



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

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

www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

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 Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "JS" Fixed Shaped Inward Mahogany Wood Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. JS-2-IN, titled "JS Series Wood Fixed Windows Sash Inward" Sheets 1 through 12 of 12, dated 01/10/99 and last revised on 05/12/06, prepared by manufacturer, signed and sealed by Walter A. Tillit Jr. 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 Division.

MISSILE IMPACT RATING: Large Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with M.Q. Windows, Montreal, Quebec, Canada 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 & renews** NOA # 99-1228.03 consists of this page 1 and evidence pages E-1 & E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**



J. Gascon
5/26/06

NOA No 05-1004.04
Expiration Date: March 01, 2011
Approval Date: June 20, 2006
Page 1

M. Q. Windows

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **JS-2-IN**, titled "JS Series Wood Fixed Windows Sash Inward" Sheets 1 through 12 of 12, dated 01/10/99 and last revised on 05/12/06, prepared by manufacturer, signed and sealed by Walter A. Tillit Jr. P.E

B. TESTS

1. Test Report No. **HTL-0118-1006-98 (Sp#4 TAS-201/203), HTI-0118-1103-98 ((Sp#1 & Sp#2(TAS-202)) and (Sp#5, TAS-201,202,203), HTL -0118-1298-98(Sp#6, # 7(TAS-201/203)) , HTL-0118-1218-98 (Sp#6 (TAS-201/203))** prepared by Hurricane Testing Laboratories, dated 10/15//98 thru 07-06-99, signed and sealed by Timothy S. Marshall, P.E., for the following tests: 1) Air Infiltration Test, per TAS-202-94
 - 2) Uniform Static Air Pressure Test, Loading per TAS- 202-94
 - 3) Water Resistance Test, per TAS-202-94. (approved for HJ430 sill only, all other sills not approved for water infiltration)
 - 4) Large Missile Impact test, per FBC TAS 201-94
 - 5) Cyclic loading test, per FBC and TAS 203-94
 - 6) Forced Entry Test, per FBC and TAS 202-94along with manufacturers parts and section drawings marked by Hurricane Testing Laboratory Inc. "Submitted under NOA No. 99-1228.03"

C. CALCULATIONS

1. Revised Anchor verification calculations, complying w/ FBC-2004, prepared by Tilteco Inc., dated 09/13/05, signed and sealed by Walter A. Tillit, Jr., P.E.
2. Glazing complies w/ ASTM E-1300-98

D. QUALITY ASSURANCE

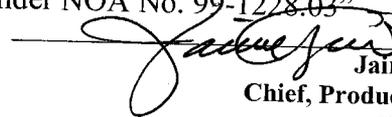
1. Miami Dade Building Code Compliance Office (BCCO)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 01-0205.02, issued to Solutia Inc, for "Saflex / KeepsafeMax interlayer", expiring 05-21-06.

F. STATEMENTS

1. Statement letter of conformance to FBC 2004 dated March 06, 2006, signed & sealed by Walter A. Tillit, P.E.
2. Statement letter of conformance, dated 11-24-1999, signed and sealed by Walter A. Tillit Jr., P. E. "Submitted under NOA No. 99-1228.03"
3. Statement letter of no financial interest, dated January 08, 2001, signed and sealed by Walter A. Tillit Jr., P. E. "Submitted under NOA No. 99-1228.03"


Jaime D. Gascon, P.E.
Chief, Product Control Division
NOA No 05-1004.04
Expiration Date: March 01, 2011
Approval Date: June 20, 2006

M. Q. Windows

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. Statement letter of compliance dated March 1, 1999, issued by Hurricane Testing laboratory, signed and sealed by Timothy S. Marshall, P.E. "Submitted under NOA No. 99-1228.03"
5. Addendum letter dated 04-27-00 for **HTL-0118-1103-98 (Sp#1) and 0118-1006-98(Sp#2)**, prepared by Hurricane Testing Laboratories, signed and sealed by Vinu Abraham, P.E.
"Submitted under NOA No. 99-1228.03"

G. OTHER

1. Notice of Acceptance No. # **99-1228.03, M.Q. Windows, Inc.**, "JS Fixed Shaped Mahogany Windows-Large Missile Impact", approved 03/01/01 and expiring 03/01/06.



Jaime D. Gascon, P.E.
Chief, Product Control Division
NOA No 05-1004.04
Expiration Date: March 01, 2011
Approval Date: June 20, 2006

RECTANGULAR FIXED UNITS

CONFIGURATIONS: O

GENERAL NOTES:

- 1- THIS PRODUCT IS DESIGNED TO COMPLY WITH THE PROVISIONS OF THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE 2004 EDITION OF THE FLORIDA BUILDING CODE WITH THE 2005 SUPPLEMENT.
- 2- THIS PRODUCT IS LARGE MISSILE IMPACT RESISTANT AND HAS BEEN TESTED IN ACCORDANCE WITH THE HIGH VELOCITY HURRICANE ZONE PROTOCOLS TAS201, 202 AND 203. NO SHUTTERS ARE REQUIRED.
- 3- WOOD BUCKS (BY OTHERS) AND OPENINGS MUST BE DESIGNED BY THE PROFESSIONAL OF RECORD TO PROPERLY TRANSFER WIND LOADS TO THE MAIN STRUCTURE.
- 4- SPECIFIED ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
- 5- IN ORDER TO VERIFY THAT ANCHORS FOR THIS PRODUCT WERE NOT OVERSTRESSED AS TESTED, A 33% ALLOWABLE STRESS INCREASE WAS NOT USED IN THEIR ANALYSIS. HOWEVER, A LOAD DURATION FACTOR OF Cd = 1.6 WAS USED TO VERIFY THEIR SPACING IN WOOD SUBSTRATES.

VIEWED FROM THE INSIDE
WOOD: Mahogany

Information on this page applies to cross sections 1 & 20 (sash "inward") ONLY

Frame Size vs d.l.o. relation is:
Long d.l.o.= long frame dimension - 9"
Short d.l.o.=short Frame dimension- 9"

DESIGN PRESSURE

Positive Pressure: +58 psf
Negative Pressure -68 psf

NOTE: Refer to table 1 for minimum and maximum sizes width (FW) & height (FH)

NOTE:
See sections 1 and 20 on pages 6 & 7 respectively.

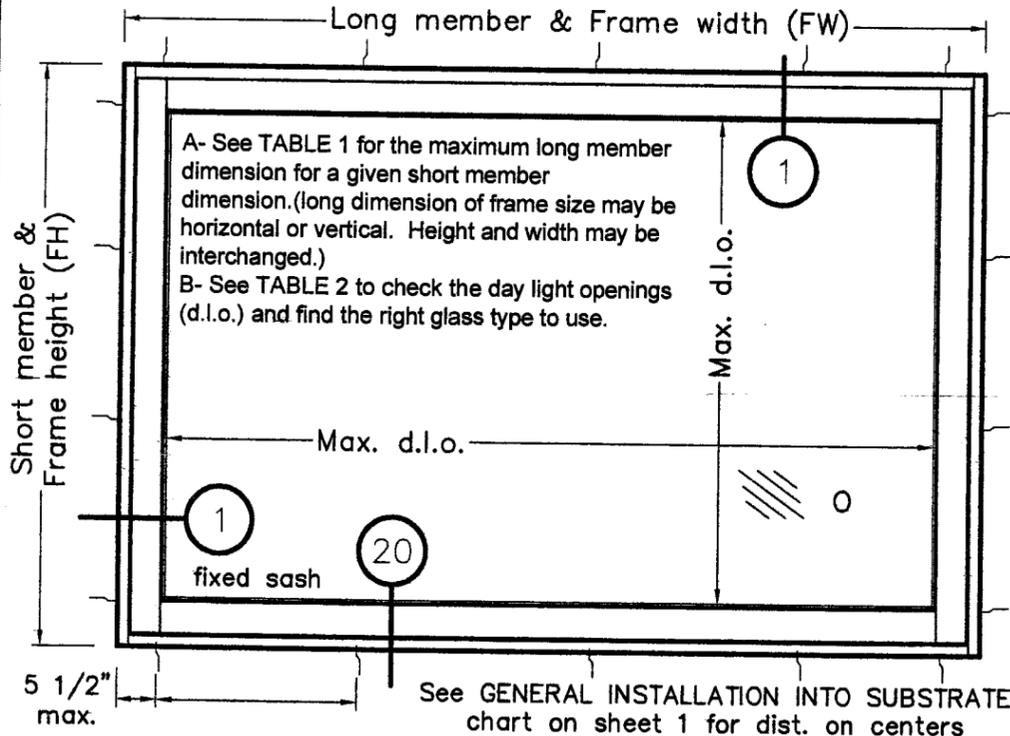


TABLE 2
GLASS TYPES FOR FRAME DIMENSIONS OF TABLE 1 OR FOR BASIC RECTANGLES GIVEN ON SHEETS 2, 3, 4 AND 5 OF THIS DRAWING

If, for a given long member d.l.o., the actual short member daylight opening exceeds the maximum dimension indicated on table 2, then

TYPE 2 heat strenghtened laminated glass
[3/16" HS - .09" PVB interlayer, Saflex III G by Solutia - 3/16" HS]
OR TYPE 3 full tempered laminated glass
[3/16" FT - .09" PVB interlayer, Saflex III G by Solutia - 3/16" FT]
MUST BE USED

Maximum daylight opening for type 1 laminated glass
[3/16" AN - .09" PVB interlayer, Saflex III G by Solutia - 3/16" HS]

Given Long member d.l.o. up to (in.)	Max. short member d.l.o. (in.)	Given Long member d.l.o. up to (in.)	Max. short member d.l.o. (in.)
47 1/4	47.244	90 1/2	28.150
51	41.339	94 1/2	27.953
55	38.386	98 1/2	27.559
59	36.220	102 1/4	27.362
63	34.055	106 1/4	26.969
66	32.480	110 1/4	26.772
70 3/4	31.496	114	26.575
74 3/4	30.512	118	26.378
78 3/4	29.528	122	26.220
82 1/2	28.937	126	26.102
86 1/2	28.543	130	25.984

GENERAL INSTALLATION INTO SUBSTRATE

Using PDF-FS-05/D Inst. Bracket

Fastener	Into 2x wood buck		Into concrete	
	max. o/c	min. emb.	max. o/c	min. emb.
(1) 1/4" x 2 3/4" Elco/Textron Tapcon screws			10 1/2"	1 1/4"
(2) #12 x 1 1/2" wood screw	11"	1 1/4"		

Direct Mount (At sill only)

Fastener	Into 2x wood buck		Into concrete	
	max. o/c	min. emb.	max. o/c	min. emb.
(1) 1/4" x 2 3/4" Elco/Textron Tapcon screws			6"	1 1/4"
(1) #14 x 2" wood screw	4"	1 1/4"		

-Materials, but not limited to steel & steel screws that come in contact with other dissimilar materials shall meet with section 2003.8.4 of the Florida Building Code.

TABLE 1
MAXIMUM SHORT & LONG FRAME DIMENSIONS FOR RECTANGULAR UNITS

GIVEN FRAME SHORT MEMBER dimension (in.) min - max.	MAX. FRAME LONG MEMBER dimension (in.) max.
35 - 40.00	139.000
34 - 41.49	134.000
33 - 43.10	129.000
32 - 44.04	124.000
31 - 44.56	119.000
30 - 45.17	114.000
29.68 - 45.375	112.375
0 - 45.38	112.374
0 - 46.00	108.167
0 - 47.00	102.447
0 - 48.00	97.783
0 - 49.00	93.927
0 - 50.00	90.703
0 - 51.00	87.983
0 - 52.00	85.672
0 - 53.00	83.695
0 - 54.00	81.997
0 - 55.00	80.533
0 - 56.00	79.267
0 - 60.00	75.690
0 - 64.00	73.719
0 - 68.00	72.747
0 - 70.00	72.526
0 - 72.00	72.440
0 - 72.438	72.438

GENERAL INSTALLATION NOTES

All PDF-FS-05D Installation brackets screwed to the window frame using (2) #10 x 1" a.t. wood screws w/ 7/8" min. embedment.

Spacing: All fasteners spacing is 5 1/2" from corners and o/c as specified in GENERAL INSTALLATION INTO SUBSTRATE chart on sheet 1.

Min. edge distance is 2 1/2" for concrete fasteners.

Shim Space: 3/8" MAX. @ head, jambs & sill. Use std shims behind as required.



