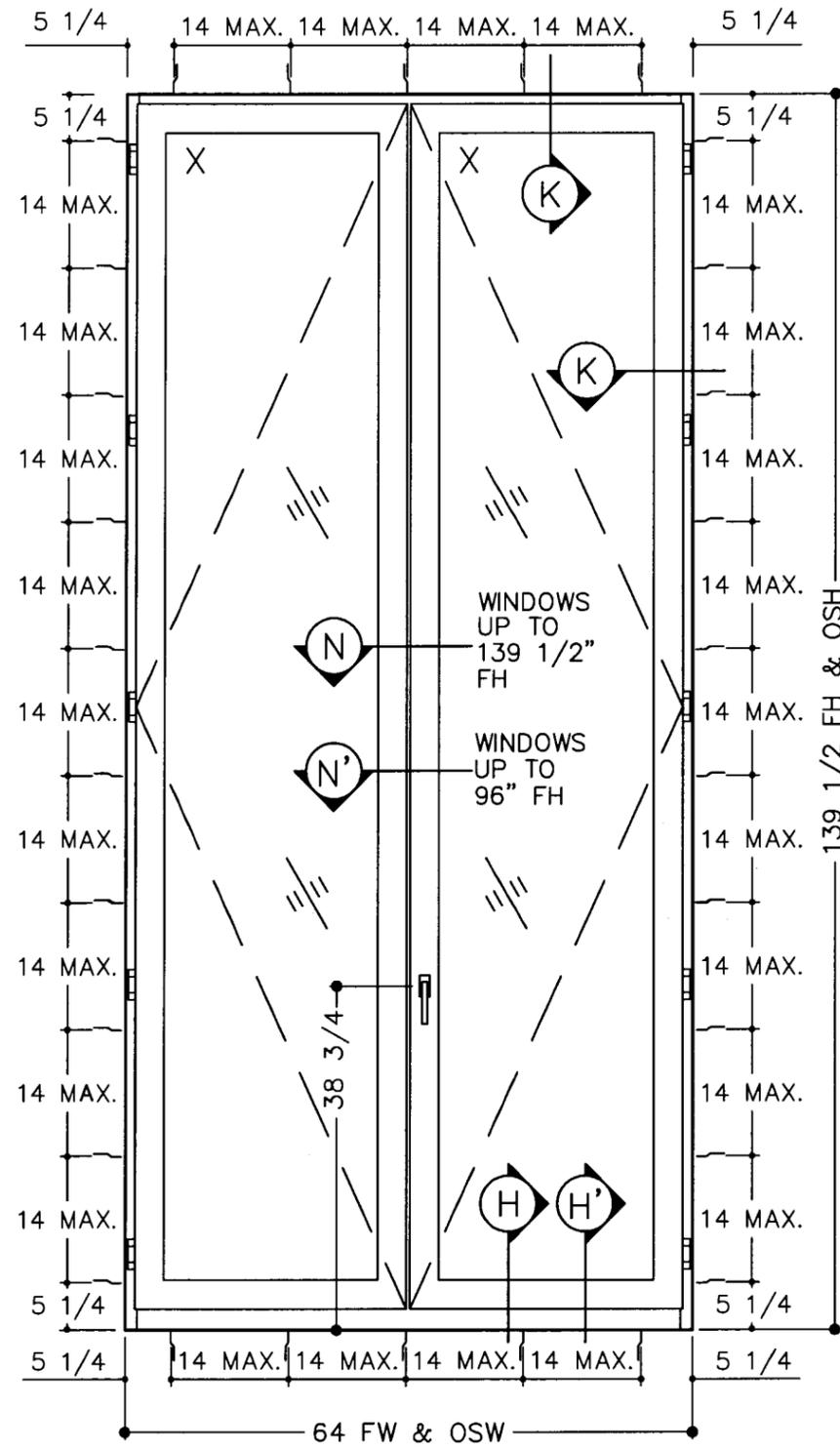
F. OTHER

1. Notice of Acceptance No. **97-1006.05**, issued to M.Q. Windows for their Series "S70/83" Outswing & Inswing Wood Casement Window, approved on 12/10/98 and expiring on 12/10/01.

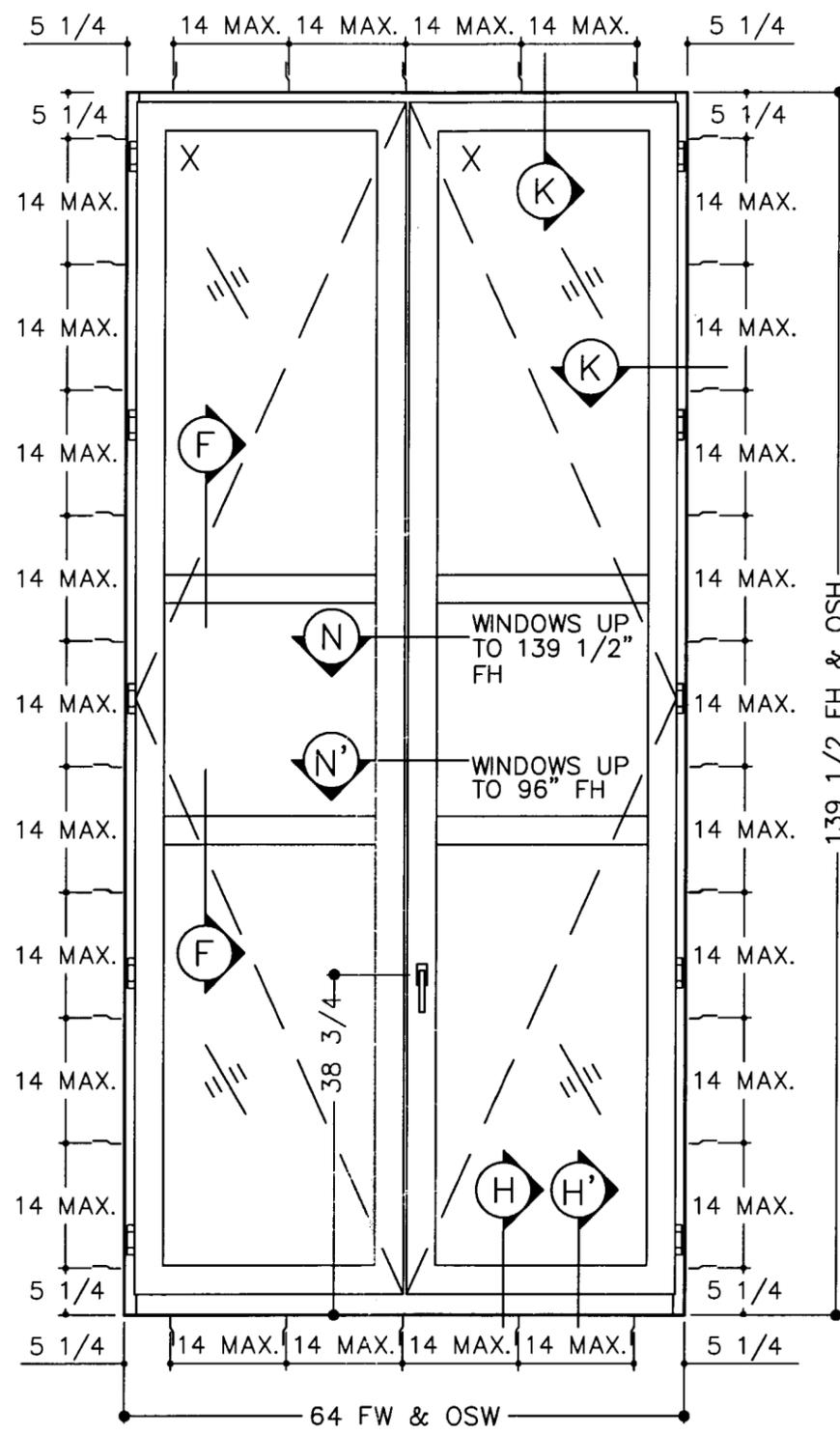


Manuel Perez, P.E.
Product Control Examiner
NOA No 02-0129.08

Expiration Date: December 10, 2006
Approval Date: October 31, 2002



VIEWED FROM THE INSIDE
CONFIGURATIONS:
 X, XX, O/XX, OXX, XXO, OX, XO
 WOOD: Mahogany



LEGEND:
 FW: FRAME SIZE, WIDTH
 FH: FRAME SIZE, HEIGHT
 OSW: OVERALL SIZE, WIDTH
 OSH: OVERALL SIZE, HEIGHT

DESIGN PRESSURE
 Acting Inward: +58 psf
 Acting Outward: -68 psf
 NOTE: All sizes noted are maximum sizes. Sizes smaller in width & height are permitted.

ANCHOR FASTENERS
 — Steel Bracket PDF-FS-05
 Screwed to the buck frame and to the door frame with #10 x 1-3/4 in. flat head screws. Min. embedment is 1-1/2\"/>

OPTIONAL: Directly screwed through the frame through the masonry with 1/4\" x 3\" Tapcon. Embedment is 1-1/2\" in.
 OR: Using the steel bracket PDF-FS-05 screwed to the frame with #10 x 1-3/4 screw & screwed to the masonry with 1/4\" x 2 1/2\" Tapcon screw. Min. embedment is 1-1/2\"

INSTALLATION FASTENERS:
 Spacing is 5-1/4 in. from corners and 14\" max o/c.
SHIM SPACE:
 1/4 IN. @ JAMBS, HEAD & SILL

HINGES SPACING

Two pins hinges # 2D-20 by Simonswerk GmbH secured with two #8 x 1-1/2\" screws

MATERIAL:
 BCS: Bichromated steel (open in)
 SS: Stainless steel (open out)

FRAME HEIGHT UP TO	QTY:	DIST. FROM CORNER	O/C MAX.
48 1/8"	2	6 1/8"	27"
69 1/8"	3	6 1/8"	27"
96 1/8"	4	6 1/8"	27"
139 1/2"	5	6 1/8"	30 3/8"

09/16/02	TYPE OF GLASS	MAX. PERI. [in.]	MAX. AREA [sq.ft.]
G2:	LAMINATED GLASS, Saflex .090 1/4 cl. an.+ 0.090 +1/4 cl. an.	312	23.0
WP:	1\"3/4 RAISED WOOD PANEL	151 1/8	8.83



1855 GRIFFIN ROAD, SUITE A-274
 DANIA, FL 33004

SERIES 70/83
INSWING
WOOD CASEMENT WINDOW
 METRO DADE COUNTY
 IMPACT RESISTANT
 PA201, PA202 & PA203

Drawing no.: MQF70-1W
 Scale: NONE
 Drawn by: S. Marcotte
 Date drawn: 07/28/98
 Date revised: 09/16/02
 File: Dade1in_1.dwg
 Page: 1/19

ENGINEER:
 STRUCTURALLY REVIEWED BY:

TILECO INC.
 TILLIT TESTING & ENGINEERING COMPANY
 6695 NW 30th STREET, STE. 217
 MIAMI, FLORIDA 33166
WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
 FL. LIC. NO. 43107
Walter Tillit Jr.
 9/19/02

PRODUCT RENEWED
 as complying with the Florida Building Code
 Acceptance No. 02-0129-DB
 Expiration Date DEC 10, 2006
 By *Manuel...*
 Miami Dade Product Control Division



1855 GRIFFIN ROAD, SUITE A-274
DANIA, FL 33004

**SERIES 70/83
INSWING
WOOD CASEMENT WINDOW**

METRO DADE COUNTY
IMPACT RESISTANT
PA201, PA202 & PA203

Drawing no.: MQF70-1W

Scale: NONE	Drawn by: S. Marcotte
Date drawn: 07/28/97	Date revised: 09/16/02
File: Dade1in_2.dwg	Page: 2/19

ENGINEER:

STRUCTURALLY REVIEWED BY:

TILECO INC.
TILLIT TESTING & ENGINEERING COMPANY
8595 NW 30th STREET, STE. 217
MIAMI, FLORIDA 33166
WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL LIC. NO. 44167

Walter A. Tillit Jr.
9/11/02

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 02-0129.08
Expiration Date DEC. 10, 2006
By *Manuel*
Miami Dade Product Control
Division

DESIGN PRESSURE
Acting Inward: +58 psf Acting Outward: -68 psf
NOTE: All sizes noted are maximum sizes. Sizes smaller in width & height are permitted.

ANCHOR FASTENERS
— Steel Bracket PDF-FS-05 Screwed to the buck frame and to the door frame with #10 x 1-3/4 in. flat head screws. Min. embedment is 1-1/2".
— Screwed through the door frame to the buck frame with #14 x 3 in. flat head screws. Min. embedment is 1-1/2 in.

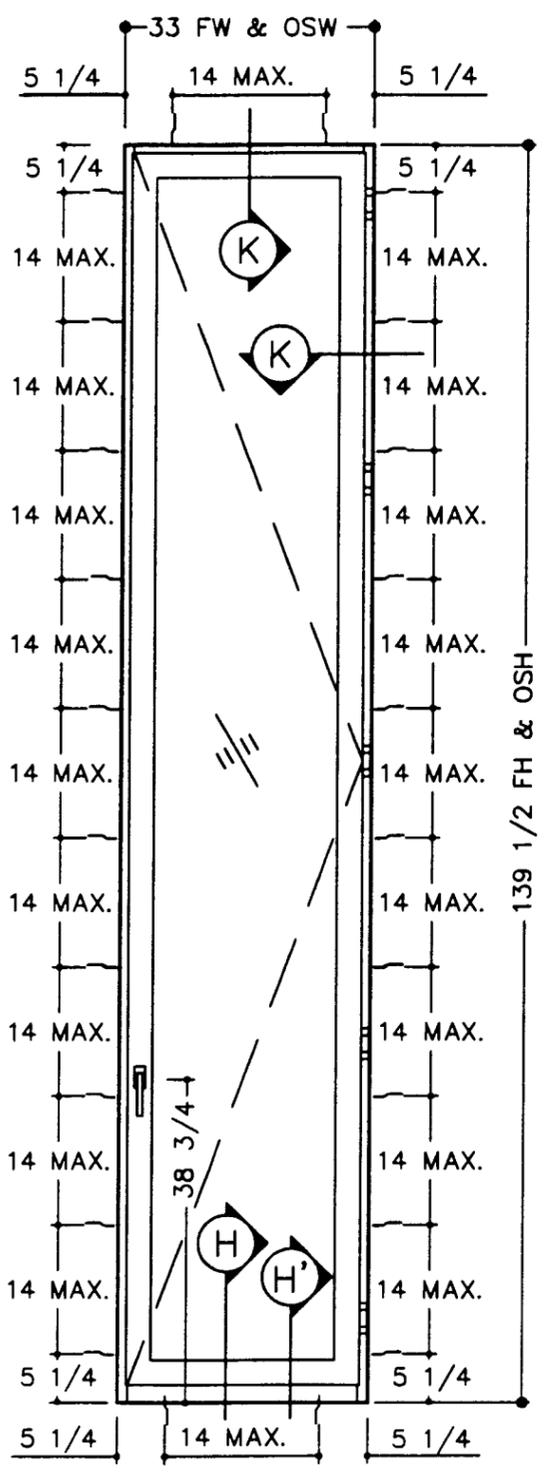
OPTIONAL: Directly screwed through the frame and through the masonry with 1/4" x 3" Tapcon. Embedment is 1-1/2 in.
OR: Using the steel bracket PDF-FS-05 screwed to the frame with #10 x 1-3/4 screw & screwed to the masonry with 1/4" x 2 1/2" Tapcon screw. Min. embedment is 1-1/2"

INSTALLATION FASTENERS:
Spacing is 5-1/4 in. from corners and 14" max o/c.