1855 GRIFFIN ROAD,
SUITE A-271
DANIA, FL 33004

JS SERIES WOOD FIXED WINDOWS SASH INWARD

Drawing no.: JS-2-IN

Scale: NONE

Date drawn: 01/10/99

File: JS-2-IN

Drawn by: S. Marcotte

Date revised: 05/12/06

Page: 1 / 12

STRUCTURALLY REVIEWED BY:
WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL. LIC.NO. 44167

Walter A. Tillit Jr.
MAY 17 2006



TILLIT TESTING & ENGINEERING COMPANY
6355 NW 36th STREET, STE. 305
MIAMI, FLORIDA 33166
FL. E.B. LICENSE No. 0006719

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 05-1004.04
Expiration Date 03/01/11
By *Walter A. Tillit Jr.*
Miami Branch Product Control
Division

RECTANGULAR FIXED UNITS

CONFIGURATIONS: 0

MAX. FW & FH AS INDICATED

Information on this page applies to cross sections 1 & 21 (sash "inward") ALUMINUM THRESHOLD ONLY

VIEWED FROM THE INSIDE
WOOD: Mahogany

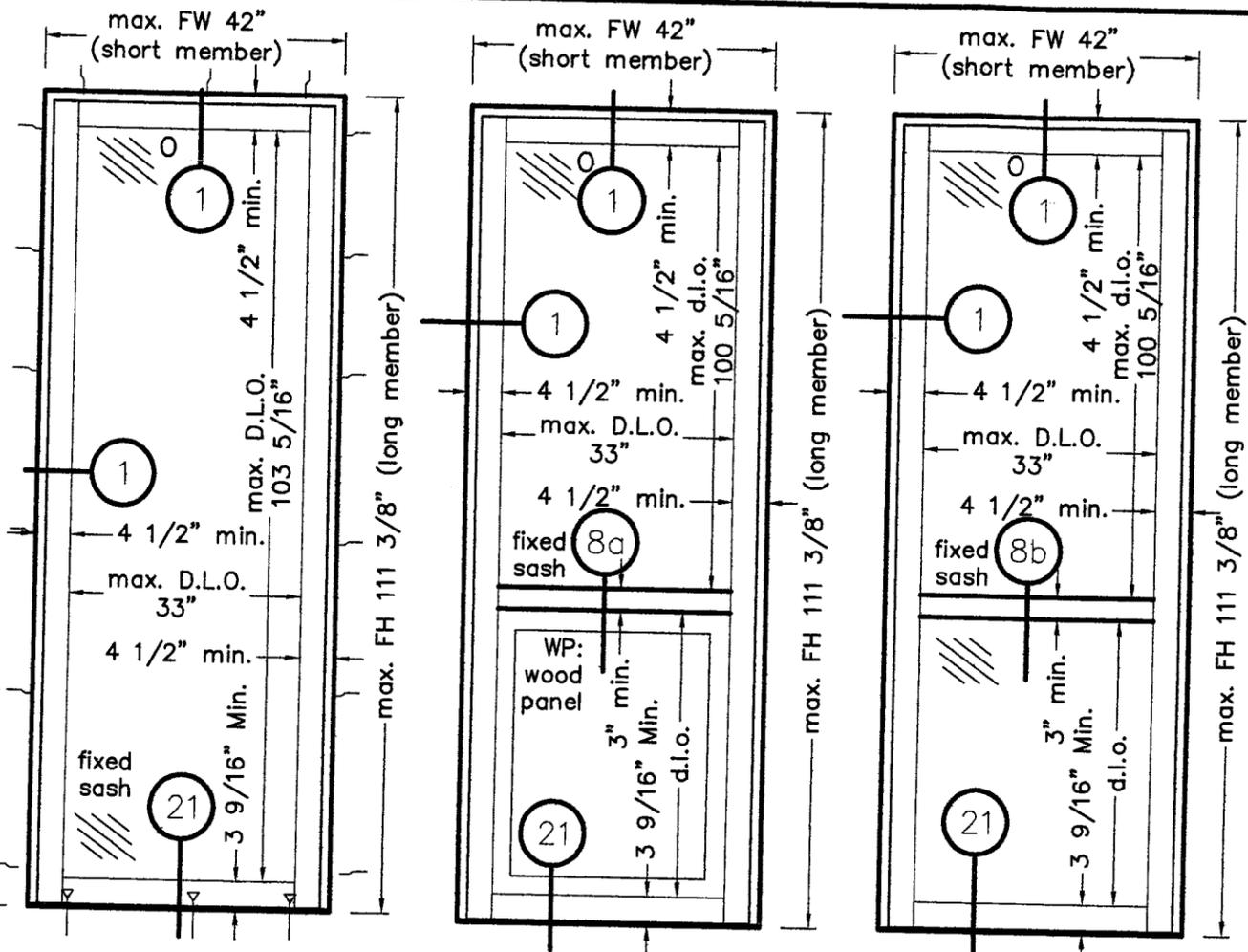
DESIGN PRESSURE

Positive Pressure: +58 psf
Negative Pressure: -68 psf

maximum frame width (FW) and height (FH) as indicated
NO SHUTTERS ARE REQUIRED.

See GENERAL INSTALLATION INTO SUBSTRATE chart on sheet 1 for dist. on centers

5 1/2" max.



TYPE OF GLASS: SINGLE, 15/32" LAMINATED

For sizes shown on table 2, sheet 11:
TYPE 1, MADE OF:
3/16"(AN)-0.090" PVB Saflex III G interlayer
by Solutia-3/16"(HS)
For sizes over those on table 2:
TYPE 2, MADE OF:
3/16"(HS)-0.090" PVB Saflex III G interlayer
by Solutia-3/16"(HS)
OR TYPE 3, MADE OF:
3/16"(FT)-0.090" PVB Saflex III G interlayer
by Solutia-3/16"(FT)

WP: 1 3/4" RAISED WOOD PANEL

Solid Mahogany, MAX. D.L.O. AREA: 7.81 sqf.
See detail on sheet 9

Spacing: All fasteners spacing is 5 1/2" from corners and o/c as specified in GENERAL INSTALLATION INTO SUBSTRATE chart on sheet 1.

Shim Space: 3/8" MAX. @ head, jambs & sill.
Use std shims behind as required. Use 4 x brackets at each end of an astragal meeting.

Min. edge distance is 2 1/2" for masonry fasteners.



1855 GRIFFIN ROAD,
SUITE A-271
DANIA, FL 33004

JS SERIES WOOD FIXED WINDOWS SASH INWARD

Drawing no.:	JS-2-IN
Scale:	None
Drawn by:	S. Marcotte
Date drawn:	01/10/99
Date revised:	05/12/06
File:	JS-2-IN
Page:	2 / 12

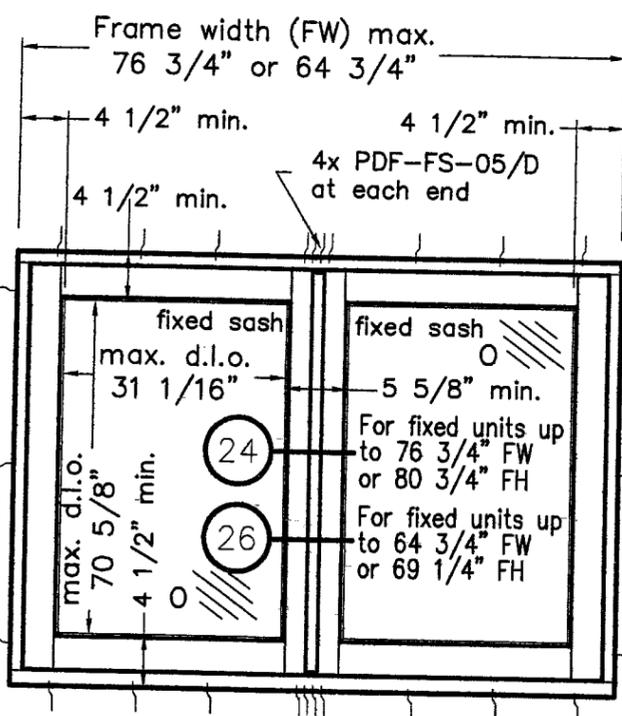
STRUCTURALLY REVIEWED BY:
WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL. LIC. NO. 44167

[Signature]
MAY 17 2006



TILLIT TESTING & ENGINEERING COMPANY
6355 NW 36th STREET, STE. 305
MIAMI, FLORIDA 33166
FL E.B. LICENSE No. 0006719

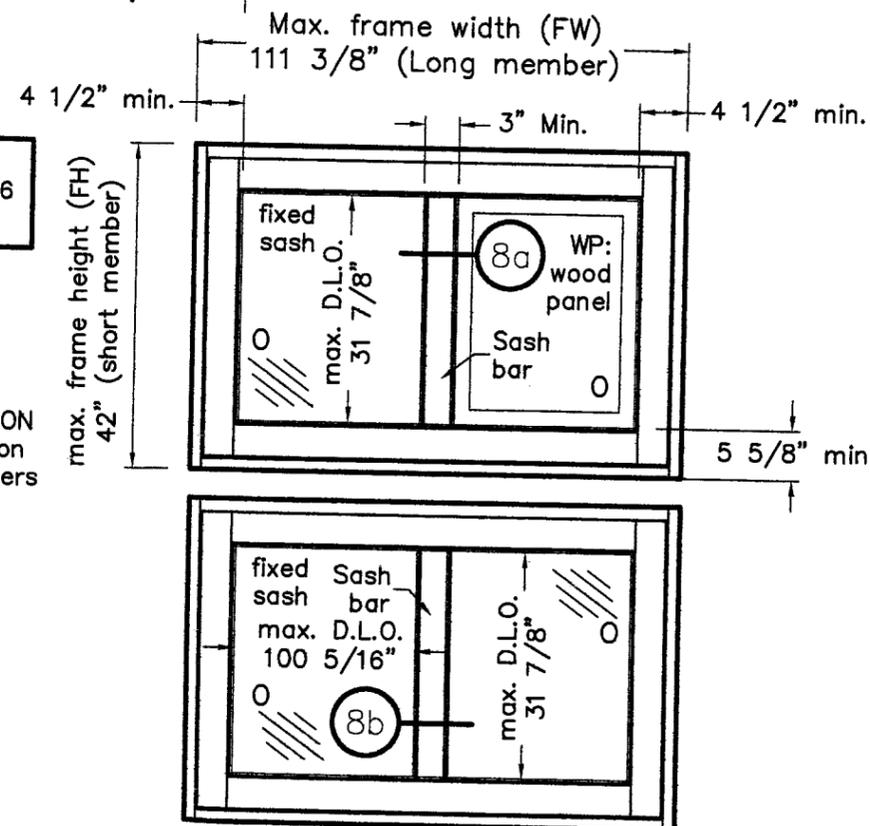
PRODUCT REVISED
in complying with the Florida
Building Code
Acceptance No. 05-1004.04
Expiration Date 03/01/11
[Signature]
Miami Code Product Control
Division



OPTIONAL: FIXED ASTRAGAL

NOTE:
See sections 1, 8a, 8b, 21, 24 and 26
on pages 6 & 7 respectively.

See GENERAL INSTALLATION INTO SUBSTRATE chart on sheet 1 for dist. on centers



OPTIONAL: SASH BAR

TRIANGULAR FIXED SHAPES

CONFIGURATIONS: O

VIEWED FROM THE INSIDE
WOOD: Mahogany

DESIGN PRESSURE

Positive Pressure: +58 psf
Negative Pressure: -68 psf

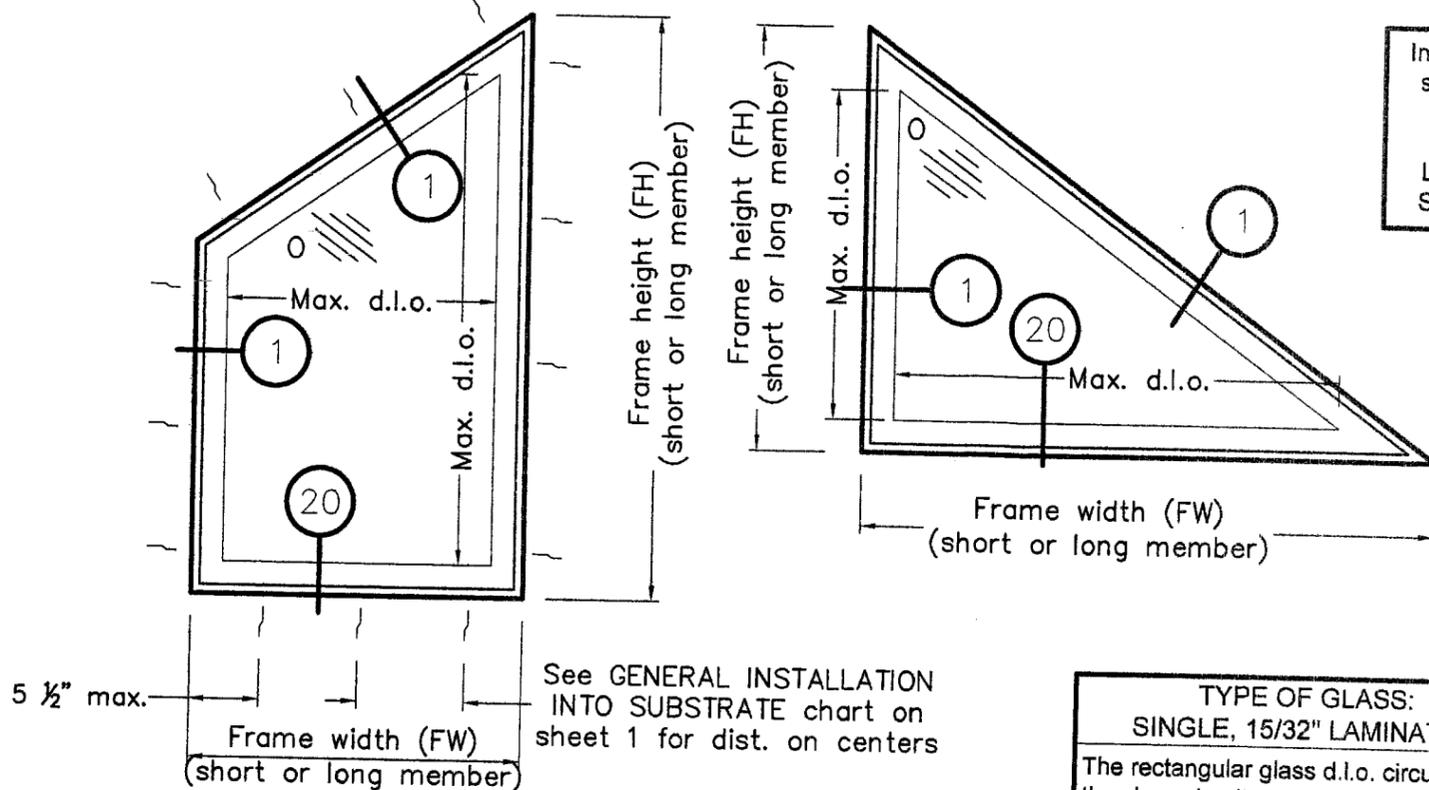
NOTE: Refer to basic rectangles for minimum and maximum sizes width (FW) & height (FH)
NO SHUTTERS ARE REQUIRED.