SHIM SPACE:
1/4 IN. @ JAMBS, HEAD & SILL

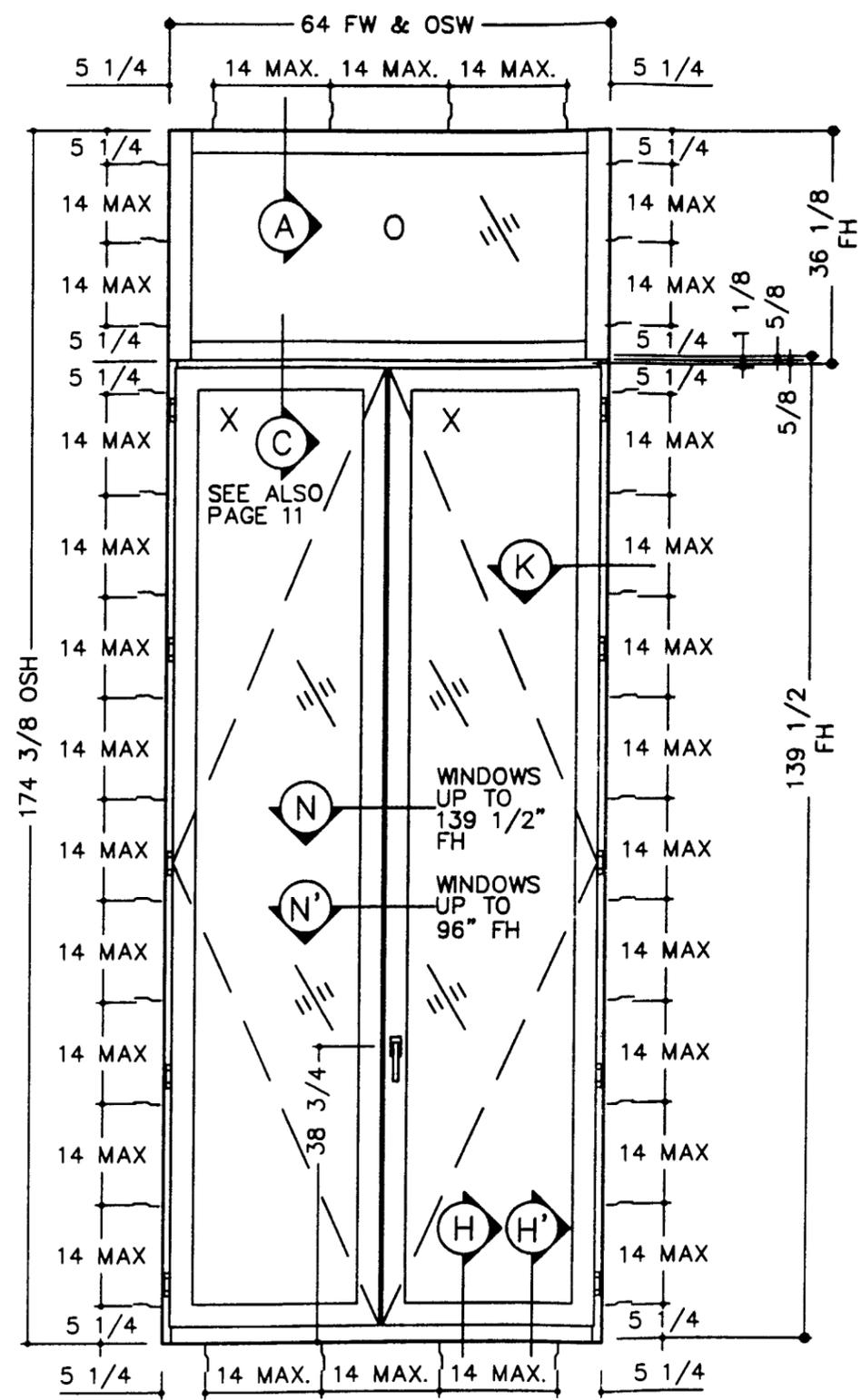
HINGES SPACING			
Two pins hinges # 2D-20 by Simonswerk GmbH secured with two #8 x 1-1/2" screws			
MATERIAL: BCS: Bichromated steel (open in) SS: Stainless steel (open out)			
FRAME HEIGHT UP TO	QTY:	DIST. FROM CORNER	O/C MAX.
48 1/8"	2	6 1/8"	27"
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09/16/02	TYPE OF GLASS	MAX. PERI. [in.]	MAX. AREA [sq.ft.]
	G2: LAMINATED GLASS, Saflex .090 1/4 cl. an.+ 0.090 +1/4 cl. an.	312	23.0
	WP: 1 3/4 RAISED WOOD PANEL	151 1/8	8.83

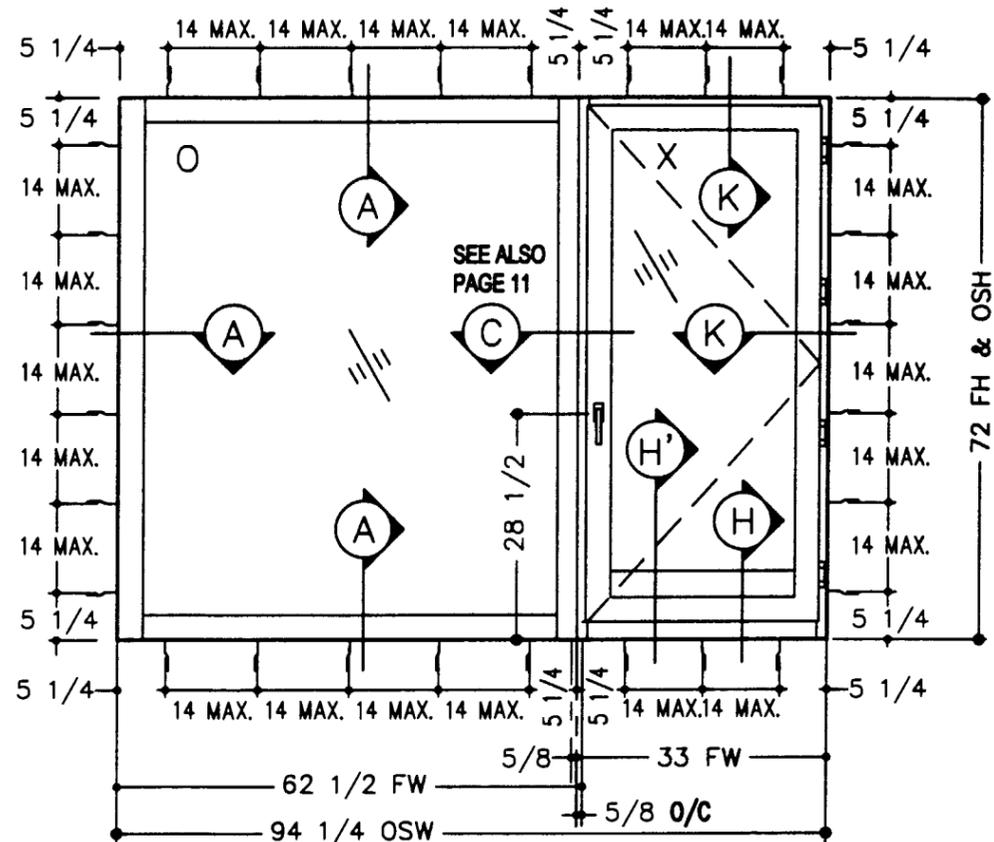


VIEWED FROM THE INSIDE

CONFIGURATIONS:
X, XX, O/XX, OXX, XXO, OX, XO
WOOD: Mahogany

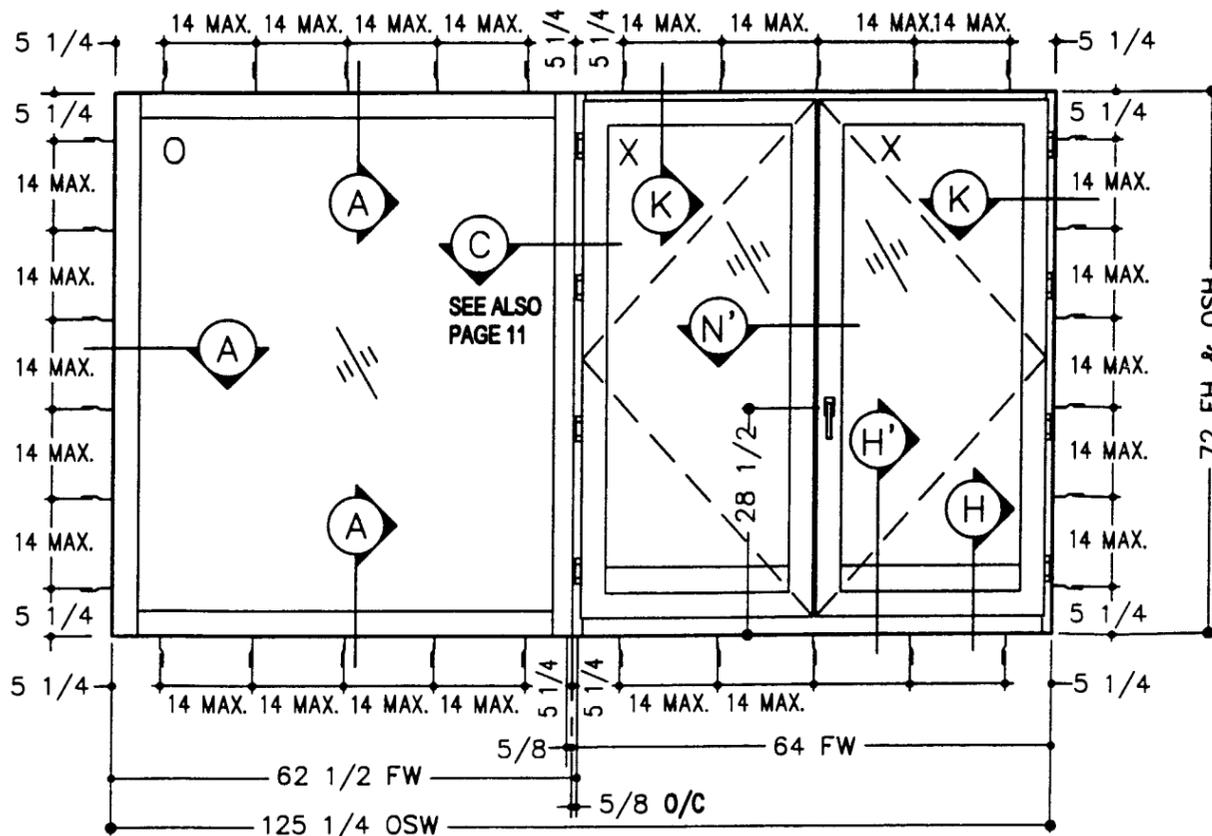


LEGEND:
FW: FRAME SIZE, WIDTH
FH: FRAME SIZE, HEIGHT
OSW: OVERALL SIZE, WIDTH
OSH: OVERALL SIZE, HEIGHT



VIEWED FROM THE INSIDE
CONFIGURATIONS:
 X, XX, O/XX, OXX, XXO, OX, XO
 WOOD: Mahogany

LEGEND:
 FW: FRAME SIZE, WIDTH
 FH: FRAME SIZE, HEIGHT
 OSW: OVERALL SIZE, WIDTH
 OSH: OVERALL SIZE, HEIGHT



DESIGN PRESSURE
 Acting Inward: +58 psf
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 NOTE: All sizes noted are maximum sizes. Sizes smaller in width & height are permitted.

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 Screwed to the buck frame and to the door frame with #10 x 1-3/4 in. flat head screws. Min. embedment is 1-1/2".
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INSTALLATION FASTENERS:
 Spacing is 5-1/4 in. from corners and 14" max o/c.
SHIM SPACE:
 1/4 IN. @ JAMBS, HEAD & SILL

HINGES SPACING

Two pins hinges # 2D-20 by Simonswerk GmbH secured with two #8 x 1-1/2" screws
 MATERIAL:
 BCS: Bichromated steel (open in)
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1855 GRIFFIN ROAD, SUITE A-274
 DANIA, FL 33004

SERIES 70/83
INSWING
WOOD CASEMENT WINDOW
 METRO DADE COUNTY
 IMPACT RESISTANT
 PA201, PA202 & PA203

Drawing no.: MQF70-1W
 Scale: NONE
 Drawn by: S. Marcotte
 Date drawn: 07/28/97
 Date revised: 09/16/02
 File: Dadelin_3.dwg
 Page: 3/19

ENGINEER:
 STRUCTURALLY REVIEWED BY:

TILECO INC.
 TILLIT TESTING & ENGINEERING COMPANY
 6595 NW 30th STREET, STE. 217
 MIAMI, FLORIDA 33166
WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
 FL LIC. NO. 44167
 9/19/02

PRODUCT RENEWED
 as complying with the Florida Building Code
 Acceptance No. 02-0129-08
 Expiration Date DEC 10, 2006

By *Manuel Lopez*
 Miami Dade Product Control Division

09/16/02	TYPE OF GLASS	MAX. PERI. [in.]	MAX. AREA [sq.ft.]
	G2: LAMINATED GLASS, Saflex .090 1/4 cl. an.+ 0.090 +1/4 cl. an.	312	23.0
	WP: 1 3/4" RAISED WOOD PANEL	151 1/8	8.83



1855 GRIFFIN ROAD, SUITE A-274
DANIA, FL 33004

**SERIES 70/83
OUTSWING
WOOD CASEMENT WINDOW**

METRO DADE COUNTY
IMPACT RESISTANT
PA201, PA202 & PA203

Drawing no.: MQF70-1W

Scale: NONE	Drawn by: S. Marcotte
Date drawn: 07/28/97	Date revised: 09/16/02
File: Dade1out_1.dwg	Page: 4 / 19

ENGINEER:

STRUCTURALLY REVIEWED BY



TILLIT TESTING & ENGINEERING COMPANY
6595 NW 30th STREET, STE. 217
MIAMI, FLORIDA 33166

**WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL. LIC. NO. 48167**

Walter A. Tillit Jr.
9/19/02

PRODUCT RENEWED
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Acceptance No. 02-0129.08
Expiration Date DEC 10, 2006