TO DETERMINE THE MAX. FW AND FH: SHAPES ON THIS PAGE MUST BE INSCRIBED INTO ANY ONE OF THE FOLLOWING BASIC RECTANGLES

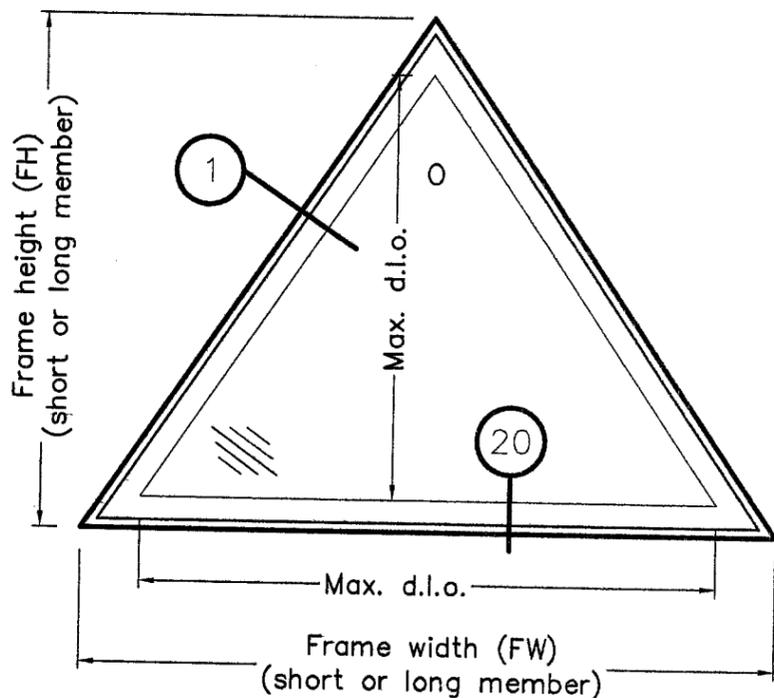
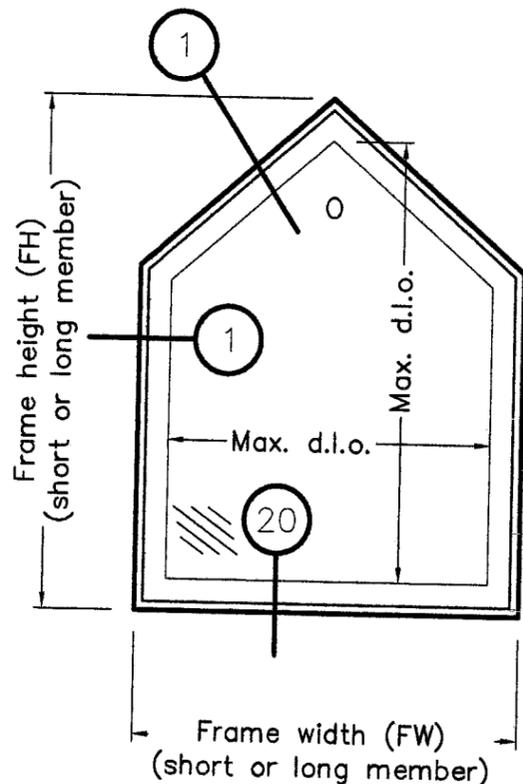
42" (FW) x 111 3/8" (FH)

111 3/8" (FW) x 42" (FH)

72 7/16" (FW) x 72 7/16" (FH)



NOTE:
See sections 1 and 20 on pages 6 & 7 respectively.



Information on this page applies to cross sections 1 & 20 (sash "inward") ONLY

Frame Size vs d.l.o. relation is:
Long d.l.o.= long frame dimension - 9"
Short d.l.o.=short Frame dimension - 9"

TYPE OF GLASS:

SINGLE, 15/32" LAMINATED
The rectangular glass d.l.o. circumscribing the shaped unit must be taken and checked into table 2, sheet 11/12

For sizes shown on table 2, sheet 11:
TYPE 1, MADE OF: 3/16" (AN) - 0.090" PVB Saflex III G interlayer by Solutia-3/16"(HS)

For sizes over those on table 2:
TYPE 2, MADE OF: 3/16"(HS) - 0.090" PVB Saflex III G interlayer by Solutia-3/16"(HS) OR

TYPE 3, MADE OF: 3/16" (FT) - 0.090" PVB Saflex III G interlayer by Solutia-3/16"(FT)

WP: 1 3/4" RAISED WOOD PANEL

Solid Mahogany, MAX. D.L.O.
AREA: 7.81 sqf. See detail on sheet 9

Spacing: All fasteners spacing is 5 1/2" from corners and o/c as specified in GENERAL INSTALLATION INTO SUBSTRATE chart on sheet 1.

Shim Space: 3/8" MAX. @ head, jambs & sill. Use std shims behind as required.

Min. edge distance is 2 1/2" for masonry fasteners.



1855 GRIFFIN ROAD,
SUITE A-271
DANIA, FL 33004

JS SERIES WOOD FIXED WINDOWS SASH INWARD

Drawing no.:	JS-2-IN
Scale:	NONE
Date drawn:	01/10/99
File:	JS-2-IN
Drawn by:	S. Marcotte
Date revised:	05/12/06
Page:	3/ 12

STRUCTURALLY REVIEWED BY:
WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL. LIC.NO. 44167

[Signature]
MAY 17 2006



TILLIT TESTING & ENGINEERING COMPANY
6355 NW 36th STREET, STE. 305
MIAMI, FLORIDA 33166
FL E.B. LICENSE No. 0006719

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 05-1004.04
Expiration Date 03/01/11
[Signature]
Miami Metro Product Control
Division

ARCHED FIXED SHAPES

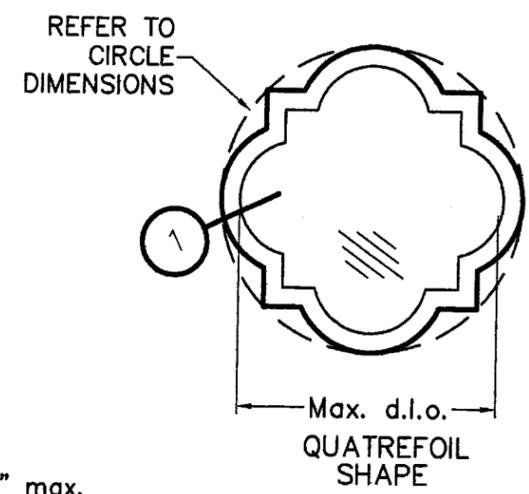
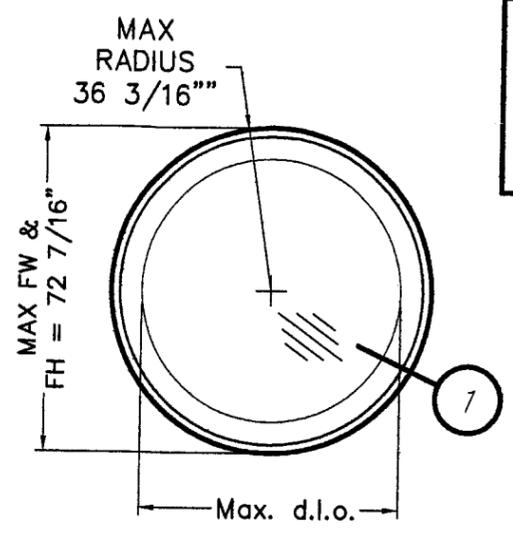
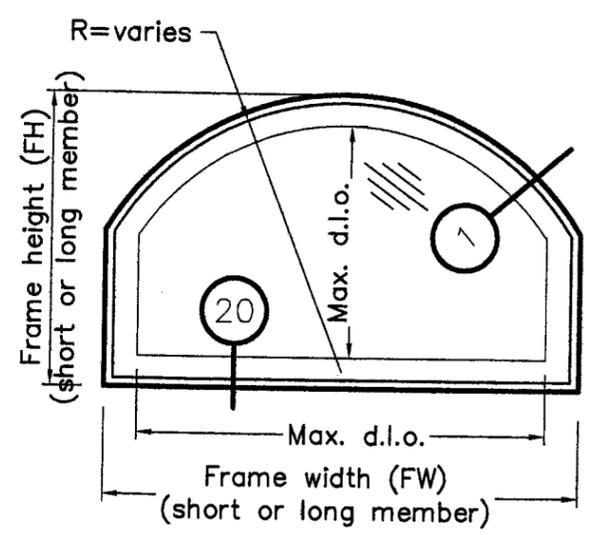
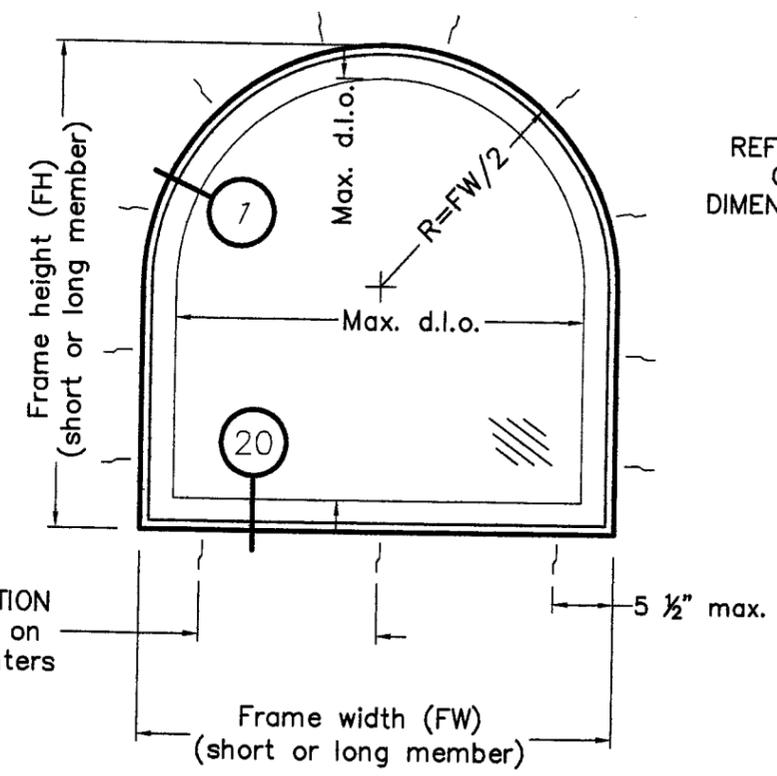
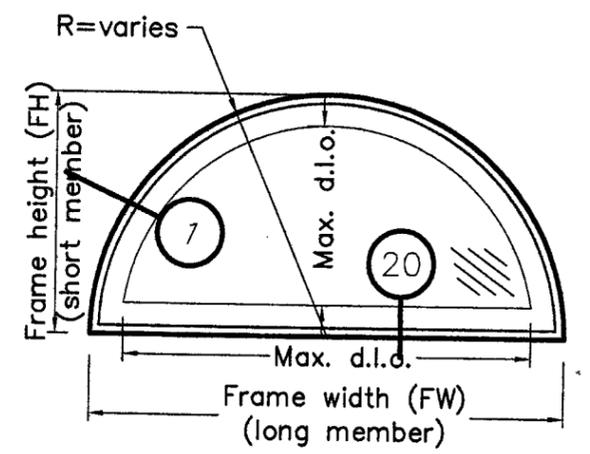
CONFIGURATIONS: O

VIEWED FROM THE INSIDE
WOOD: Mahogany

DESIGN PRESSURE
Positive Pressure: +58 psf Negative Pressure -68 psf
NOTE: Refer to basic rectangles for minimum and maximum sizes width (FW) & height (FH) NO SHUTTERS ARE REQUIRED.

TO DETERMINE THE MAX. FW AND FH: SHAPES ON THIS PAGE MUST BE INSCRIBED INTO ANY ONE OF THE FOLLOWING BASIC RECTANGLES
42" (FW) x 111 3/8" (FH)
111 3/8" (FW) x 42" (FH)
72 7/16" (FW) x 72 7/16" (FH)
76 3/4" (FW) x 58 1/2" (FH)

See GENERAL INSTALLATION INTO SUBSTRATE chart on sheet 1 for dist. on centers



Information on this page applies to cross sections 1 & 20 (sash "inward") ONLY

Frame Size vs d.i.o. relation is:
Long d.i.o.= long frame dimension - 9"
Short d.i.o.=short Frame dimension- 9"

NOTE:
See sections 1 and 20 on pages 6 & 7 respectively.

TYPE OF GLASS: SINGLE, 15/32" LAMINATED
The rectangular glass d.i.o. circumscribing the shaped unit must be taken and checked into table 2, sheet 11/12
For sizes shown on table 2, sheet 11: TYPE 1, MADE OF: 3/16" (AN) - 0.090" PVB Saflex III G interlayer by Solutia-3/16"(HS)
For sizes over those on table 2: TYPE 2, MADE OF: 3/16"(HS) - 0.090" PVB Saflex III G interlayer by Solutia-3/16"(HS) OR TYPE 3, MADE OF: 3/16" (FT) - 0.090" PVB Saflex III G interlayer by Solutia-3/16"(FT)
WP: 1 3/4" RAISED WOOD PANEL
Solid Mahogany, MAX. D.I.O. AREA: 7.81 sqf. See detail on sheet 9

Spacing: All fasteners spacing is 5 1/2" from corners and o/c as specified in GENERAL INSTALLATION INTO SUBSTRATE chart on sheet 1.

Shim Space: 3/8" MAX. @ head, jambs & sill. Use std shims behind as required.

Min. edge distance is 2 1/2" for masonry fasteners.

mq.
WINDOWS
OF EUROPE AND THE AMERICAS

1855 GRIFFIN ROAD,
SUITE A-271
DANIA, FL 33004

JS SERIES WOOD FIXED WINDOWS SASH INWARD

Drawing no.: JS-2-IN	Drawn by: S. Marcotte
Scale: NONE	Date revised: 05/12/06
Date drawn: 01/10/99	Page: 4 / 12
File: JS-2-IN	

STRUCTURALLY REVIEWED BY:
WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL. LIC.NO. 44167

[Signature]
MAY 17 2006

TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY
6355 NW 36th STREET, STE. 305
MIAMI, FLORIDA 33166
FL E.B. LICENSE No. 0006719

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 05-1004-04
Expiration Date 03/01/11

[Signature]
Struct. Engr. Walter A. Tillit Jr.
P.E.

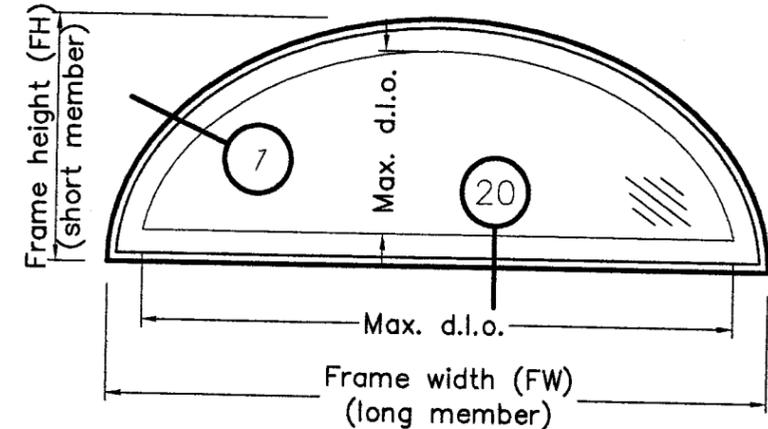
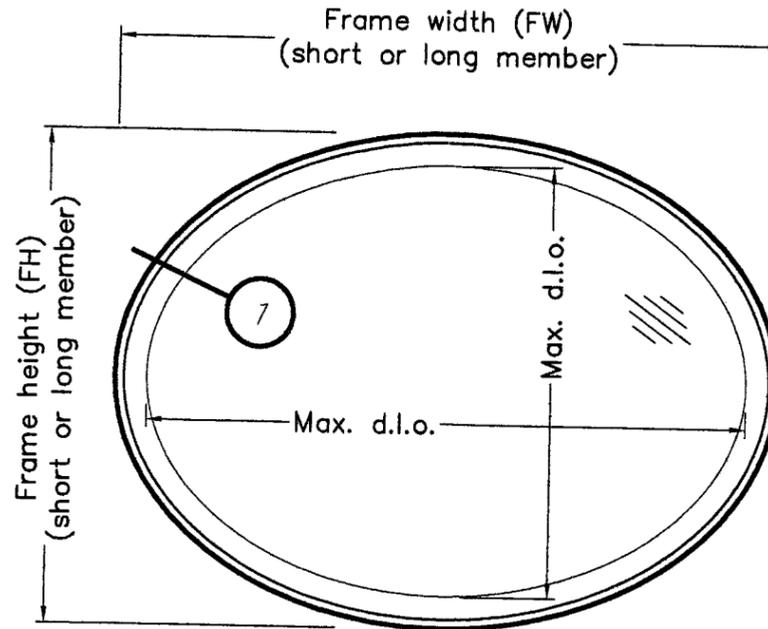
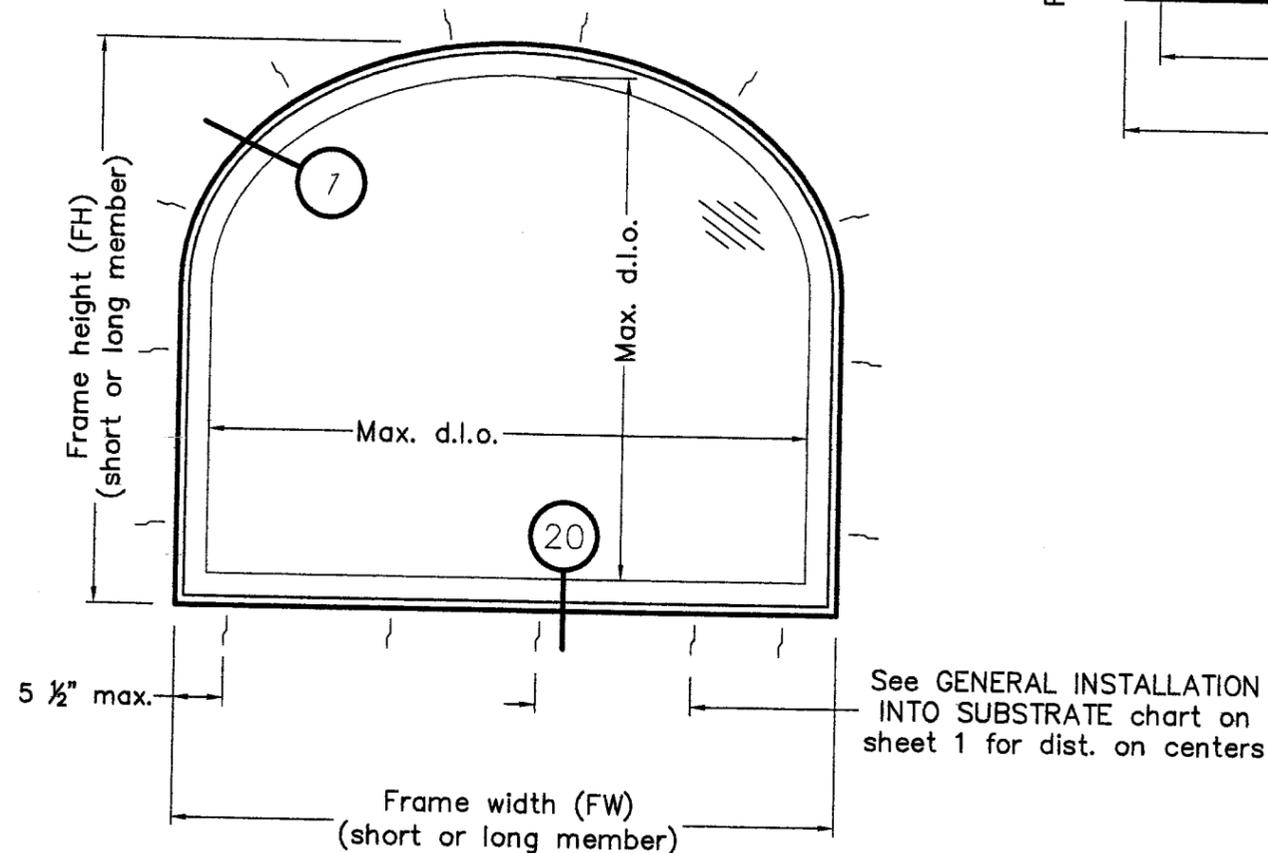
OVAL FIXED SHAPES

CONFIGURATIONS: O

VIEWED FROM THE INSIDE
WOOD: Mahogany

DESIGN PRESSURE
Positive Pressure: +58 psf Negative Pressure -68 psf
NOTE: Refer to basic rectangles for minimum and maximum sizes width (FW) & height (FH) NO SHUTTERS ARE REQUIRED.

TO DETERMINE THE MAX. FW AND FH: SHAPES ON THIS PAGE MUST BE INSCRIBED INTO ANY ONE OF THE FOLLOWING BASIC RECTANGLES
42" (FW) x 111 3/8" (FH)
111 3/8" (FW) x 42" (FH)
72 7/16" (FW) x 72 7/16" (FH)
76 3/4" (FW) x 58 1/2" (FH)



TYPE OF GLASS:
SINGLE, 15/32" LAMINATED
The rectangular glass d.i.o. circumscribing the shaped unit must be taken and checked into table 2, sheet 11/12
For sizes shown on table 2, sheet 11:
TYPE 1, MADE OF: 3/16" (AN) - 0.090" PVB Saflex III G interlayer by Solutia-3/16"(HS)
For sizes over those on table 2:
TYPE 2, MADE OF: 3/16"(HS) - 0.090" PVB Saflex III G interlayer by Solutia-3/16"(HS) OR
TYPE 3, MADE OF: 3/16" (FT) - 0.090" PVB Saflex III G interlayer by Solutia-3/16"(FT)
WP: 1 3/4" RAISED WOOD PANEL
Solid Mahogany, MAX. D.L.O. AREA: 7.81 sqf. See detail on sheet 9

Information on this page applies to cross sections 1&20 (sash "inward") ONLY

Frame Size vs d.i.o. relation is:
Long d.i.o.= long frame dimension - 9"
Short d.i.o.=short Frame dimension- 9"

NOTE:
See sections 1 and 20 on pages 6 & 7 respectively.

Spacing: All fasteners spacing is 5 1/2" from corners and o/c as specified in GENERAL INSTALLATION INTO SUBSTRATE chart on sheet 1.

Shim Space: 3/8" MAX. @ head, jambs & sill. Use std shims behind as required.

Min. edge distance is 2 1/2" for masonry fasteners.

mq
WINDOWS
OF EUROPE AND THE AMERICAS

1855 GRIFFIN ROAD,
SUITE A-271
DANIA, FL 33004

JS SERIES WOOD FIXED WINDOWS SASH INWARD

Drawing no.: JS-2-IN	Drawn by: S. Marcotte
Scale: NONE	Date revised: 05/12/06
Date drawn: 01/10/99	Page: 5 / 12
File: JS-2-IN	

STRUCTURALLY REVIEWED BY:
WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL. LIC.NO. 44167

[Signature]
MAY 17 2006

TILTECO INC.