By *Manuel...*
Miami Dade Product Control
Division

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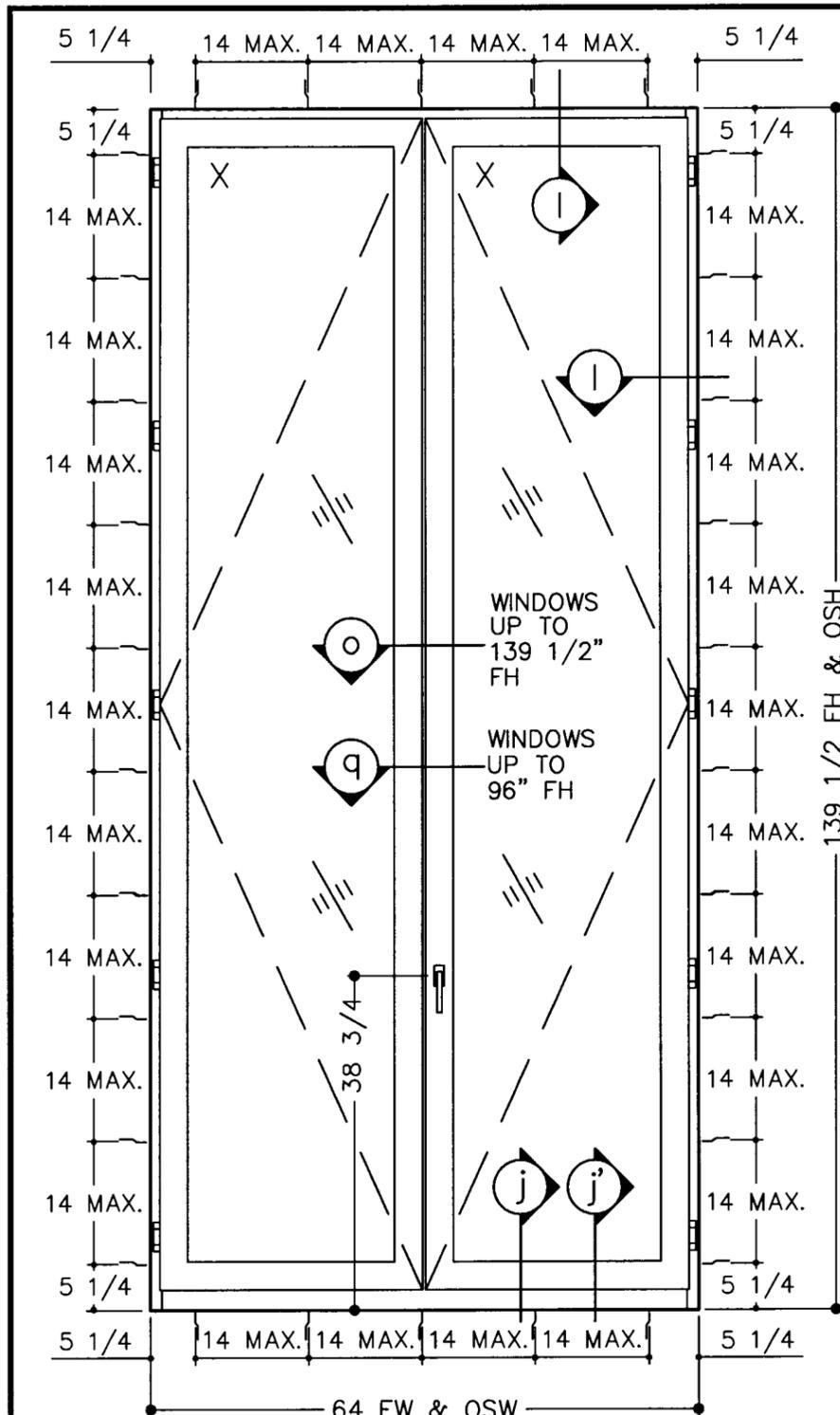
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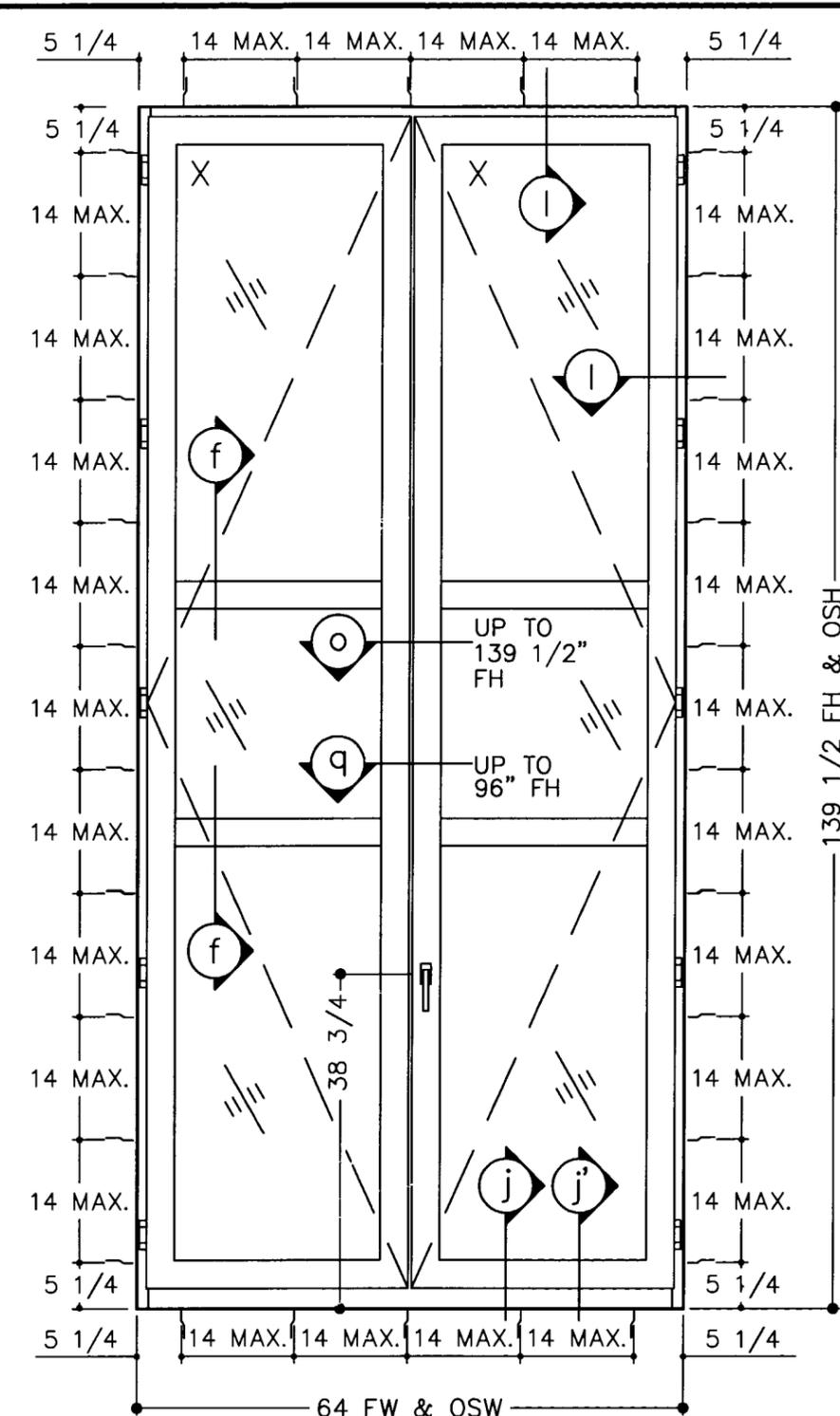
INSTALLATION FASTENERS:
Spacing is 5-1/4 in. from corners and 14" max o/c.
SHIM SPACE:
1/4 IN. @ JAMBS, HEAD & SILL

HINGES SPACING			
Two pins hinges # 2D-20 by Simonswerk GmbH secured with two #8 x 1-1/2" screws			
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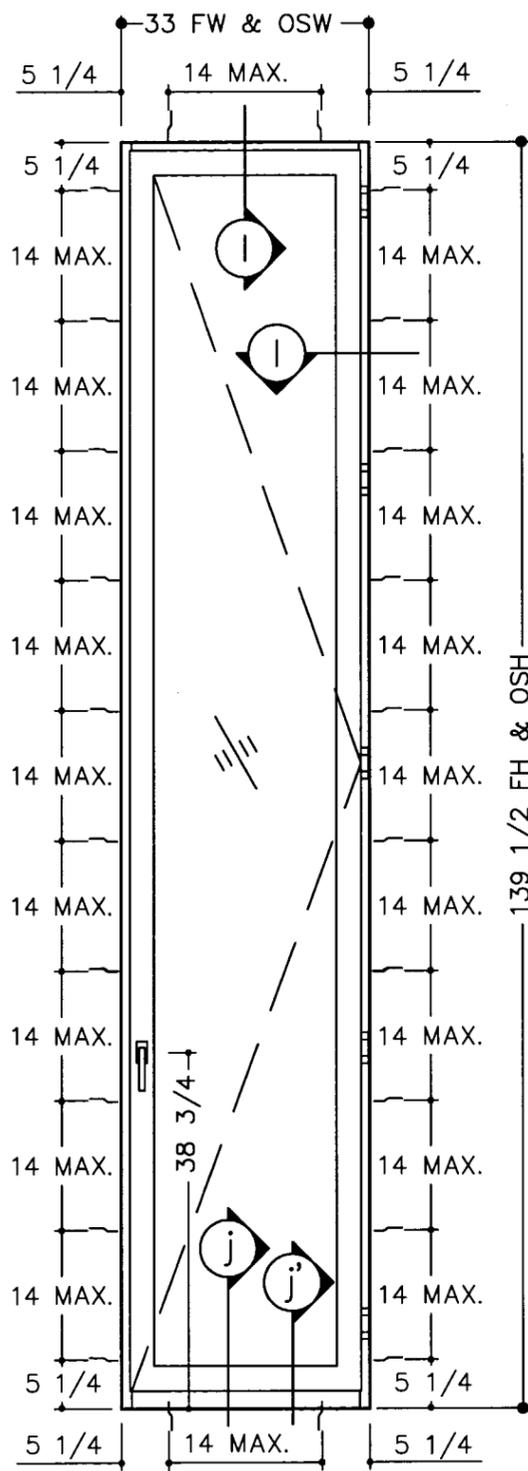
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WP: 1"3/4 RAISED WOOD PANEL	151 1/8	8.83



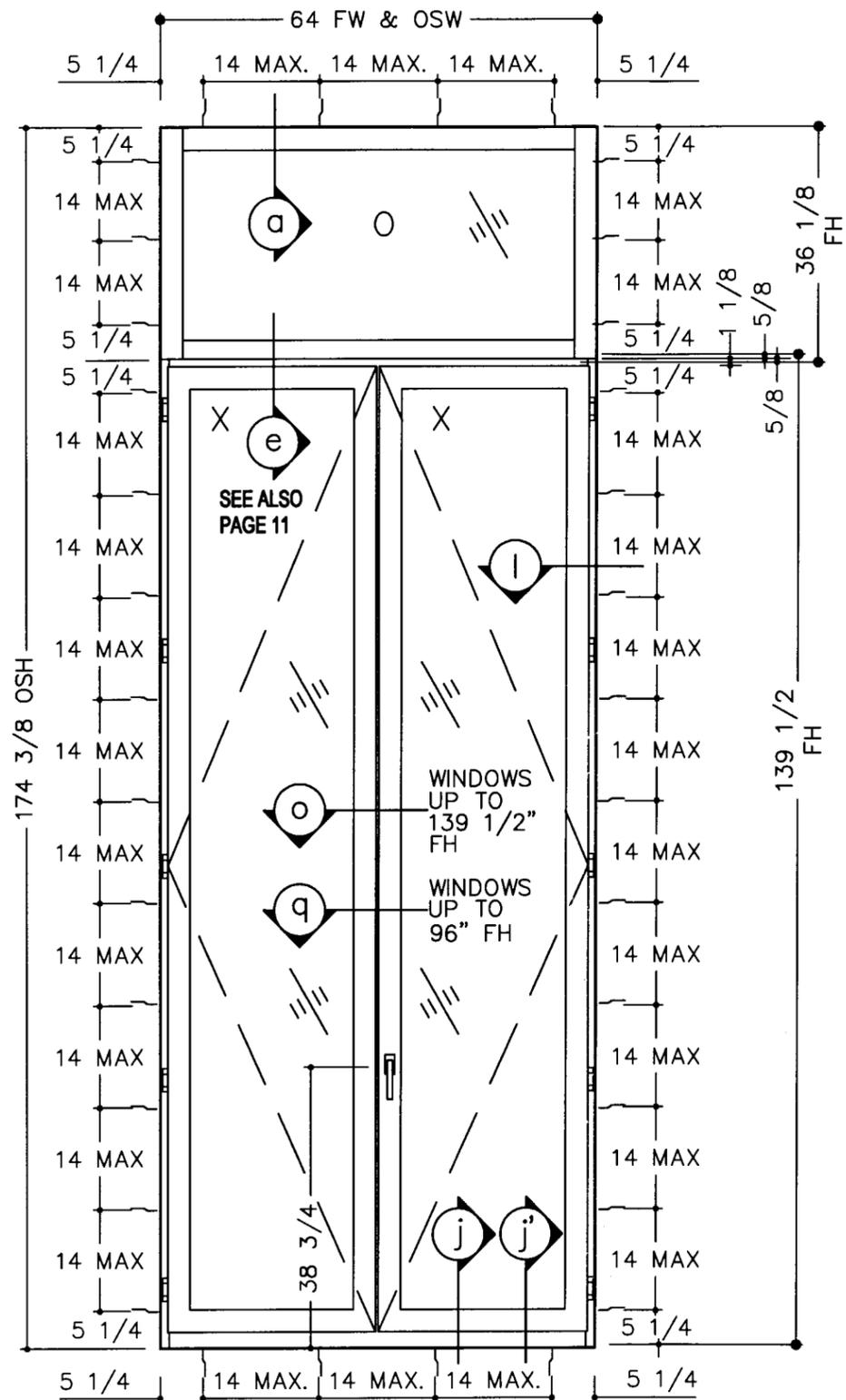
**VIEWED FROM THE OUTSIDE
CONFIGURATIONS:
X, XX, O/XX ,OXX,XXO,OX,XO**
WOOD: Mahogany



LEGEND:
FW: FRAME SIZE, WIDTH
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VIEWED FROM THE OUTSIDE
CONFIGURATIONS:
 X, XX, O/XX, OXX, XXO, OX, XO
 WOOD: Mahogany



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ANCHOR FASTENERS
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1855 GRIFFIN ROAD, SUITE A-274
 DANIA, FL 33004

SERIES 70/83
OUTSWING
WOOD CASEMENT WINDOW
 METRO DADE COUNTY
 IMPACT RESISTANT
 PA201, PA202 & PA203

Drawing no.: MQF70-1W
 Scale: NONE
 Drawn by: S. Marcotte
 Date drawn: 07/28/97
 Date revised: 09/16/02
 File: Dade1out_2.dwg
 Page: 5/19

ENGINEER:

STRUCTURALLY REVIEWED BY:



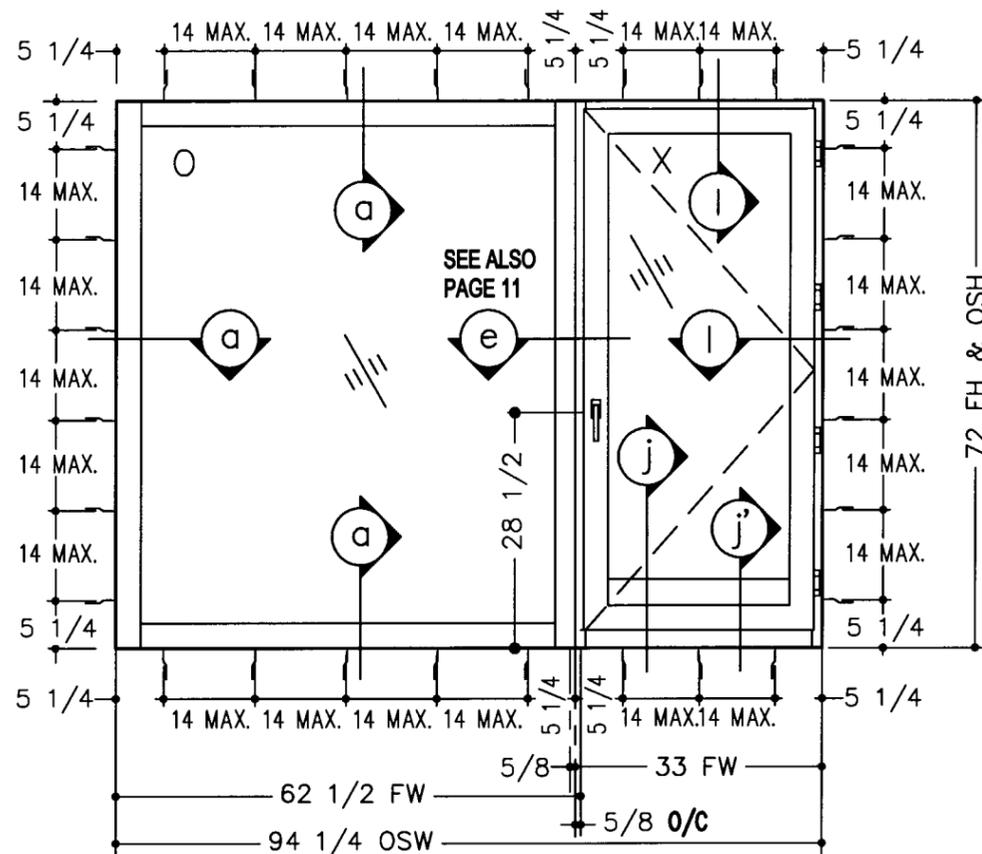
TILLIT TESTING & ENGINEERING COMPANY
 6585 NW 30th STREET, STE. 217
 MIAMI, FLORIDA 33166

WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
 FL. LIC. NO. 48167

Walter A. Tillit Jr.
 9/19/02

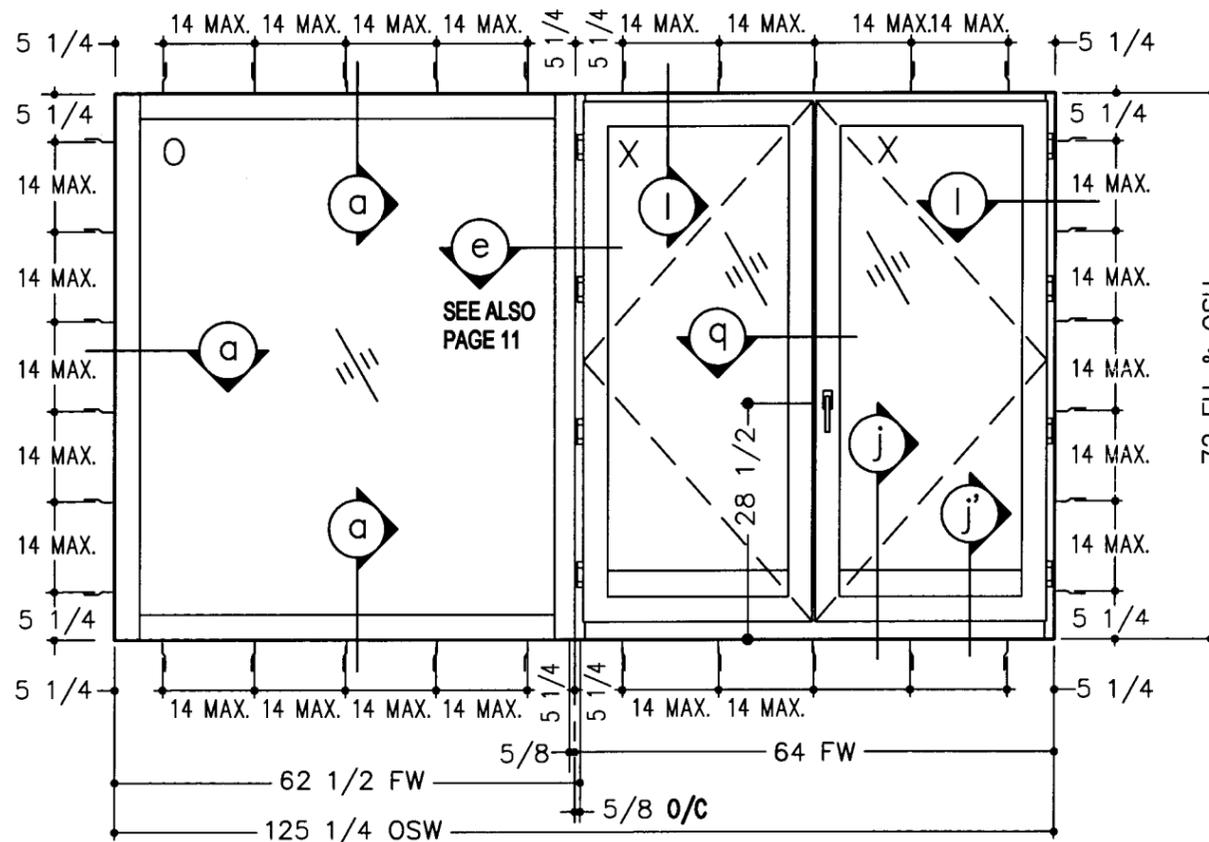
PRODUCT RENEWED
 as complying with the Florida Building Code
 Acceptance No 02-0129.08
 Expiration Date DEC 10, 2006

By *Marcotte*
 Miami/Dade Product Control Division



VIEWED FROM THE OUTSIDE
CONFIGURATIONS:
 X, XX, O/XX, OXX, XXO, OX, XO
 WOOD: Mahogany

LEGEND:
 FW: FRAME SIZE, WIDTH
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DESIGN PRESSURE
Acting Inward: +58 psf Acting Outward: -68 psf
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 1/4 IN. @ JAMBS, HEAD & SILL

HINGES SPACING			
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SS: Stainless steel (open out)			
FRAME HEIGHT	QTY:	DIST. FROM CORNER	O/C MAX.
UP TO			
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96 1/8"	4	6 1/8"	27"
139 1/2"	5	6 1/8"	30 3/8"

TYPE OF GLASS	MAX. PERI. [in.]	MAX. AREA [sq.ft.]
G2: LAMINATED GLASS, Saflex .090 1/4 cl. an.+ 0.090 +1/4 cl. an.	312	23.0
WP: 1"3/4 RAISED WOOD PANEL	151 1/8	8.83



1855 GRIFFIN ROAD, SUITE A-274
 DANIA, FL 33004

SERIES 70/83
OUTSWING
WOOD CASEMENT WINDOW
 METRO DADE COUNTY
 IMPACT RESISTANT
 PA201, PA202 & PA203

Drawing no.: MQF70-1W	
Scale: NONE	Drawn by: S. Marcotte
Date drawn: 07/28/97	Date revised: 09/16/02
File: Dade1out_3.dwg	Page: 6/19

ENGINEER:

STRUCTURALLY REVIEWED BY:



WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
 FL. LIC. NO. 43167

Signature
 9/11/02

PRODUCT RENEWED
 as complying with the Florida Building Code
 Acceptance No 02-0129.08
 Expiration Date DEC 10, 2006
 By *Signature*
 Miami/Dade Product Control Division



1855 GRIFFIN ROAD, SUITE A-274
DANIA, FL 33004

**SERIES 70/83
INSWING
WOOD CASEMENT WINDOW**

METRO DADE COUNTY
IMPACT RESISTANT
PA201, PA202 & PA203

Drawing no.: MQF70-1W

Scale: NONE
Drawn by: E. Corbeil

Date drawn: 09/09/97
Date revised: 09/16/02

File: Dade1in_4.dwg
Page: 7 / 19

ENGINEER:

STRUCTURALLY REVIEWED BY:



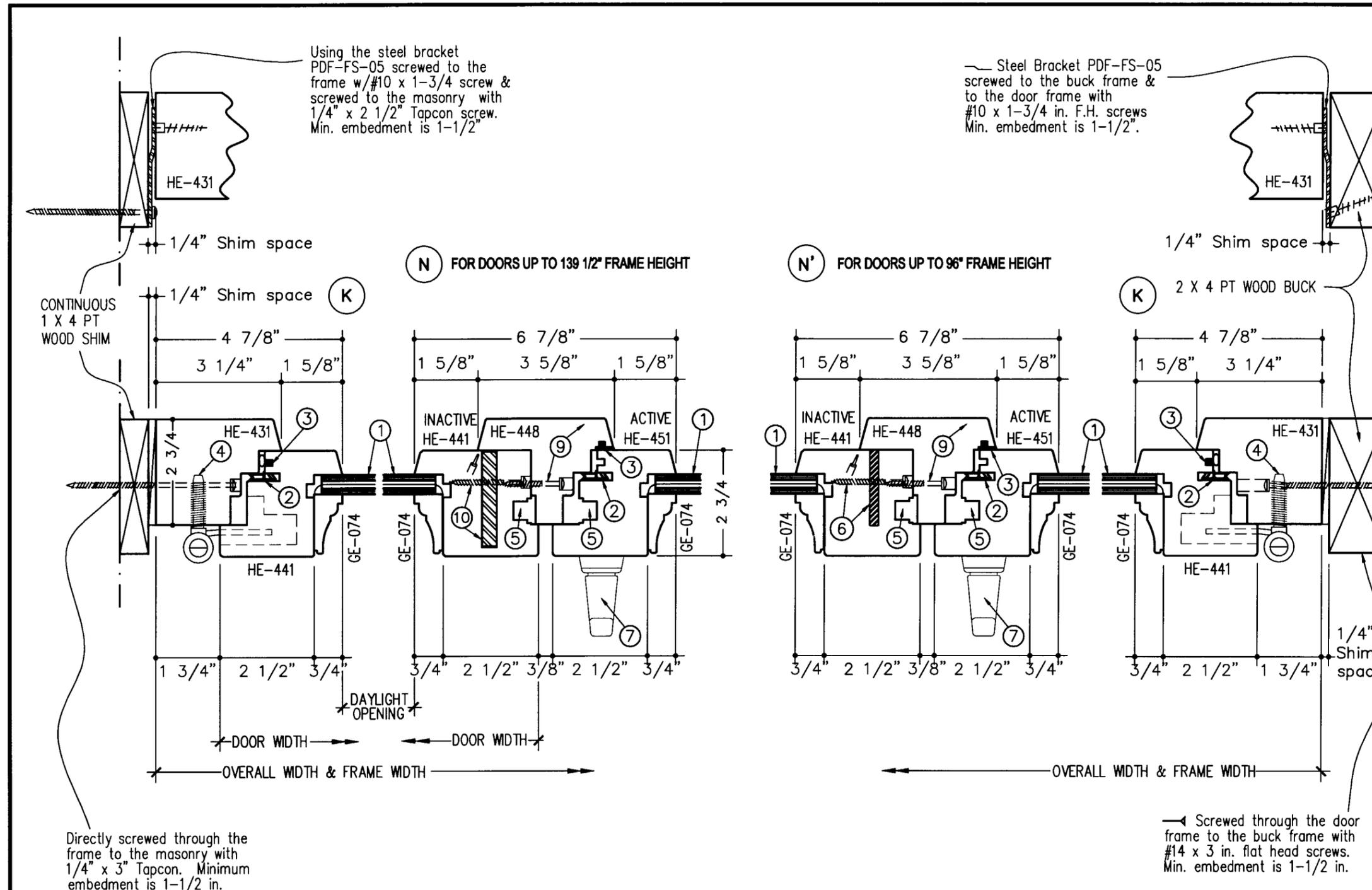
TILLIT TESTING & ENGINEERING COMPANY
8595 NW 30th STREET, STE. 217
MIAMI, FLORIDA 33166

**WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL LIC. NO. 44167**

Walter A. Tillit Jr.
9/16/02

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. **02-0129-08**
Expiration Date **DEC 10, 2006**

By *Walter A. Tillit Jr.*
Miami Dade Product Control
Division



NOTES:
INSTALLATION FASTENERS:
Spacing is 5-1/4 in. from corners & 14" max o/c.
SHIM SPACE:
1/4 IN. @ JAMBS, HEAD & SILL

- ① IMPACT RESISTANT GLASS
G1: SAFETY PLUS GLASS; 5/32 cl. an., .060 polyester resin, .010 PET film, .060 polyester resin, 5/32 cl. an.
G2: LAMINATED GLASS; 1/4" cl. an., 0.090" SAFLEX PVB, 1/4" cl. an.
 - ② EPDM MIDDLE GASKET L5150
 - ③ EPDM EXTERIOR GASKET WD111
 - ④ ADJUSTABLE HINGE 2D-20
 - ⑤ HARDWARE SLOT (STD "EUROGROOVE")
 - ⑥ 1/4" x 2" CF GALVANIZED STEEL PLATE REINFORCEMENT NO. A10650 ATTACHED W/ 1 1/2" NO 8 WOOD SCREWS @ 16" O/C
 - ⑦ HANDLE
 - ⑧ ASTRAGAL WOOD PROFILE HE-448, ATTACHED TO THE INACTIVE SASH WITH #8 X 1-1/12" SCREWS SPACED @ 14" O/C (MINIMUM EMBEDMENT: 3/4")
 - ⑨ 3/8" x 2 1/2" CF GALVANIZED STEEL PLATE REINFORCEMENT NO. A11064 ATTACHED W/ 1 1/2" NO 8 WOOD SCREWS @ 16" O/C
- CLEAR "SPECTREM 2" SILICONE SCELLANT AT SHOWN INTERFACES



1855 GRIFFIN ROAD, SUITE A-274
DANIA, FL 33004

**SERIES 70/83
OUTSWING
WOOD CASEMENT WINDOW**

METRO DADE COUNTY
IMPACT RESISTANT
PA201, PA202 & PA203

Drawing no.: MQF70-1W

Scale: NONE Drawn by: E. Corbeil

Date drawn: 09/09/97 Date revised: 09/16/02

File: Dade1out_5.dwg Page: 10/19

ENGINEER:

STRUCTURALLY REVIEWED BY:



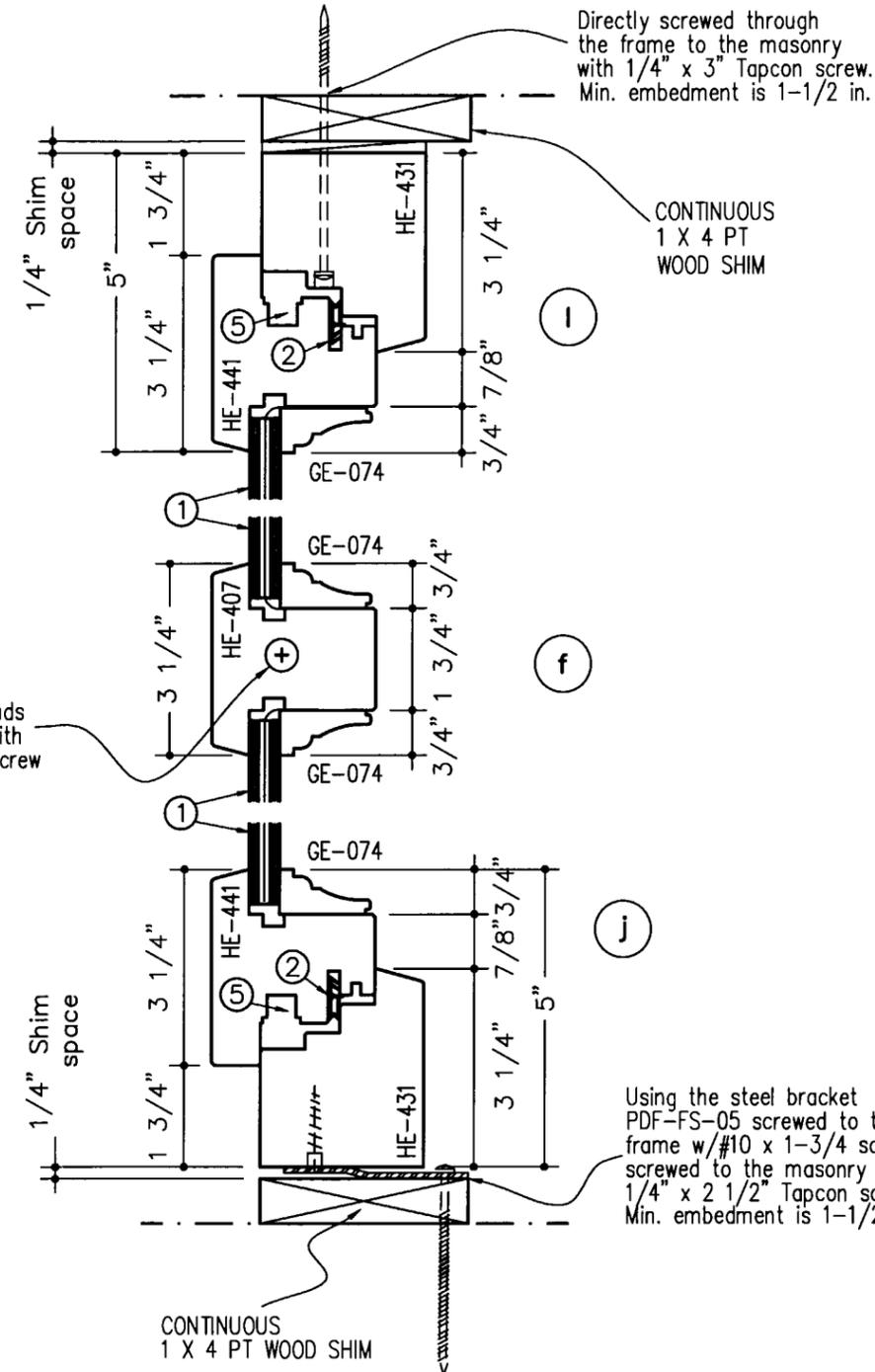
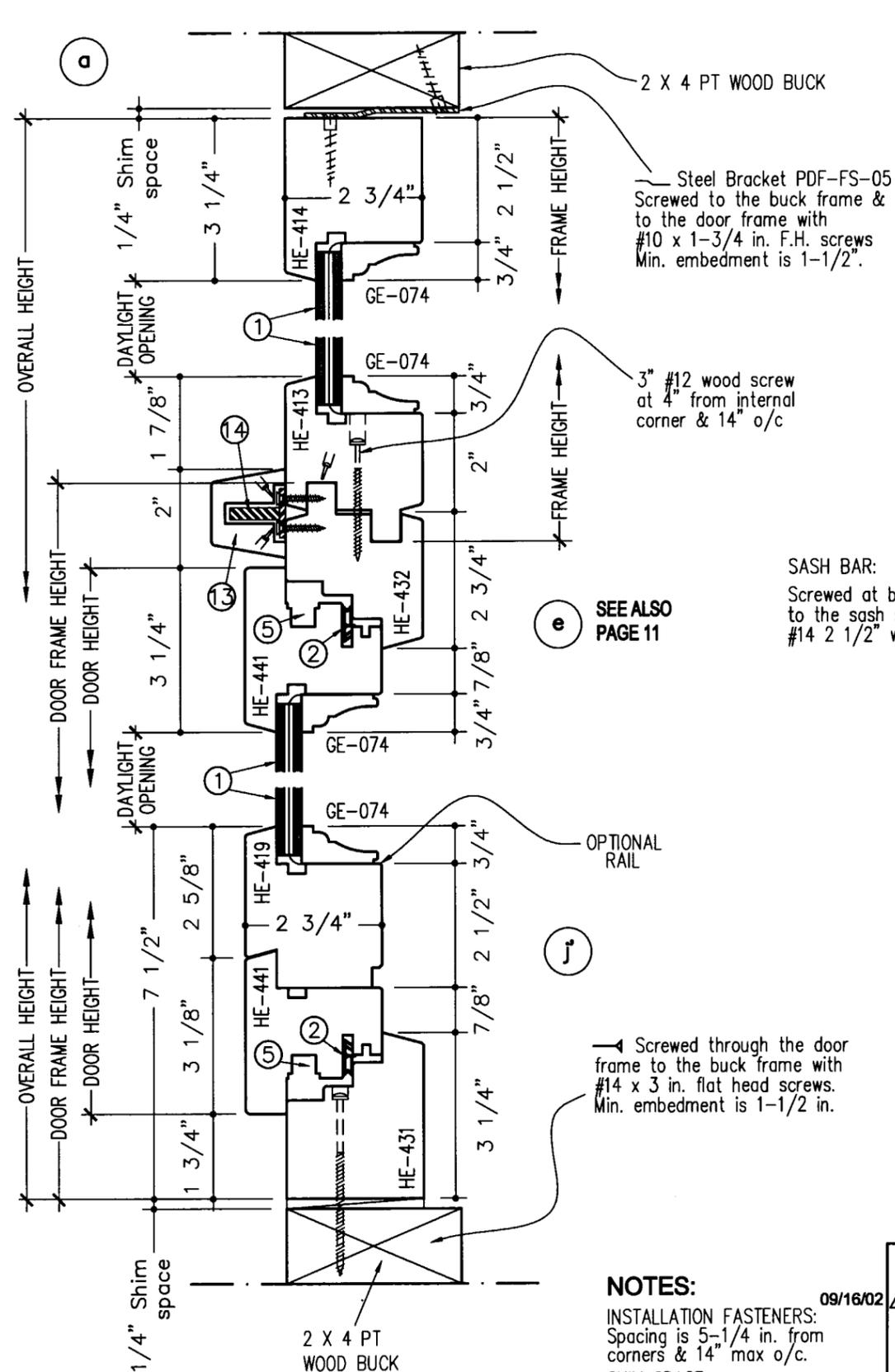
TILLIT TESTING & ENGINEERING COMPANY
6595 NW 36th STREET, STE. 217
MIAMI, FLORIDA 33166

WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL LIC. NO. 44167

Walter A. Tillit Jr.
9/16/02

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 02-0129.08
Expiration Date DEC. 10, 2006

By *Manuel Sosa*
Miami Dade Product Control
Division



NOTES:

INSTALLATION FASTENERS:
Spacing is 5-1/4 in. from
corners & 14" max o/c.

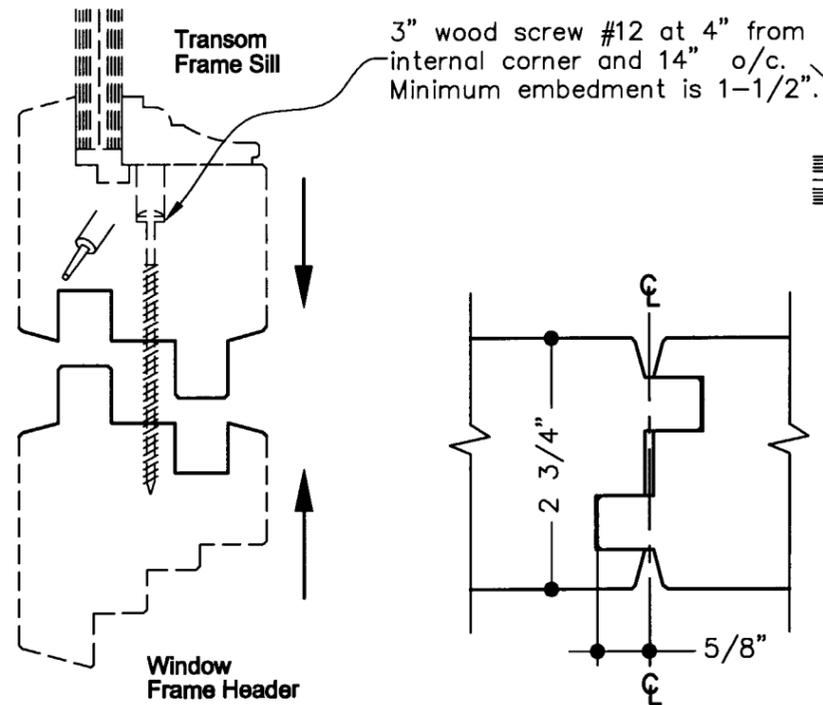
SHIM SPACE:
1/4 IN. @ JAMBS, HEAD & SILL

09/16/02

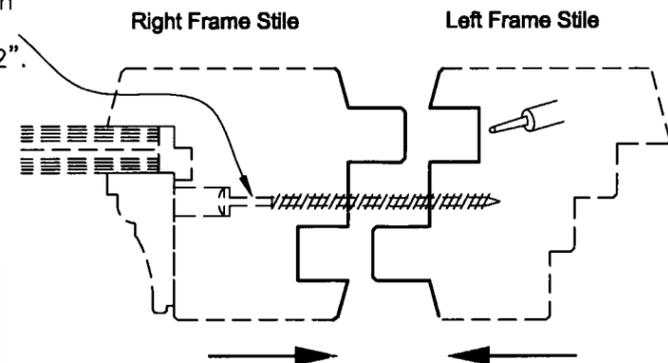
- ① IMPACT RESISTANT GLASS
G1: SAFETY PLUS GLASS; 5/32 cl. an., .060 polyester resin, .010 PET film, .060 polyester resin, 5/32 cl. an.
G2: LAMINATED GLASS; 1/4" cl. an., 0.090" SAFLEX PVB, 1/4" cl. an.
- ② EPDM MIDDLE GASKET L5150
- ⑤ HARDWARE SLOT (STD "EUROGROOVE")

- ⑬ DECORATIVE WOOD MOULDING
- ⑭ T-SHAPE STEEL REINFORCEMENT no. AT2528 SCREWED AT 9" MAX. o/c WITH 2x #8 x 1" WOOD SCREW. EMBEDMENT IS 7/8".
- CLEAR "SPECTREM 2" SILICONE SCELLANT AT SHOWN INTERFACES

HORIZONTAL MULLION



VERTICAL MULLION

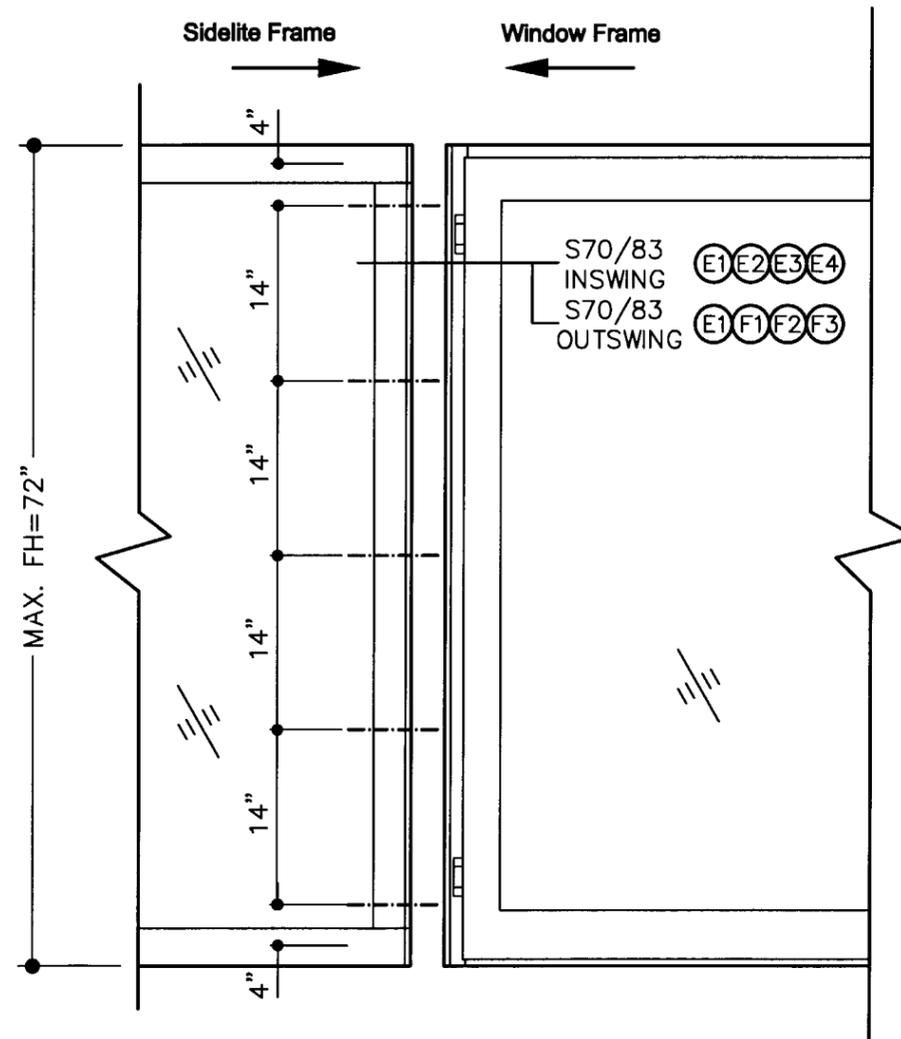
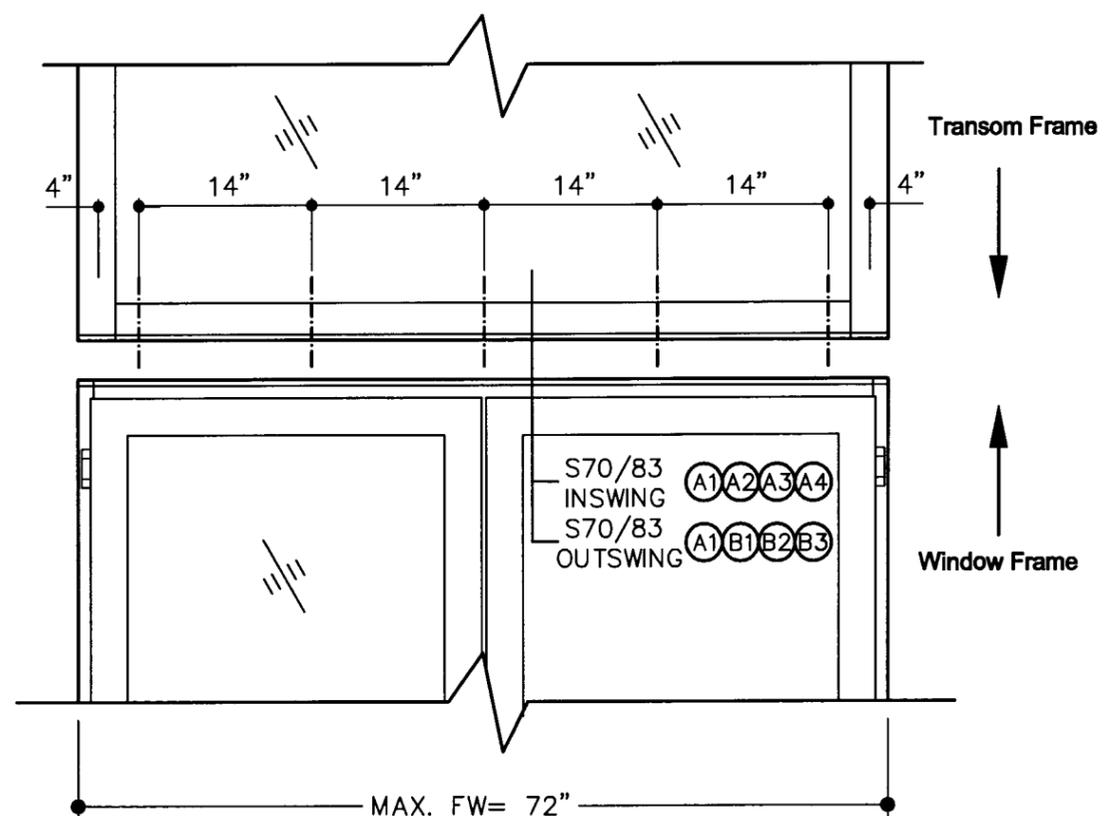


NOTES:

FH= FRAME HEIGHT
FW= FRAME WIDTH

In standard applications, sidelites and transoms are screwed at the factory, in special cases, job site installation could be done. In this case, holes are pre-drilled at the factory and screws are included.

Wood = Mahogany



CLEAR "SPECTREM 2" SILICONE SCELLANT AT SHOWN INTERFACES



1855 GRIFFIN ROAD, SUITE A-274
DANIA, FL 33004

SERIES 70/83
INSWING & OUTSWING
WOOD CASEMENT WINDOW
MULLION
SIDE BY SIDE INSTALLATION

METRO DADE COUNTY
PA201, PA202 & PA203

Drawing no.: MQF70-1W

Scale: NONE	Drawn by: E. Corbeil
Date drawn: 11/26/97	Date revised: 07/22/98
File: Coup_W1.dwg	Page: 11 / 19

ENGINEER:

STRUCTURALLY REVIEWED BY:
TILECO inc.
TILLIT TESTING & ENGINEERING COMPANY
6595 NW 36th STREET, STE. 217
MIAMI, FLORIDA 33166

WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL. LIC. NO. 44167

Walter A. Tillit Jr.
9/11/97

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as complying with the Florida
Building Code
Acceptance No **02-0129.08**
Expiration Date **DEC. 10, 2006**

By *[Signature]*
Miami Dade Product Control
Division



1855 GRIFFIN ROAD, SUITE A-274
DANIA, FL 33004

**SERIES 70/83
OUTSWING
WOOD CASEMENT WINDOW
MULLION
SIDE BY SIDE INSTALLATION**

METRO DADE COUNTY
PA201, PA202 & PA203

Drawing no.: MQF70-1W

Scale: 1 = 3	Drawn by: S. Marcotte
Date drawn: 07/22/97	Date revised: 09/16/02
File: Coup_W3.dwg	Page: 13/19

ENGINEER:

STRUCTURALLY REVIEWED BY:

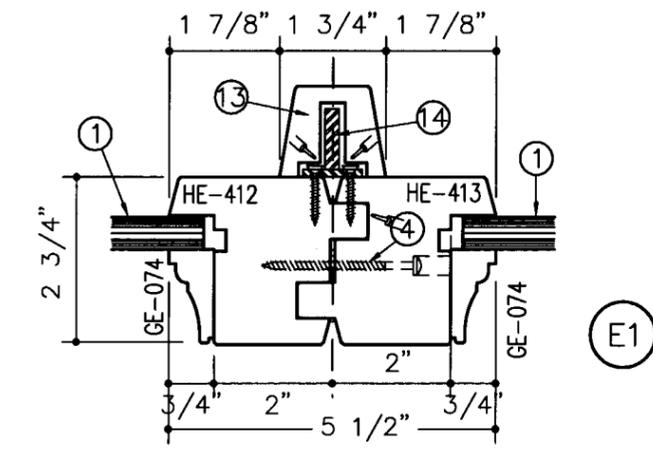
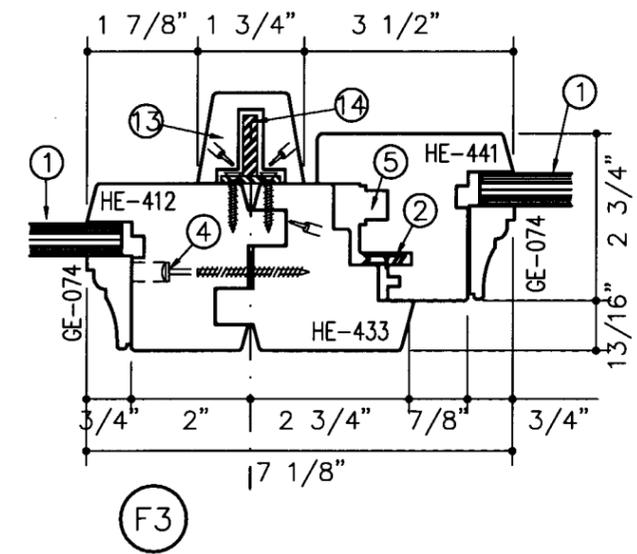
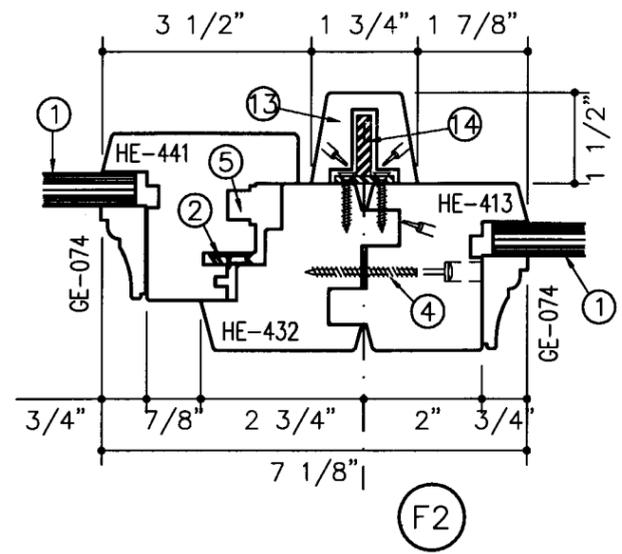
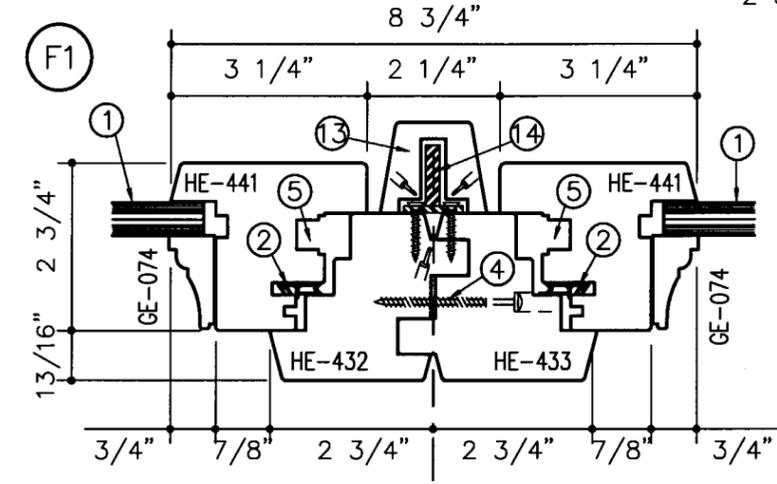
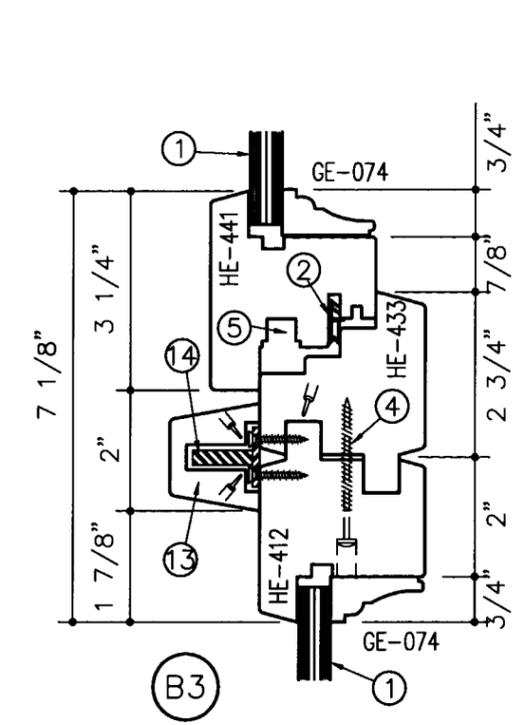
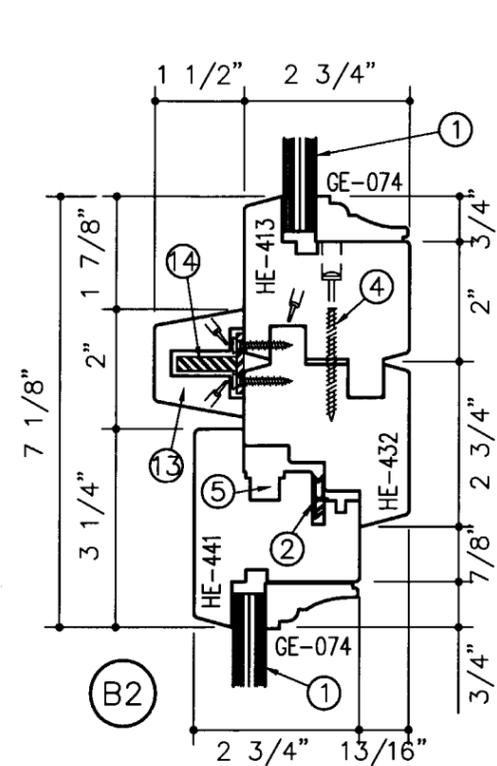
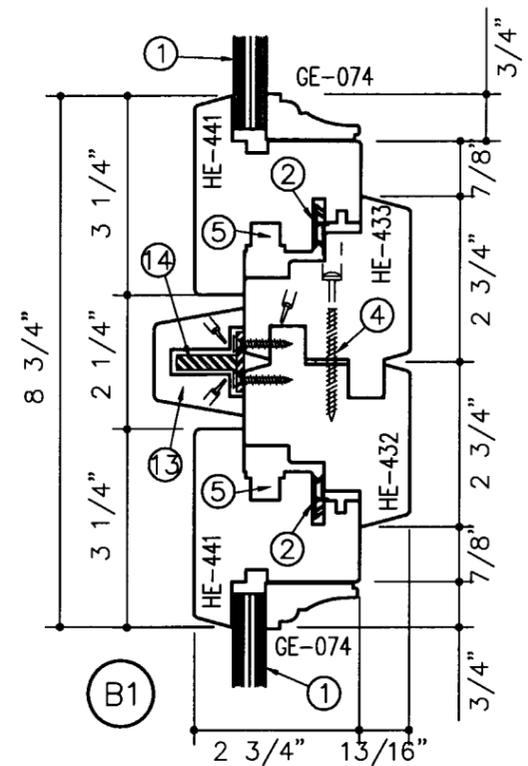
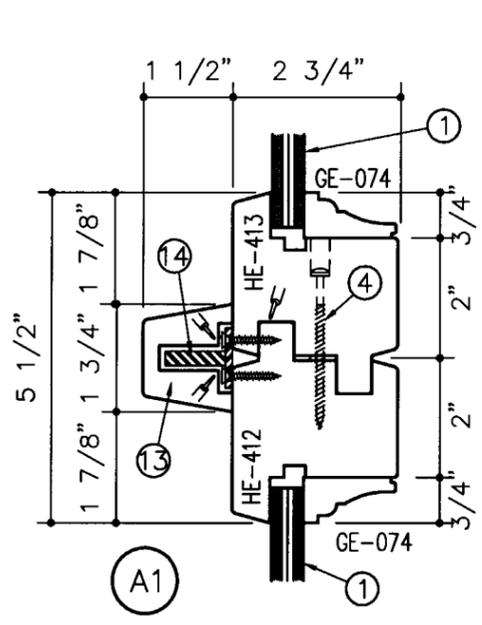


**WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL. LIC. NO. 44167**

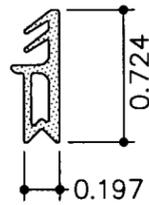
Walter A. Tillit Jr.
9/1/97

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No **02-0129.08**
Expiration Date **DEC 10, 2006**

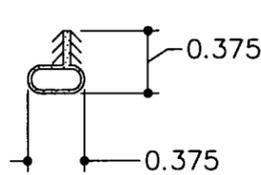
By *Manuel...*
Miami/Dade Product Control
Division



- 09/16/02
- ① IMPACT RESISTANT GLASS
G1: SAFETY PLUS GLASS, 5/32 cl. an., .060 polyester resin, .010 PET film, .060 polyester resin, 5/32 cl. an.
G2: LAMINATED GLASS; 1/4" cl. an., 0.090" SAFLEX PVB, 1/4" cl. an.
 - ② EPDM MIDDLE GASKET L5150
 - ④ #12-3" WOOD SCREW AT 4" FROM INTERNAL CORNER & 14" o/c; MINIMUM EMBEDMENT IS 1 1/2".
 - ⑤ HARDWARE SLOT (STD. "EUROGROOVE")
 - ⑬ DECORATIVE WOOD MOULDING
 - ⑭ T-SHAPE STEEL REINFORCEMENT no. AT2528 SCREWED AT 9" MAX. o/c WITH 2x #8 x1" WOOD SCREW. EMBEDMENT IS 7/8".
 - CLEAR "SPECTREM 2" SILICONE SCELLANT AT SHOWN INTERFACES

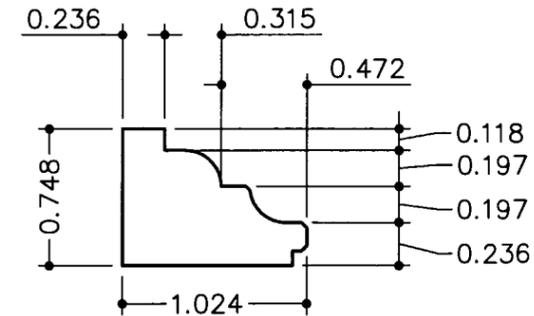


② L5150
EPDM Middle Gasket



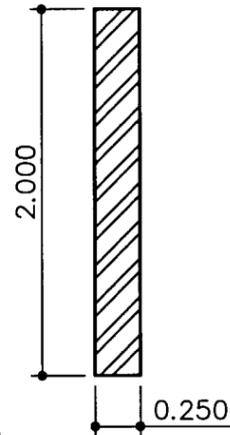
③ WD111 EPDM Exterior Gasket

NOTE: As seen when compressed between astragal & active sash

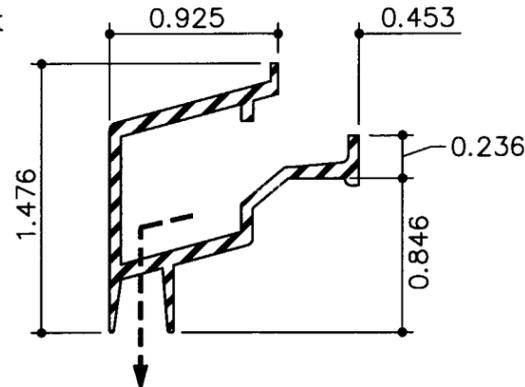
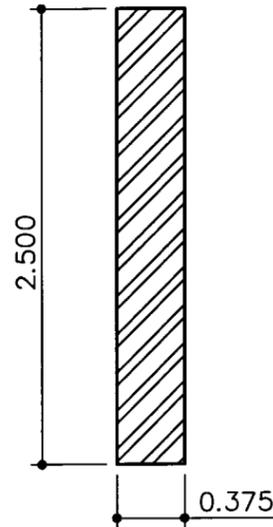


GE-064 Glazing Bead for 1 in.
Glass Thickness or for Wood Panel

⑥ AI0650
Steel Reinforcement

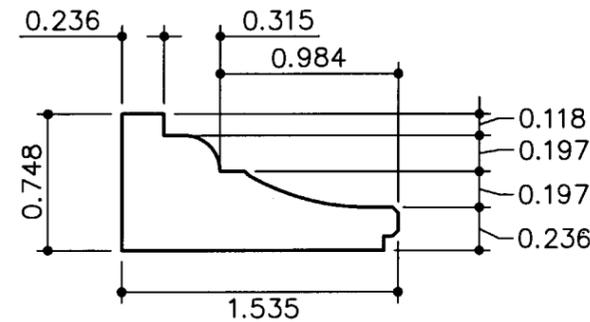


⑩ AI1050
Steel Reinforcement



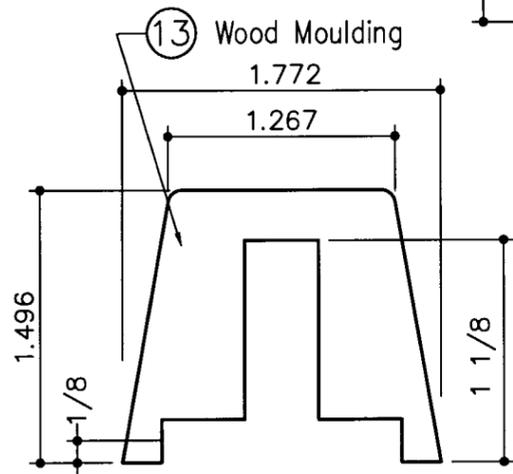
⑧ FS15S Aluminum Rainguard

NOTE: WEEPHOLES @ 4-3/4 in. o/c, 5/32 in. x 1 in.