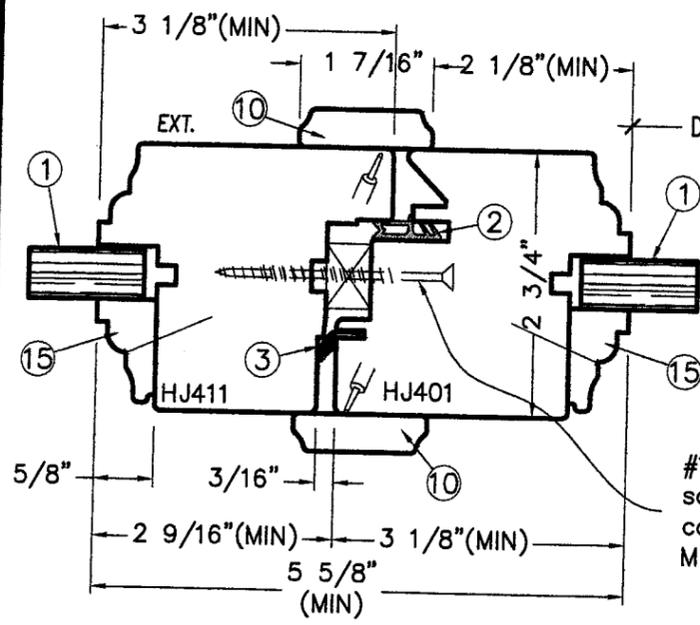
TILLIT TESTING & ENGINEERING COMPANY
6355 NW 36th STREET, STE. 305
MIAMI, FLORIDA 33166
FL E.B. LICENSE No. 0006719

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 05-1004.04
Expiration Date 03/01/11

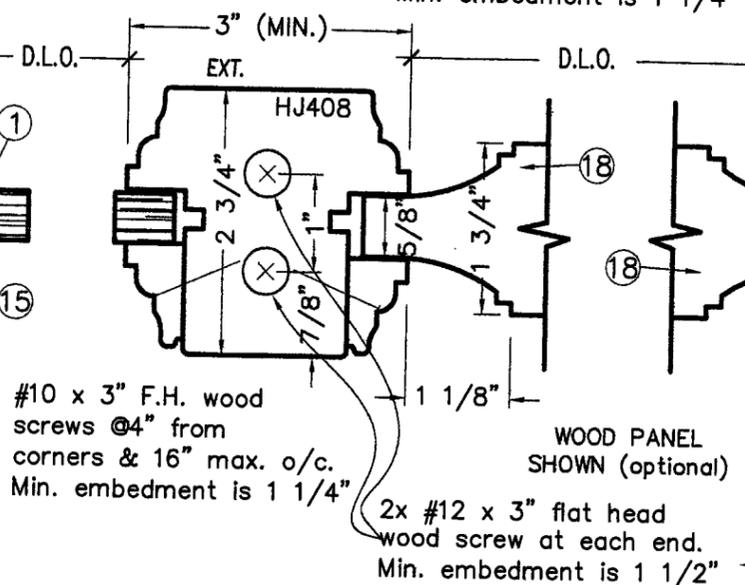
By *[Signature]*
National Insulation Product Control
Division

FOR WINDOWS UP TO
64 3/4" FW OR 69 1/4" FH

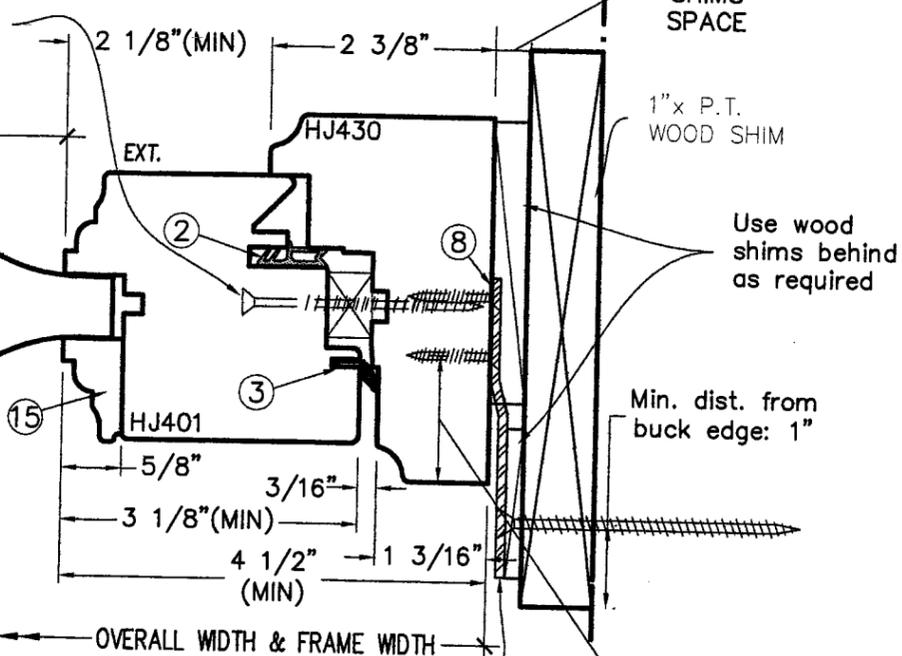
26 FIXED ASTRAGAL
sash -inward



8a horizontal or vertical SASH BAR w/ wood panel (Optional)

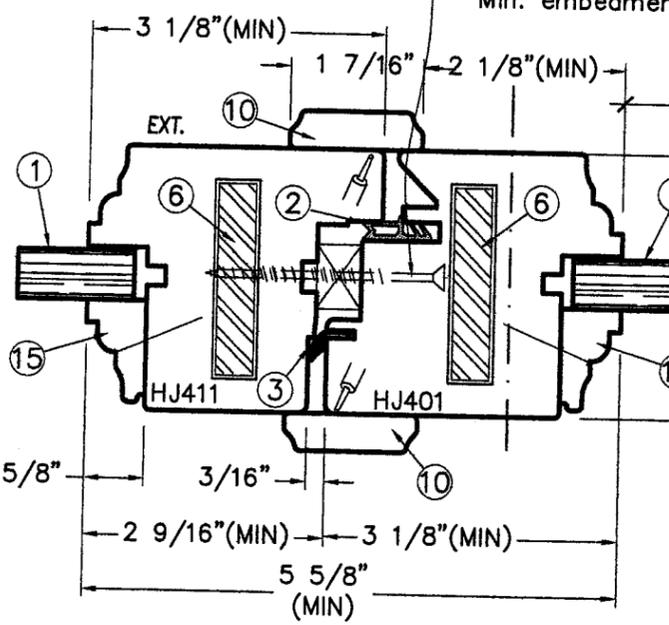


1 JAMB, sash inward (1x & INSTALLATION BRACKET)



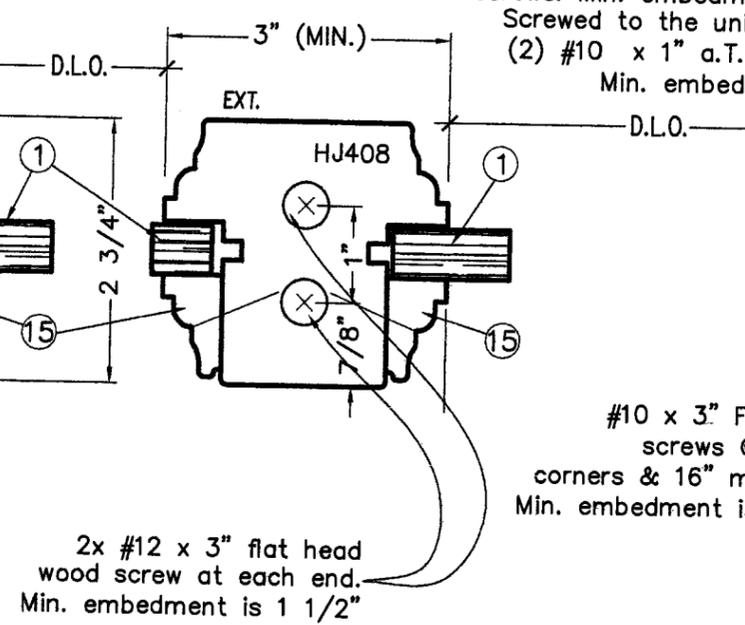
FOR WINDOWS UP TO
76 3/4" FW OR 80 3/4" FH

24 FIXED ASTRAGAL
sash inward



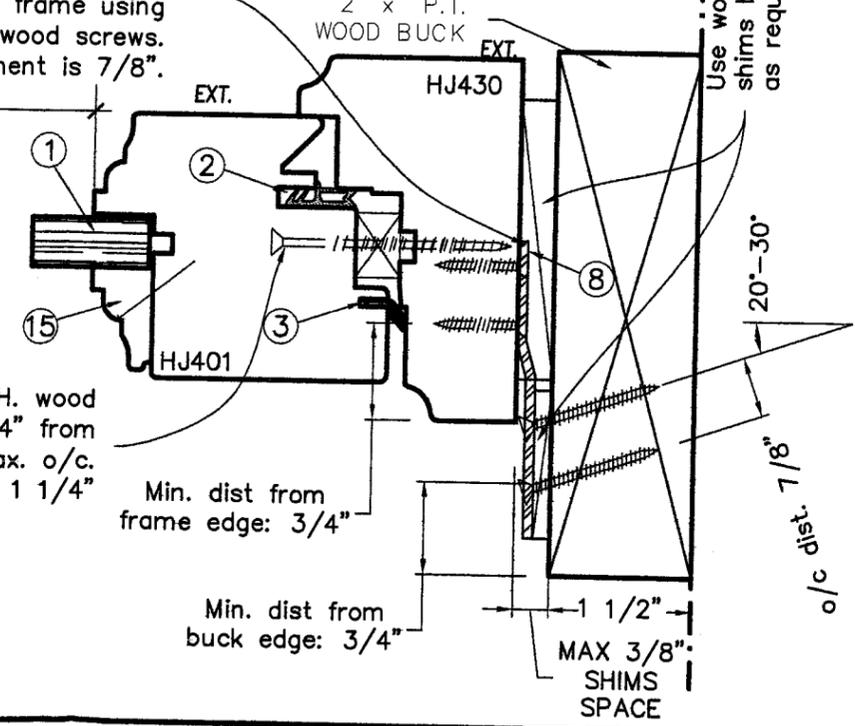
#10 x 3" F.H. wood screws @4" from corners & 16" max. o/c. Min. embedment is 1 1/4"

8b horizontal or vertical SASH BAR (Optional)



Installation bracket PDF-FS-05/D screwed @ max. 11" o/c, to the buck frame using (2) #12 x 1 1/2" all threaded (a.T.) wood screws. Min. embedment is 1 1/4". Screwed to the unit frame using (2) #10 x 1" a.T. wood screws. Min. embedment is 7/8".

1 JAMB, sash -inward (2x & INSTALLATION BRACKET)



NOTE: Clear "Spectrem 2" silicone sealant at shown interfaces NUMBERS ARE REFERRING TO THE ASSEMBLY LISTS ON PAGES 9 TO 11



1855 GRIFFIN ROAD,
SUITE A-271
DANIA, FL 33004

JS SERIES
WOOD FIXED WINDOWS
SASH INWARD

Drawing no.: JS-2-IN	
Scale: NONE	Drawn by: S. Marcotte
Date drawn: 01/10/99	Date revised: 05/12/06
File: JS-2-IN	Page: 6 / 12

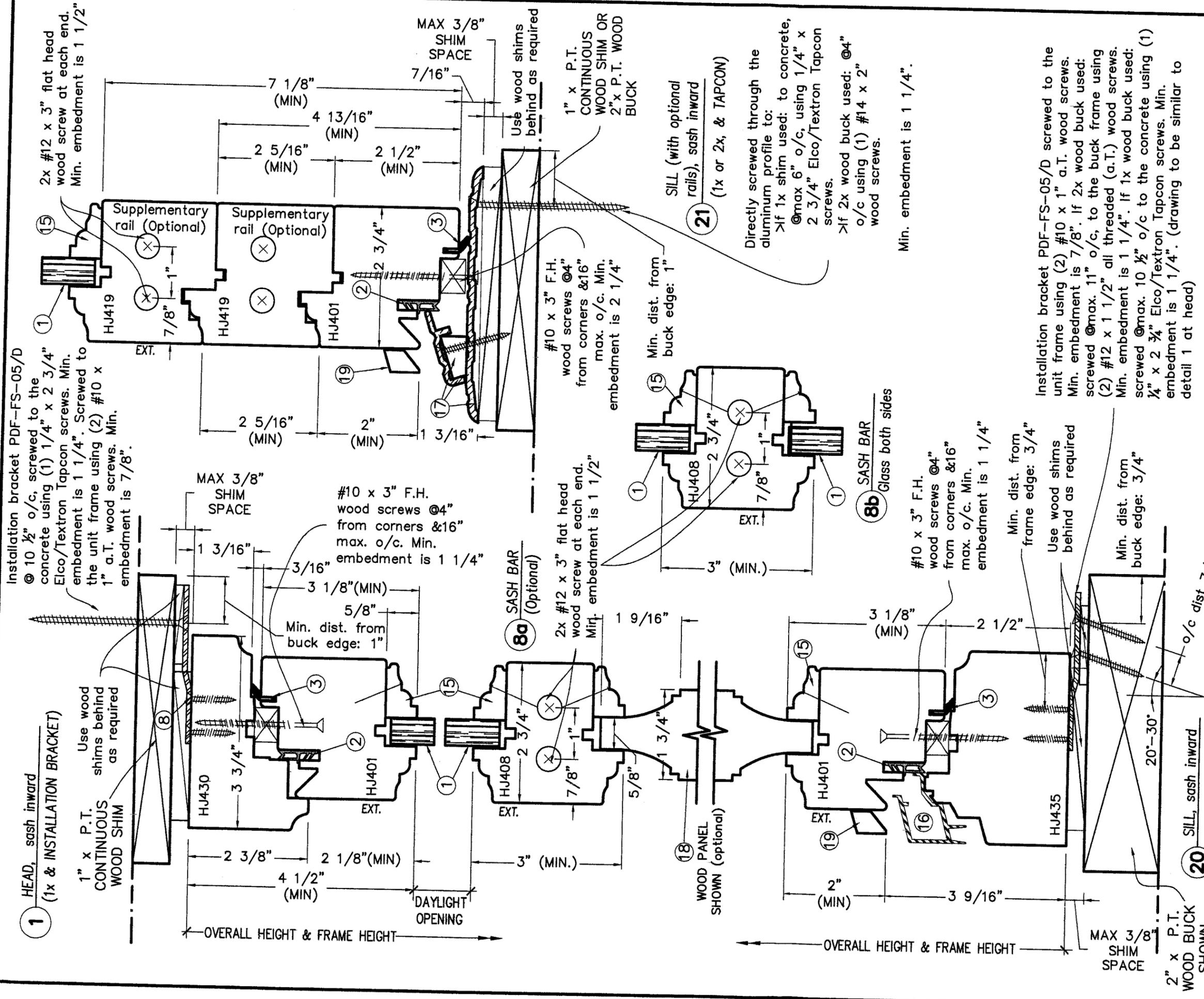
STRUCTURALLY REVIEWED BY:
WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL. LIC. NO. 44167