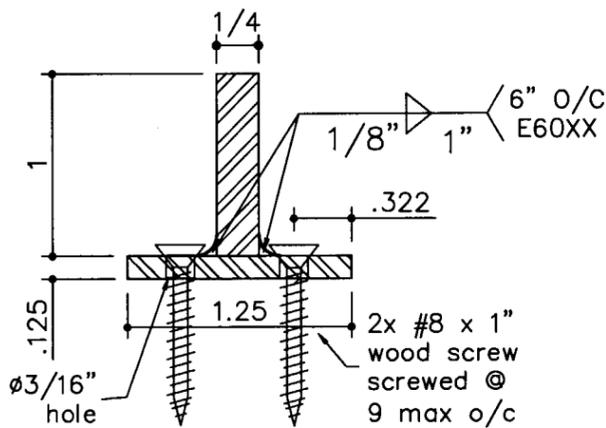


GE-074 Glazing Bead for 1/2 in.
Glass Thickness

NOTE: Yield Point of the reinforcements: 47,000 psi



⑬ Wood Moulding



⑭ AT2528 Steel Reinforcement

REFERRING TO CROSS SECTIONS DRAWINGS OF THIS SERIE

PART #	QTY.	DESCRIPTION	MATERIAL	DIMENSION	LOCATION
②	Lf depends on Sash perimeter	Brüggman, Push-in middle gasket no. L5150	EPDM	3/4 in. x 1/4 in.	Continuous groove around entire perimeter of ACTIVE SASH. Continuous groove on top rail, bottom rail and hinged stile of IN-ACTIVE SASH
③	Lf depends on Sash perimeter	Atlantech, Push-in exterior bulb gasket no. WD111	EPDM	3/8 in. x 3/8 in.	ACTIVE & INACTIVE SASH: Along hinged stiles ASTRAGAL PROFILE: Along the profile, between astragal and active sash
⑥	1 per inactive sash	Additional Reinforcement AI0650	Galvanized Steel AISI C1020, Cold drawn	2.0 in. x .250 in. length: 12 in. less than inactive sash height	Located in a notch cut in the locking stile of the IN-ACTIVE sash.
⑧	1	Rainguard no. FS15S	Extruded Al. T5	1.476 in. x 1.378 in.	Located on top of frame sill
⑩	1 per inactive sash	Additional Reinforcement AI1050	Galvanized Steel AISI C1020, Cold drawn	2.5 in. x .375 in. length: 12 in. less	Located in a notch cut in the locking stile of the IN-ACTIVE sash.
⑬	1 per mullion	Decorative continuous moulding	Mahogany wood	1-3/4 in. x 1-1/2 in.	Nailed along the entire length of the mullion; on top of the T-shape reinforcement.
⑭	1 per mullion	Welded T-Shape reinforcement no. AT2528	Galvanized steel AISI C1020 Cold drawn	1 1/4 in. x 1-1/8 in.	Screwed along the entire length of the mullion. at 9" max. o/c with 2x #8 x 1" wood screw. Embedment is 7/8".
GE-064	1 per glass edge	Glazing bead (for 1 in. glass thickness & for wood panel)	Mahogany Wood	3/4 in. x 1-1/2 in.	Nailed through the sash frame at the glass or wood panel perimeter
GE-074	1 per glass edge	Glazing bead (for 1/2 in. glass thickness)	Mahogany Wood	3/4 in. x 1-1/2 in.	Nailed through the sash frame at the glass perimeter



1855 GRIFFIN ROAD, SUITE A-274
DANIA, FL 33004

SERIES 70/83
INSWING & OUTSWING
WOOD CASEMENT WINDOW

ACCESSORIES & HARDWARE

METRO DADE COUNTY
IMPACT RESISTANT
PA201, PA202 & PA203

Drawing no.: MQF70-1W

Scale: 1=1	Drawn by: E. Fortin
Date drawn: 08/07/98	Date revised: -
File: 1W_A&H.dwg	Page: 14/19

ENGINEER:

STRUCTURALLY REVIEWED BY:

TILECO INC.
TILLIT TESTING & ENGINEERING COMPANY
8595 NW 36th STREET, STE. 217
MIAMI, FLORIDA 33166

WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL LIC. NO. 44167

[Signature]
9/11/98

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 02-0129-08
Expiration Date DEC. 10, 2006

By *[Signature]*
Miami/Dade Product Control
Division



1855 GRIFFIN ROAD, SUITE A-274
DANIA, FL 33004

**SERIES 70/83 & 70/114
WOOD CASEMENT WINDOW
& WOOD DOORS**
ACCESSORIES & HARDWARE
METRO DADE COUNTY
IMPACT RESISTANT
PA201, PA202 & PA203

Drawing no.: MQF70-1W

Scale: 1=1
Drawn by: E. Fortin

Date drawn: 08/07/98
Date revised: -

File: 70_A&H.dwg
Page 15 / 19

ENGINEER:

STRUCTURALLY REVIEWED BY:



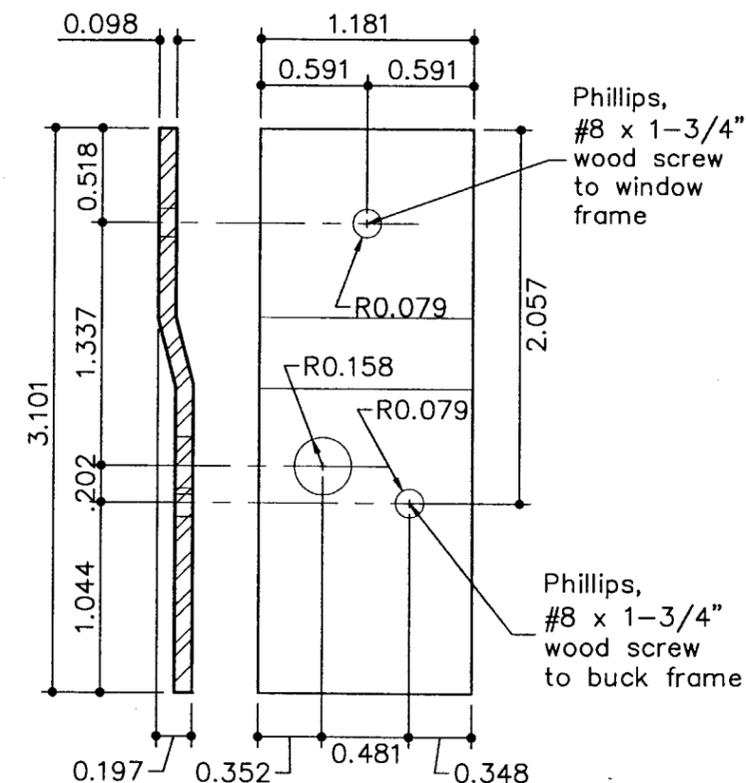
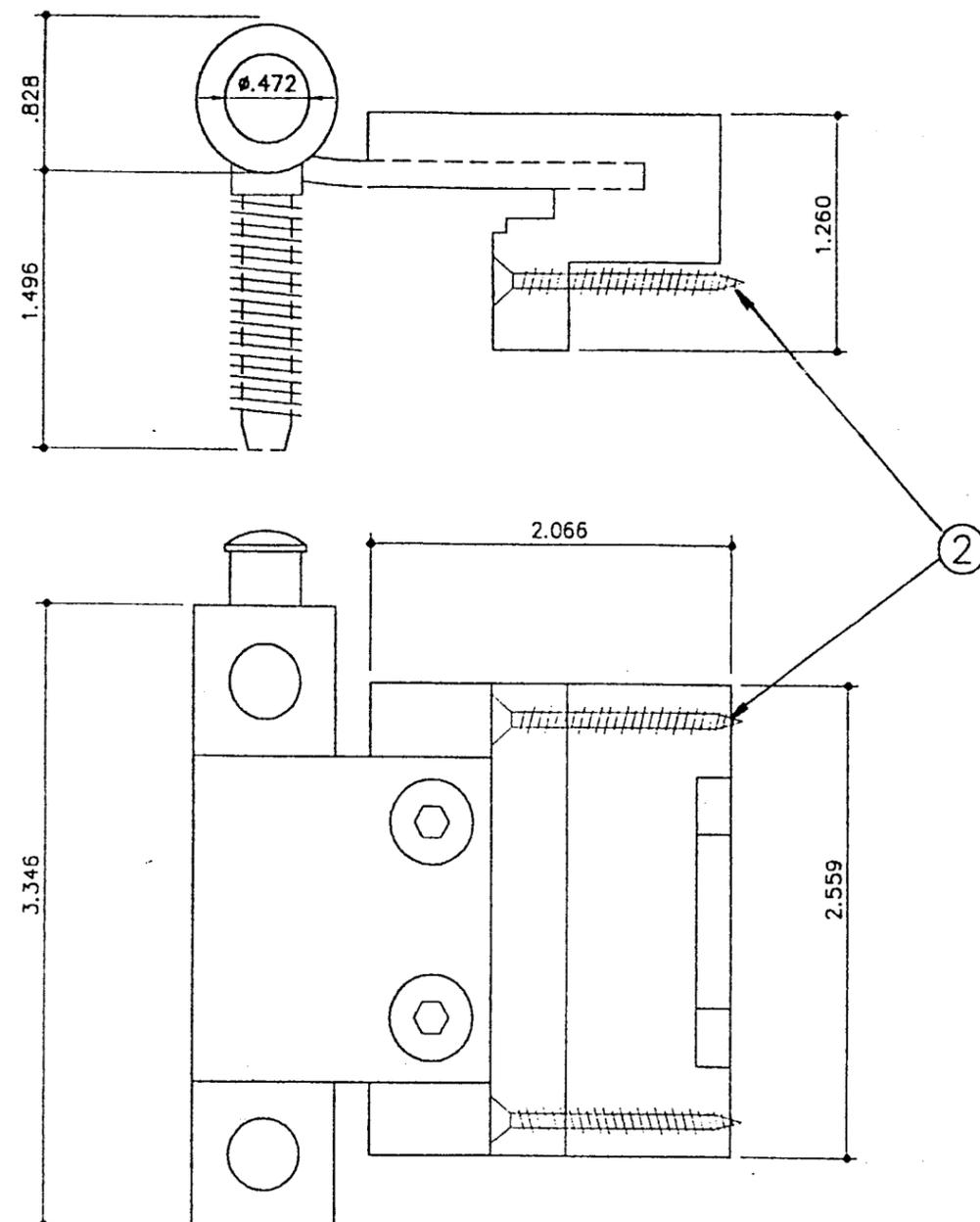
TILLIT TESTING & ENGINEERING COMPANY
8595 NW 30th STREET, STE. 217
MIAMI, FLORIDA 33166

WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL. LIC. NO. 44167

Walter A. Tillit Jr.
9/1/98

PRODUCT RENEWED
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Building Code
Acceptance No. 02-0129-08
Expiration Date DEC. 10, 2006

By *Maurice J. ...*
Miami Dade Product Control
Division



③ PDF-FS-05 Installation Bracket

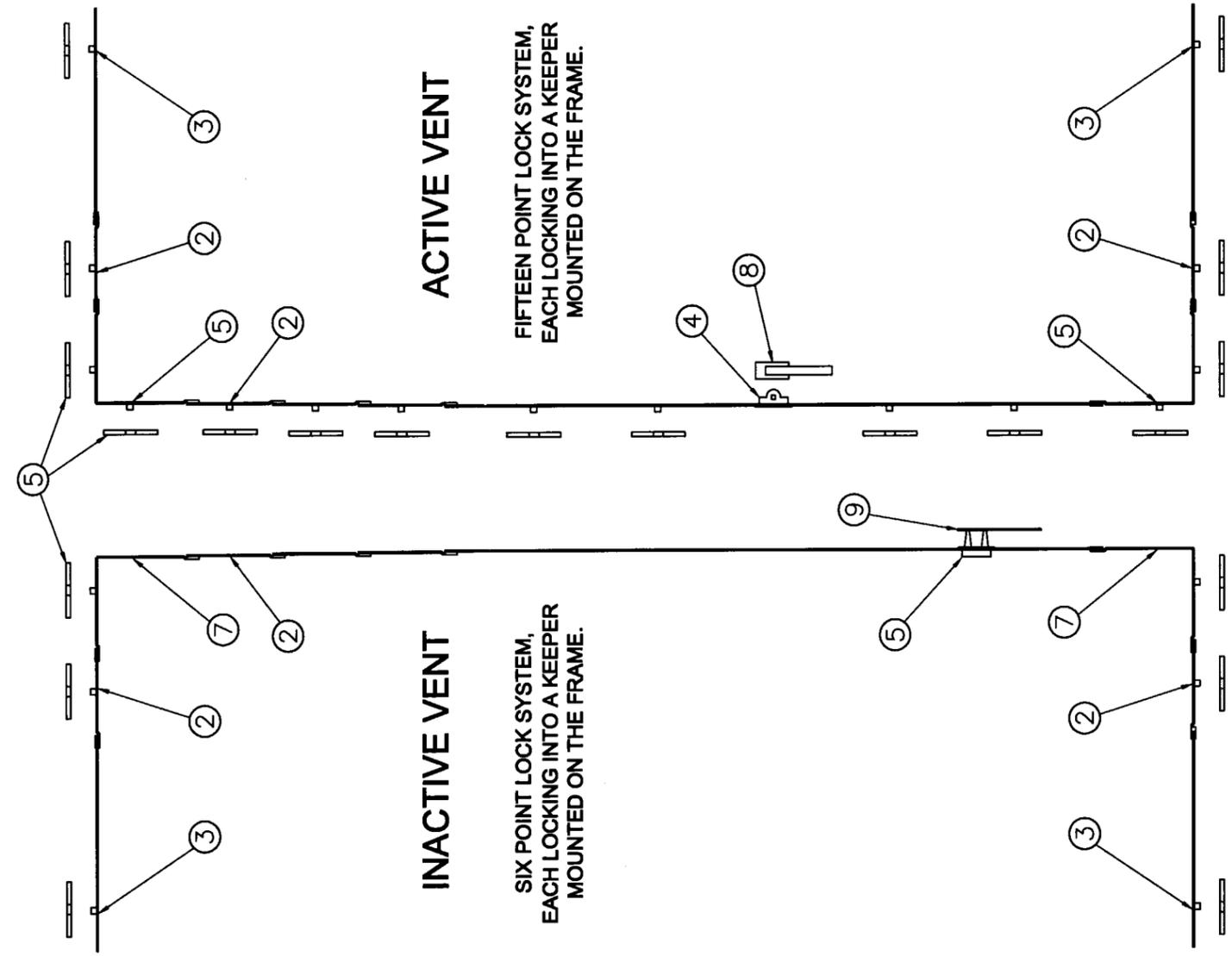
① 2D-20 Adjustable Hinge **NOTE:** REFERED TO AS ④ IN THE CROSS SECTIONS DRAWINGS OF THIS SERIE

HINGES SPACING			
FRAME HEIGHT UP TO	QTY:	DIST. FROM CORNER	O/C MAX.
48 1/8"	2	6 1/8"	27"
69 1/8"	3	6 1/8"	27"
96 1/8"	4	6 1/8"	27"
139 1/2"	5	6 1/8"	30 3/8"

TABLE 1

PART #	QTY.	DESCRIPTION	MATERIAL	DIMENSION	LOCATION
1	Refer to Table 1	Simons Werk Gmgh, Adjustable hinges no. 2D-20	Bichromated Steel (open in) Stainless Steel (open out)	3.346 in. x 2.538 in. x .2324 in.	Refer to Table 1
2	2 per hinge	F.H. Wood screw	Galvanized steel	#8 x 1-1/2 in.	
3	Depends on frame size	PROTOL, Installation Bracket no. PDF-FS-05	Galvanized steel	3.101 in. x 1.181 in. x 0.197in. t.	5-1/4 in. from corners & 14 in. max. o/c, between framing member & buck frame.

PART #	QTY.	DESCRIPTION	MATERIAL	DIMENSION	LOCATION
1	21	FERCO, keeper no. 6-27522-00-0-3	Bi-Chromated steel	N/A	ACTIVE SASH: 3 on top rail, 3 on bottom rail, and 9 on center stile. INACTIVE SASH: 3 on top rail and 3 on bottom rail.
2	6	FERCO, extension arm without bolt no. 8-00650-00-0-3	Bi-Chromated steel	N/A	ACTIVE SASH: 1 on top rail, 1 on bottom rail, and 1 on center stile. INACTIVE SASH: 1 on top rail, 1 on bottom rail, and 1 on center stile.
3	4	FERCO, extension arm with bolt no. 6-26295-00-0-3	Bi-Chromated steel	N/A	ACTIVE SASH: 1 on top rail and 1 on bottom rail. INACTIVE SASH: 1 on top rail and 1 on bottom rail.
4	1	FERCO, Locking cam mechanism no. 6-27459-00-0-3	Bi-Chromated steel	N/A	On ACTIVE SASH, 1 on center stile.
5	1	FERCO, Locking mechanism no. 6-24976-08-0E3	Bi-Chromated steel	N/A	On INACTIVE SASH, 1 on center stile.
6	2	FERCO, Transmission corner no. 6-27459-00-0-3	Bi-Chromated steel	N/A	On ACTIVE SASH, 1 on top corner and 1 on bottom corner.
7	2	FERCO, Transmission corner no. 6-24062-00-0-3	Bi-Chromated steel	N/A	On INACTIVE SASH, 1 on top corner and 1 on bottom corner.
8	1	FERCO, Lever type Handle (surface mounted)	Depends on handle style	N/A	On ACTIVE SASH, 1 on center stile. Its height relative to the bottom sash may vary
9	1	FERCO, Lever type Handle (astragale side mounted)	Bi-Chromated steel	N/A	On INACTIVE SASH, 1 on center stile.