MAY 17 2006



TILLIT TESTING & ENGINEERING COMPANY
6355 NW 36th STREET, STE. 305
MIAMI, FLORIDA 33166
FL E.B. LICENSE No. 0006719

PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No 05-1009-04
Expiration Date 03/04/11
By
Tillit Testing & Engineering Company



Installation bracket PDF-FS-05/D
 @ 10 1/2" o/c, screwed to the
 concrete using (1) 1 1/4" x 2 3/4"
 Elco/Textron Tapcon screws. Min.
 embedment is 1 1/4". Screwed to
 the unit frame using (2) #10 x
 1" a.T. wood screws. Min.
 embedment is 7/8".

MAX 3/8"
SHIM
SPACE

#10 x 3" F.H.
wood screws @4"
from corners &16"
max. o/c. Min.
embedment is 1 1/4"

8a SASH BAR
(Optional)

2x #12 x 3" flat head
wood screw at each end.
Min. embedment is 1 1/2"

8b SASH BAR
Glass both sides

#10 x 3" F.H.
wood screws @4"
from corners &16"
max. o/c. Min.
embedment is 1 1/4"

20 SILL, sash inward
SHOWN

2" x P.T.
WOOD BUCK
SHOWN

Min. dist. from
buck edge: 3/4"

Use wood shims
behind as required

Min. dist. from
frame edge: 3/4"

21 SILL (with optional
rails), sash inward
(1x or 2x, & TAPCON)

Directly screwed through the
aluminum profile to:
 >If 1x shim used: to concrete,
 @max 6" o/c, using 1/4" x
 2 3/4" Elco/Textron Tapcon
 screws.
 >If 2x wood buck used: @4"
 o/c using (1) #14 x 2"
 wood screws.

Min. embedment is 1 1/4".

Installation bracket PDF-FS-05/D screwed to the
unit frame using (2) #10 x 1" a.T. wood screws.
Min. embedment is 7/8". If 2x wood buck used:
screwed @max. 11" o/c, to the buck frame using
(2) #12 x 1 1/2" all threaded (a.T.) wood screws.
Min. embedment is 1 1/4". If 1x wood buck used:
screwed @max. 10 1/2" o/c to the concrete using (1)
1/4" x 2 3/4" Elco/Textron Tapcon screws. Min.
embedment is 1 1/4". (drawing to be similar to
detail 1 at head)



1855 GRIFFIN ROAD,
SUITE A-271
DANIA, FL 33004

JS SERIES
WOOD FIXED WINDOWS
SASH INWARD

Drawing no.: JS-2-IN	
Scale: NONE	Drawn by: S. Marcotte
Date drawn: 01/10/99	Date revised: 05/12/06
File: JS-2-IN	Page: 7 / 12

STRUCTURALLY REVIEWED BY:
WALTER A. TILLIT JR., P.E.
 STRUCTURAL ENGINEER
 FL. LIC. NO. 44167

MAY 17 2006



TILLIT TESTING & ENGINEERING COMPANY
 6355 NW 36th STREET, STE. 305
 MIAMI, FLORIDA 33166
 FL E.B. LICENSE No. 0006719

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 05-1004-04
 Expiration Date 03/01/11
 By: [Signature]
 Miami Code Product Control
 Division

NUMBERS ARE REFERRING TO THE
 ASSEMBLY LISTS ON PAGES 9 TO 11

NOTE: Clear "Spectrem 2" silicone sealant at shown interfaces



1855 GRIFFIN ROAD,
SUITE A-271
DANIA, FL 33004

JS SERIES WOOD FIXED WINDOWS SASH INWARD

Drawing no.: JS-2-IN	
Scale: NONE	Drawn by: S. Marcotte
Date drawn: 01/10/99	Date revised: 05/12/06
File: JS-2-IN	Page: 8 / 12

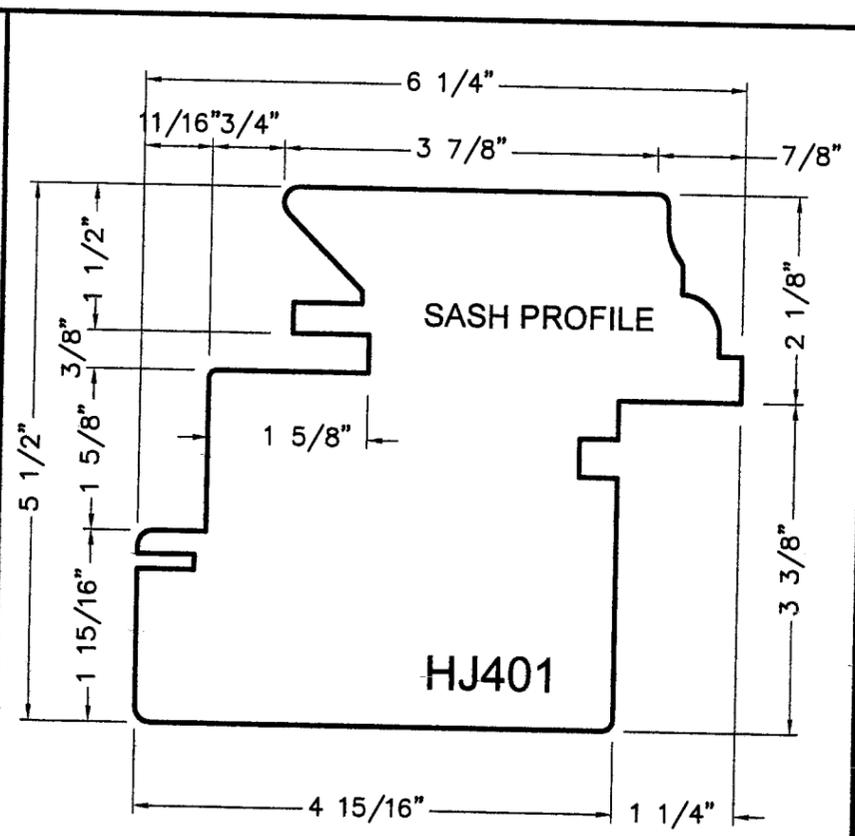
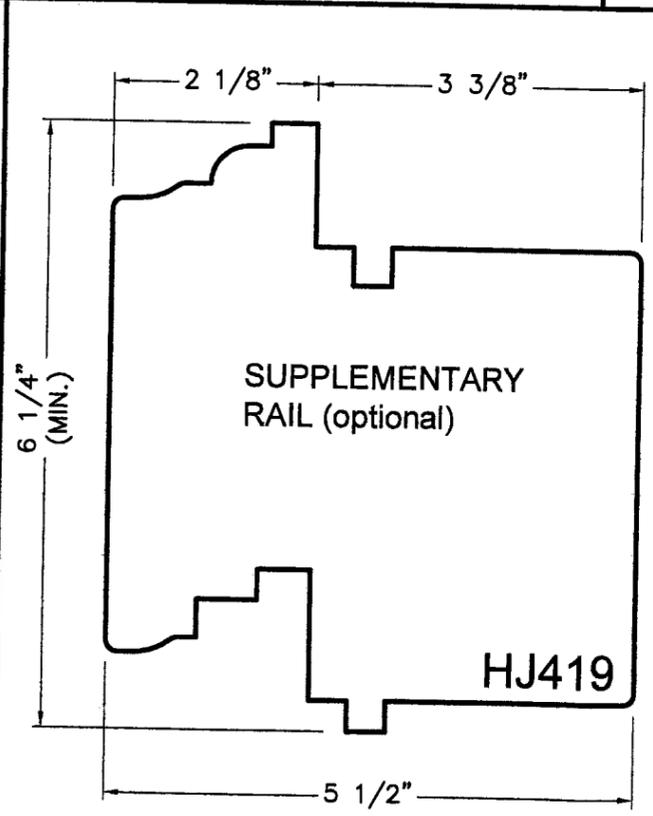
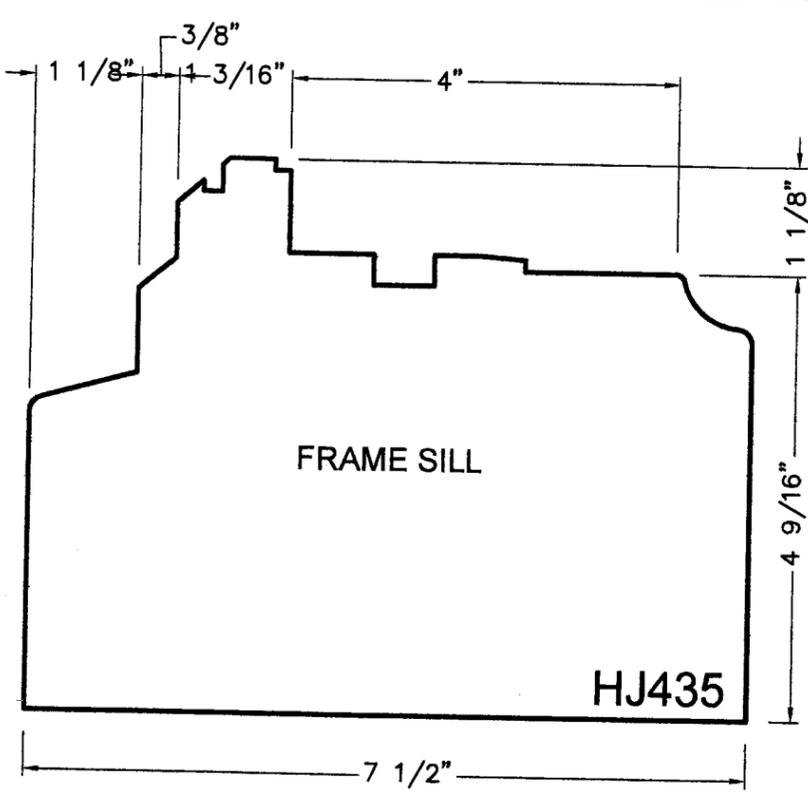
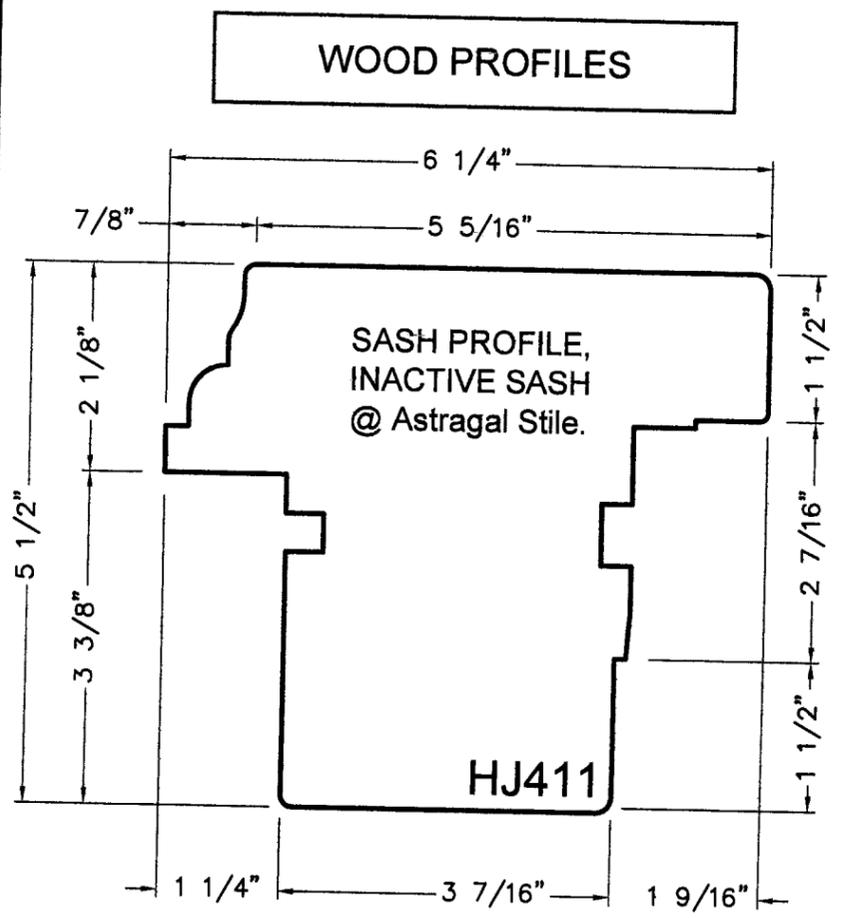
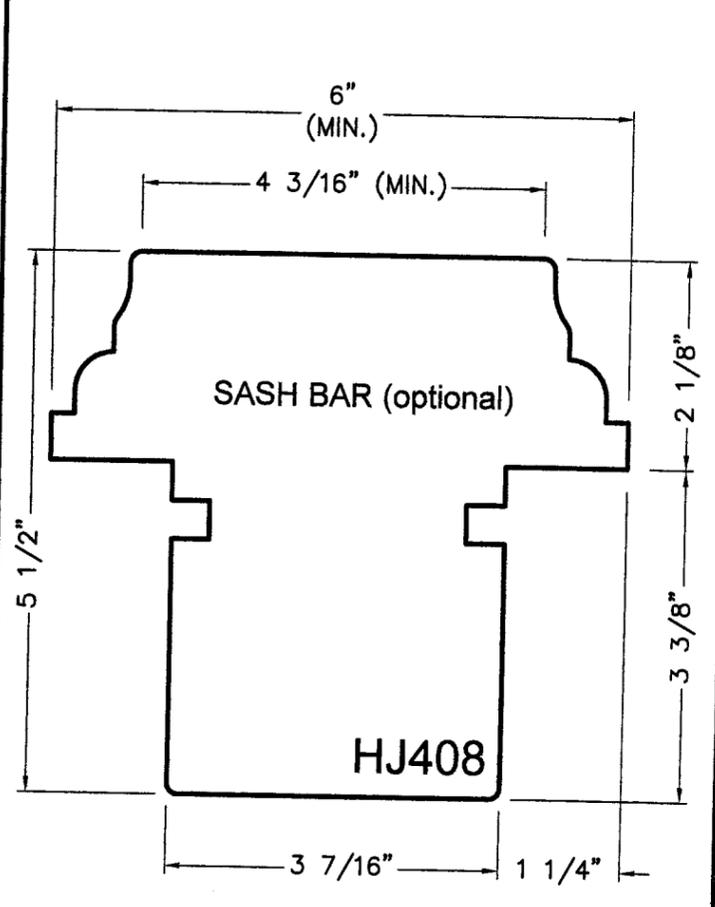
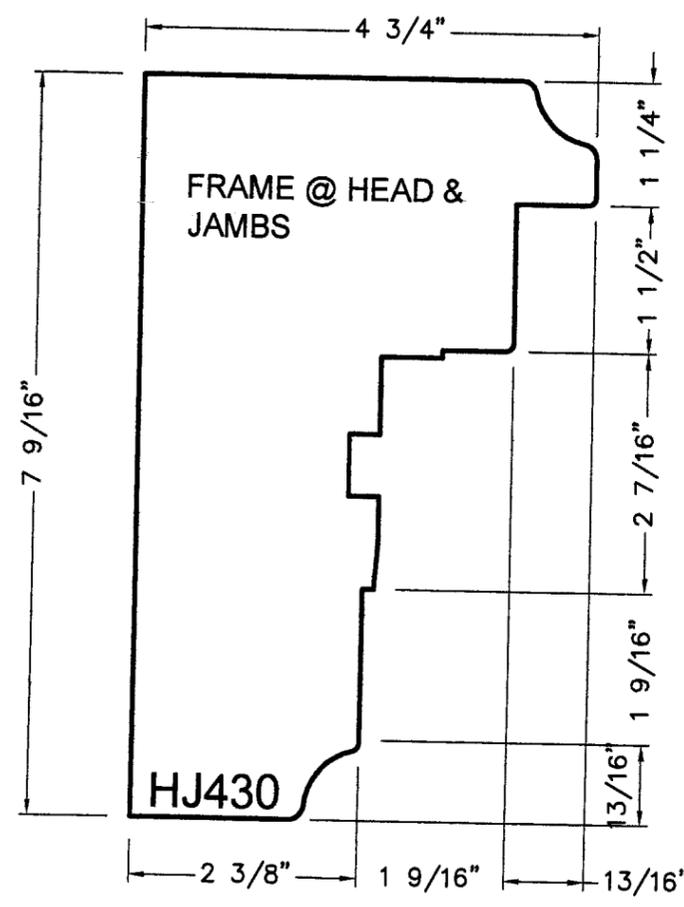
STRUCTURALLY REVIEWED BY:
WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL. LIC. NO. 44167

MAY 17 2006



TILLIT TESTING & ENGINEERING COMPANY
6355 NW 36th STREET, STE. 305
MIAMI, FLORIDA 33166
FL E.B. LICENSE No. 0006719

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 05-1004-04
Expiration Date 02/01/11
By
Miami South Product Control
Division



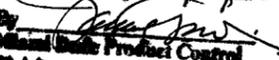
**JS SERIES
 WOOD FIXED WINDOWS
 SASH INWARD**

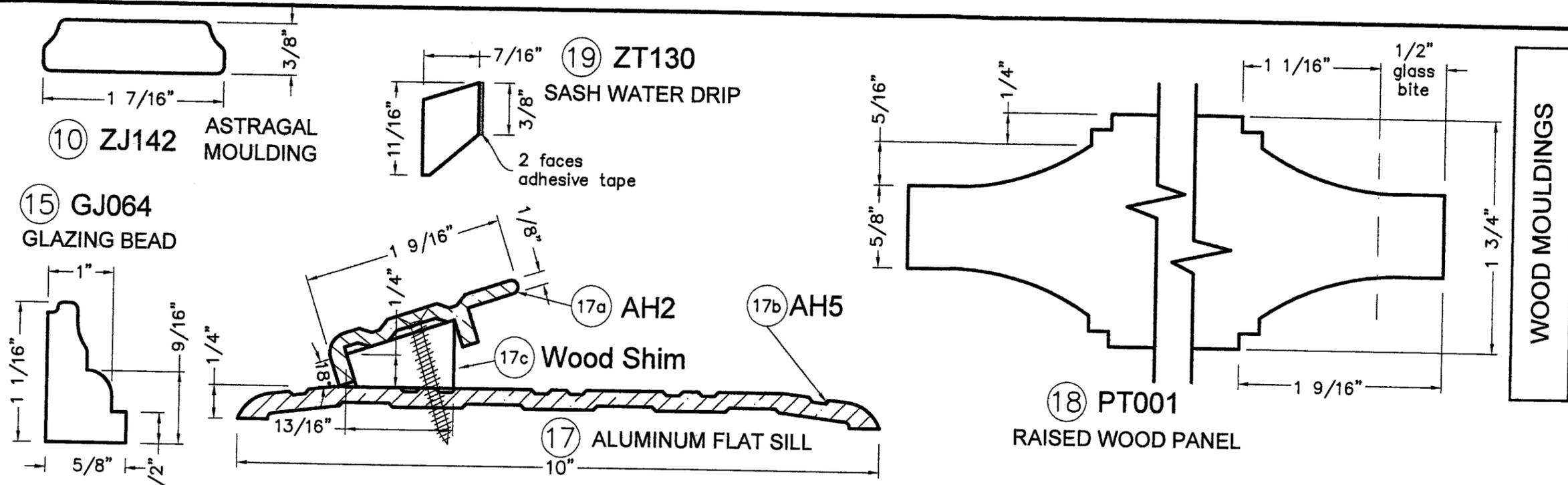
Drawing no.: JS-2-IN
 Scale: NONE
 Date drawn: 01/10/99
 File: JS-2-IN
 Drawn by: S. Marcotte
 Date revised: 05/12/06
 Page: 9 / 12

STRUCTURALLY REVIEWED BY:
WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL. LIC. NO. 44167

 MAY 17 2006

TILECO INC.
 TILLIT TESTING & ENGINEERING COMPANY
 6355 NW 36th STREET, STE. 305
 MIAMI, FLORIDA 33166
 FL E.B. LICENSE No. 0006719

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 05-1004-04
 Expiration Date 02/01/11
 By: 
 Miami-Dade Product Control
 Division



BILL OF MATERIALS (see also related cross sections details)

REF.	QTY	Component	DESCRIPTION	MATERIAL	DIMENSIONS	MEAN OF ATTACHMENT	LOCATION
10	2 per astragal meeting	Astragal moulding	ZJ142 astragal wood cover. Square cut at the ends.	Mahogany	3/8"(d) x 1 7/16"(w) x sash height	18 gauge, 5/8" galvanized finishing nails spaced 16" o/c.	SASH INWARD: One nailed on the interior face of the active sash & one nailed on the exterior face of the passive sash.
15	1 per glass edge	Glazing bead	GJ064 wood profile, mitre cut at corners.	Mahogany	1 1/16"(d) x 5/8"(w)	18 gauge, 1" finishing nails spaced 2" from the corners and 10" o/c	@ the perimeter of the glass or wood panel; Nailed through the glazing bead to the sash profile. SEE ALSO "GLAZING METHOD", SHEET 14/15
17a	1 per door sill	Flat saddle	AH5 aluminum profile	Alu. alloy 6063-T5	1/4"(h) x 5"(d) x 1/8"(t)	2x #12 x 2" F.H. screw	Door frame sill. Screwed @ both ends into the unit frame jambs. Square cut @ ends. See "Aluminum flat sill assembly" on sheet 12 / 12.
17b	1 per door sill	Stopper	AH2 aluminum profile	Alu. alloy 6063-T5	3/8"(h) x 1 9/16"(d) x 1/8"	#12 x 1" flat head screws	Door frame sill. Screws spacing is 14" o/c. Butt joint against the frame jambs @ both ends.
17c	1 per door sill	Shim	Continuous wood shim	Mahogany	13/16"(d) x 1/2"(h)	See AH2 screw.	Door frame sill. Screws spacing is 14" o/c. Butt joint against the frame jambs @ both ends.
18	One	Wood panel	Raised wood panel: 5/8"(t) @ flanges, 1 3/4"(t) @ center.	Mahogany	1" wider & higher than glass opening.	Dow Corning 995 structural silicone at the perimeter;	Where indicated as WP (WOOD PANEL) on elevations
19	1 per sash, open in	Sash water drip	ZT130 Wood moulding. Square cut at the ends	Mahogany	7/16"(d) x 11/16"(w)	18 gauge, 1" finishing nails spaced 2" from the corners and 10" o/c	SASH INWARD ONLY: Nailed against the exterior face of the bottom rail of the operable sashes; a double face adhesive tape is used in between.