1855 GRIFFIN ROAD, SUITE A-274
DANIA, FL 33004

SERIES 70/83
WOOD CASEMENT WINDOW
LOCKING MECHANISM
METRO DADE COUNTY
IMPACT RESISTANT
PA201, PA202 & PA203

Drawing no.: MQF70-1W

Scale: NONE	Drawn by: E. Fortin
Date drawn: 08/05/98	Date revised: -
File: 1W_lock.dwg	Page: 16 / 19

ENGINEER:

STRUCTURALLY REVIEWED BY:



WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL LIC. NO. 44167

Walter A. Tillit Jr.
3/11/98

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 02-0129-08
Expiration Date DEC. 10, 2006
By *Mamuel Sere*
Miami/Dade Product Control
Division



1855 GRIFFIN ROAD, SUITE A-274
DANIA, FL 33004

SERIES 70/83
WOOD CASEMENT WINDOW
CORNER CONSTRUCTION
METRO DADE COUNTY
IMPACT RESISTANT
PA201, PA202 & PA203

Drawing no.: MQF70-1W
Scale: NONE Drawn by: E. Fortin
Date drawn: 08/05/98 Date revised: -
File: 1W_corner.dwg Page: 17 / 19

ENGINEER:

STRUCTURALLY REVIEWED BY:



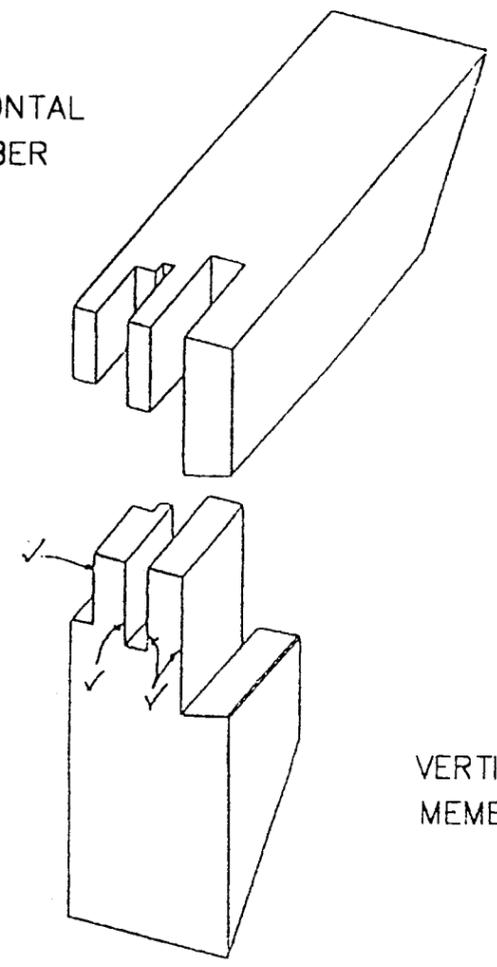
TILLIT TESTING & ENGINEERING COMPANY
8595 NW 36th STREET, STE. 217
MIAMI, FLORIDA 33166

WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL LIC. NO. 44167

[Signature]
9/19/02

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as complying with the Florida
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Acceptance No. 02-0129.08
Expiration Date DEC. 10, 2006
By *[Signature]*
Miami Dade Product Control
Division

HORIZONTAL MEMBER

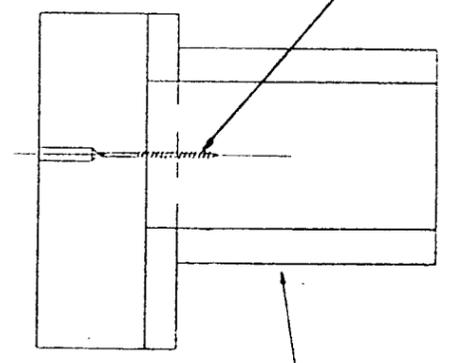


GLUED FACES ①

MULTI-FORKS ASSEMBLY

NOTE: ALL FRAME CORNERS

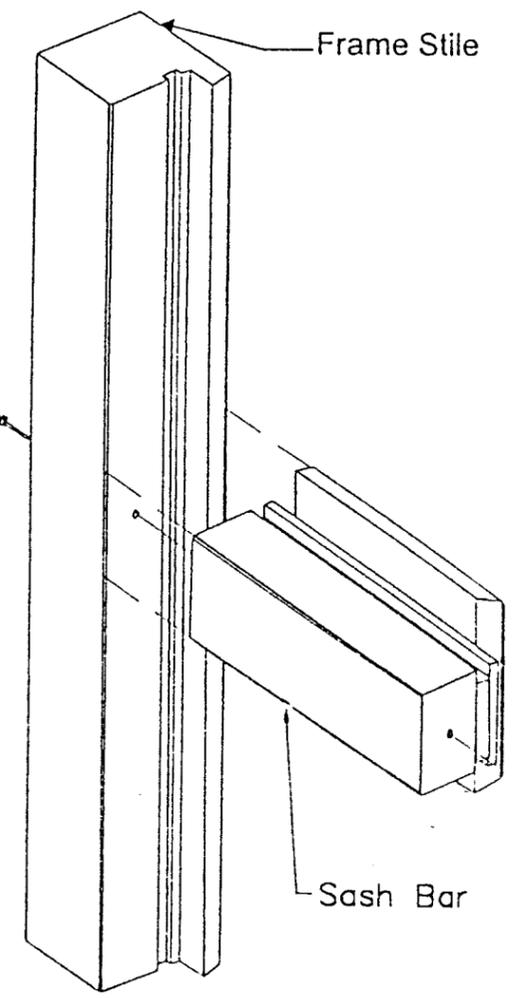
ELEVATION
Inside View



Sash Bar

SASH BARS ASSEMBLY

NOTE: SQUARE CUT AND SCREWED



Frame Stile

Sash Bar

PART #	QTY.	DESCRIPTION	MATERIAL	DIMENSION	LOCATION
1	As needed	Resibois 222 no. 30222-01 type 1 exterior wood glue	Glue	N/A	At shown interfaces.
2	2 per muntin bar	F.H. Wood screw	Galvanized steel	#14 x 2-1/2 in.	Through the frame stile to the center of the sash bar.



1855 GRIFFIN ROAD, SUITE A-274
DANIA, FL 33004

SERIES 70/83
WOOD CASEMENT WINDOW
GLAZING METHOD
METRO DADE COUNTY
IMPACT RESISTANT
PA201, PA202 & PA203

Drawing no.: MQF70-1W

Scale: 1.5=1
Drawn by: E. Fortin

Date drawn: 11/10/98
Date revised: 09/16/02

File: 1W_glaze.dwg
Page: 18 / 19

ENGINEER:

STRUCTURALLY REVIEWED BY:

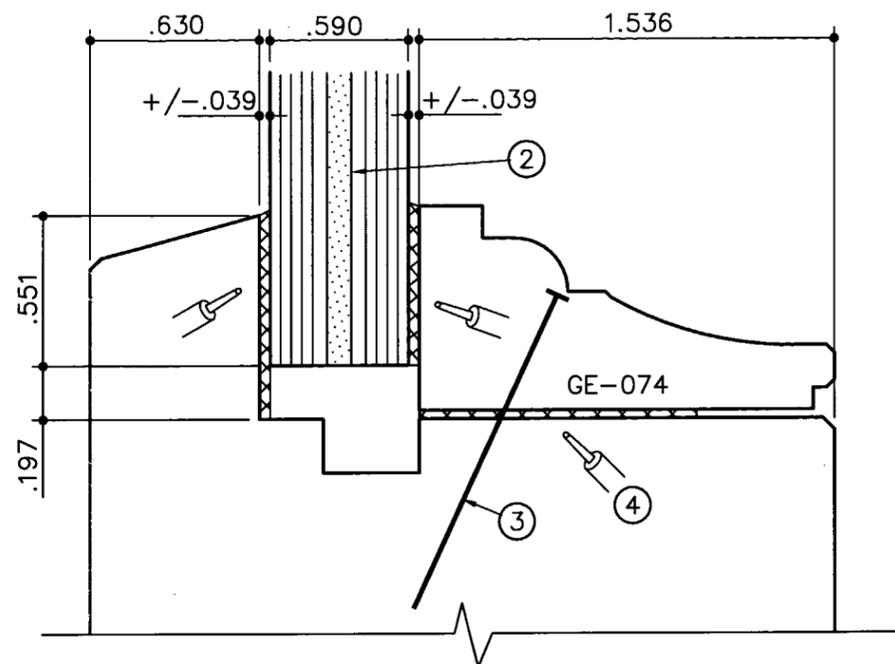


TILLIT TESTING & ENGINEERING COMPANY
6595 NW 36th STREET, STE. 217
MIAMI, FLORIDA 33166

WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL. LIC. NO. 44167

[Signature]
9/19/02

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 02-0129.08
Expiration Date ~~DEC 10, 2006~~
By *[Signature]*
Miami Dade Product Control
Division



WITH LAMINATED GLASS

09/16/02: out



TABLE 2:

TYPE OF GLASS	MAX. PERI. [in.]	MAX. AREA [sq.ft.]
G2: LAMINATED GLASS, Saflex .090 1/4 cl. an.+ 0.090 +1/4 cl. an.	312	23.0
WP: 1"3/4 RAISED WOOD PANEL	151 1/8	8.83

PART #	QTY.	DESCRIPTION	MATERIAL	DIMENSION	LOCATION
1	1	Impact resistant "Safety Plus" glass	5/32 in. Annealed glass & 0.060 in. Polyester resin, both sides of 0.10 in. PET Film.	0.551 in. Glass bite Refer to Table 2	3/16 in. from glass rebate
2	1	Impact resistant Laminated glass	1/4 in. Annealed glass both sides of 0.090 in. Saflex interlayer.	0.551 in. Glass bite Refer to Table 2	3/16 in. from glass rebate
3	Depends on frame size.	SENCO, nails	Galvanized steel	1-1/4 in. gauge 16	2 in. from corners & 10 in. o/c.
4	As needed.	Dow Corning 995 Silicone Structural Adhesive	Silicone	N/A	At shown interfaces.
GE-074	1 per glass edge.	Glazing bead (for 1/2 in. glass thickness)	Mahogany wood	3/4 in. x 1-1/2 in.	Nailed through the sash frame at glass perimeter



1855 GRIFFIN ROAD, SUITE A-274
DANIA, FL 33004

**SERIES 70/83
WOOD CASEMENT WINDOW**

GLAZING METHOD

METRO DADE COUNTY
IMPACT RESISTANT
PA201, PA202 & PA203

Drawing no.: MQF70-1W

Scale: 1.5=1 Drawn by: E. Fortin

Date drawn: 08/07/98 Date revised: -

File: 1W_panel Page: 19 / 19

ENGINEER:

STRUCTURALLY REVIEWED BY:



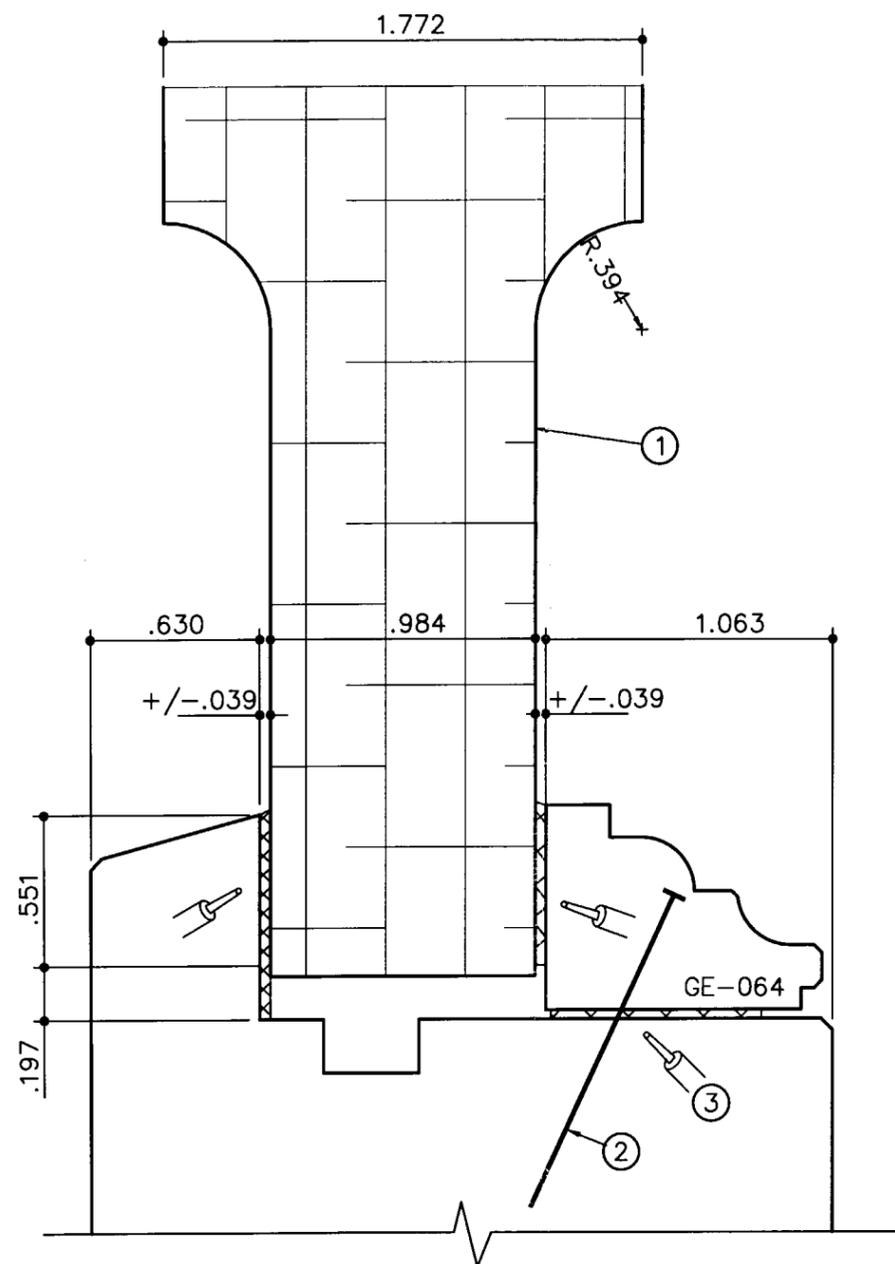
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NOTE: The perimeter of each solid Mahogany wood panel is trimmed to an overall thickness of 1 in.

TABLE 3:

TYPE OF GLASS	MAX. PERI. [in.]	MAX. AREA [sq.ft.]
WP: 1 ³ / ₄ RAISED WOOD PANEL	151 1/8	8.83

PART #	QTY.	DESCRIPTION	MATERIAL	DIMENSION	LOCATION
1	1	MQ, Raised Wood Panel	Mahogany Wood	1-3/4 in. thick. Refer to Table 3	3/16 in. from glass rebate
2	Depends on frame size.	SENCO, Nails	Galvanized steel	1-1/4 in. gauge 16	2 in. from corners & 10 in. o/c.
3	As needed.	Dow Corning 995 Silicone Structural Adhesive	Silicone	N/A	At shown interfaces.
GE-064	1 per panel edge.	MQ, Glazing bead (for 1 in. glass thickness or wood panel)	Mahogany wood	3/4 in. x 1/2 in.	Nailed through sash frame at glass/wood panel perimeter