REF. NUMBERS ARE RELATED TO THOSE USED ON CROSS SECTIONS DRAWINGS

 Clear "Spectrem 2" silicone sealant at shown interfaces

JS SERIES
WOOD FIXED WINDOWS
SASH INWARD

Drawing no.: JS-2-IN
Scale: NONE
Date drawn: 01/10/99
File: JS-2-IN
Drawn by: S. Marcotte
Date revised: 05/12/06
Page: 10 / 12

STRUCTURALLY REVIEWED BY:
WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL. LIC. NO. 44167

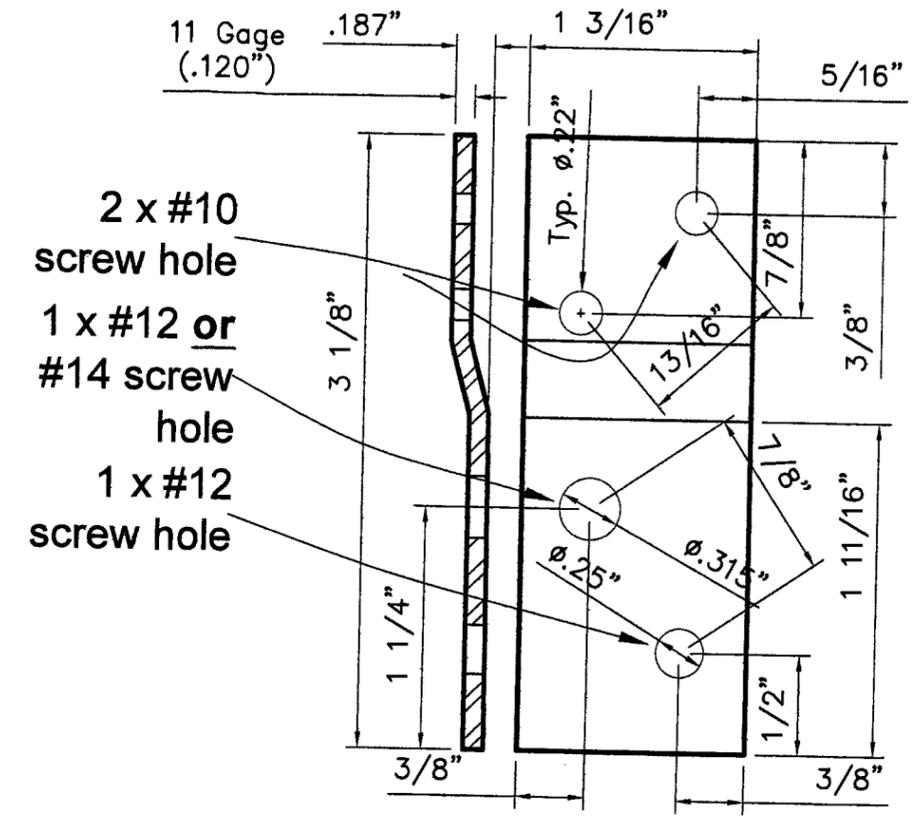
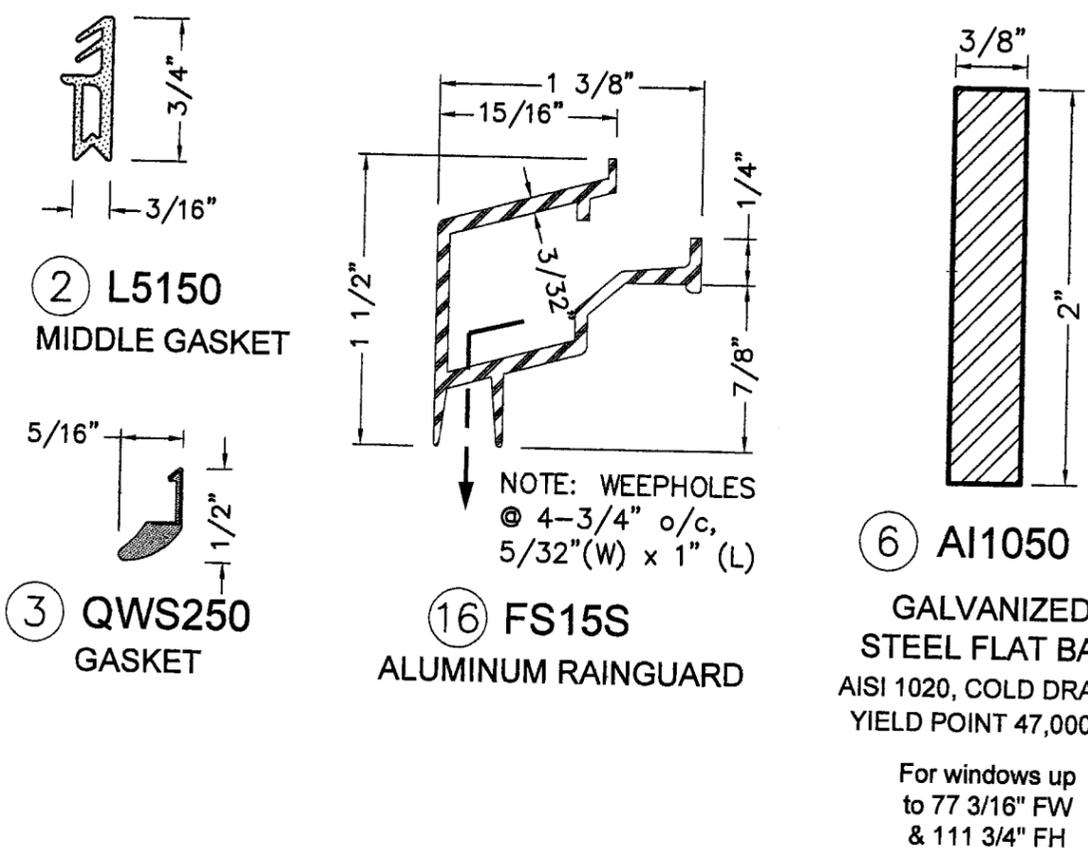
[Signature]
MAY 17 2006



TILLIT TESTING & ENGINEERING COMPANY
6355 NW 36th STREET, STE. 305
MIAMI, FLORIDA 33166
FL E.B. LICENSE No. 0006719

PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 05-1004.04
Expiration Date 03/10/13
[Signature]
Product Control

ACCESSORIES

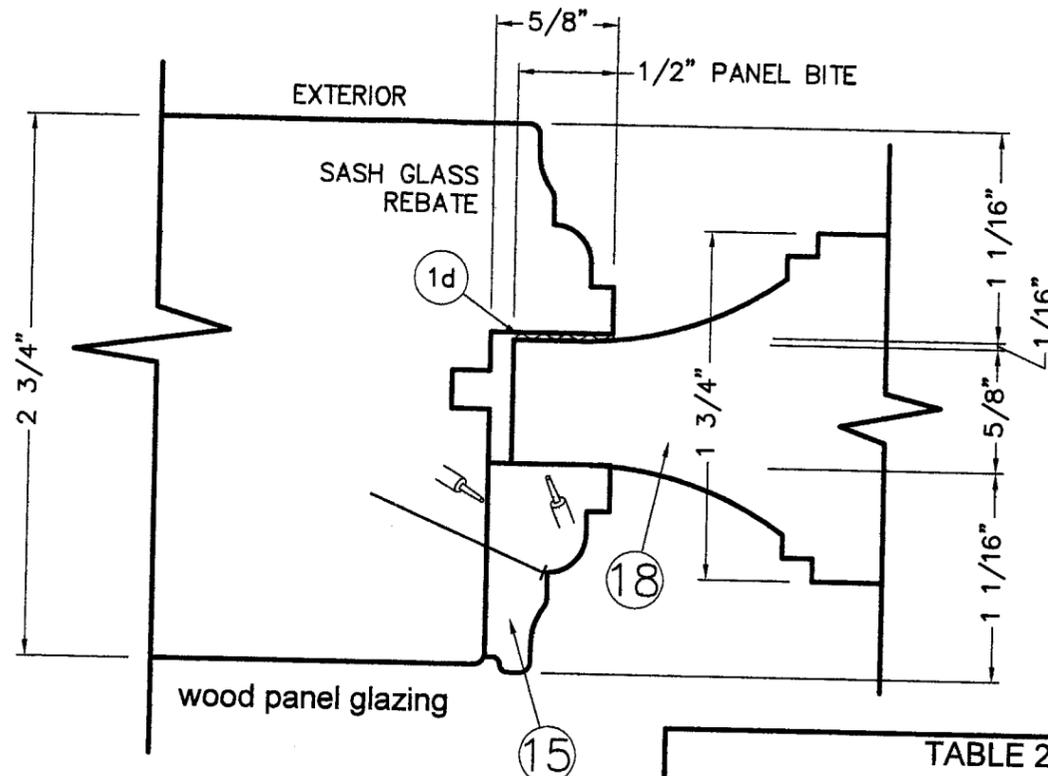
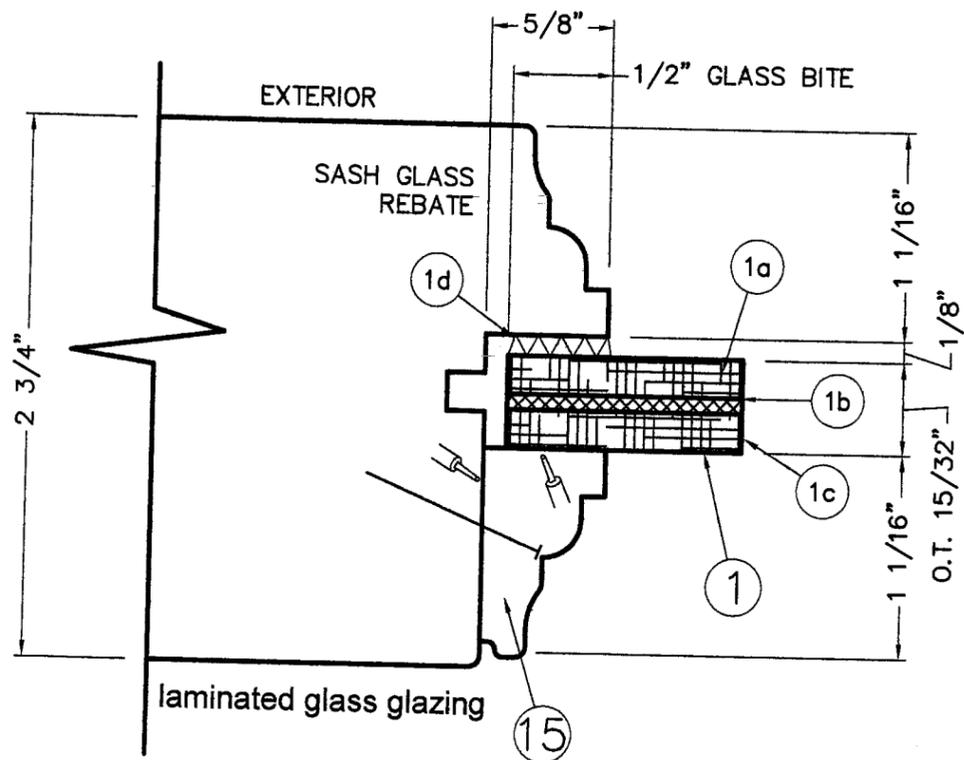


8 PDF-FS-05/D INSTALLATION BRACKET
Gage 11 ASTM A653 SQ 33 G90 galvanized steel

BILL OF MATERIALS (see also related cross sections details)

REF.	QTY	Component	DESCRIPTION	MATERIAL	DIMENSIONS	MEAN OF ATTACHMENT	LOCATION
2	LF depends on sash perimeter	Middle gasket	Brüggman L5150, Push-in middle gasket; mitre cut @ corners	EPDM	3/16"(d) x 3/4"(h)	Push-in gasket, in a continuous groove around the sash.	Perimeter of the active & fixed sashes; Head, bottom & hinged stile of inactive sash.
3	LF depends on sash perimeter	Gasket	Schlegel QWS250 foam gasket, mitre cut @ corners.	Polyurethane foam	5/16"(d) x 1/2"(h)	Push-in gasket, in a continuous groove around the sash.	Perimeter of the active & fixed sashes; Head, bottom & hinged stile of inactive sash.
6	2 per astragal	Reinforcement	AI1050, Galvanized Steel AISI C1020, Cold drawn	Steel	3/8"(t) x 2"(d)	1/4" x 1" steel bolt, @ 9" from the bottom of the steel and @ 14" o/c.	@ stiles of an astragal meeting (inactive or active sash), for frame width (FW) greater than 64 3/4" or frame height (FH) greater than 69 1/4". Steel length is 12" less than the sash height.
8	Depends on frame perim.	Installation	PDF-FS-05/D Installation bracket Gage 11 ASTM A653 SQ 33 G90 galvanized steel	Galv. Steel	1.181"(w) x 3.125"(h) x 11g(t)	To the frame: 2x #10 x 1" wood screws. Min. embedment is 3/4" To structure: See installation notes pages 1-5	Around the frame perimeter, @ 5 1/2" from corners; Max. distance on center (o/c): 11"
16	1 per wood sill, open in	Rainguard	FS15S profile, weep holes @ 4-3/4" o/c, 5/32"(W) x 1" (L)	Aluminum alloy 6063-T5	1 1/2"(h) x 1 3/8"(d) x 3/32"(t)	#8 x 3/4" round head wood screws, spaced 9 1/4" o/c.	At the top of the frame sill no. HJ435; INSIDE OPENING ONLY. Butt joint against the frame jambs at both ends.

REF. NUMBERS ARE RELATED TO THOSE USED ON CROSS SECTIONS DRAWINGS



GLAZING METHOD (inside glazed)



**JS SERIES
WOOD FIXED WINDOWS
SASH INWARD**

Drawing no.: JS-2-IN
 Scale: NONE
 Date drawn: 01/10/99
 File: JS-2-IN
 Drawn by: S. Marcotte
 Date revised: 05/12/06
 Page: 11 / 12

STRUCTURALLY REVIEWED BY:

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

[Signature]
 MAY 17 2006



TILLIT TESTING & ENGINEERING COMPANY
 6355 NW 36th STREET, STE. 305
 MIAMI, FLORIDA 33166
 FL. E.B. LICENSE No. 0006719

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 05-1004.04
 Expiration Date 03/01/11
 By *[Signature]*
 National Made Product Control
 Division

BILL OF MATERIALS

REF.	Component	DESCRIPTION	MEAN OF ATTACHMENT	LOCATION
①	Impact Glass, see components 1a,1b,1c	15/32" (t) Laminated glass (3/8" [10mm] designation)	See components 1d, and 15	As indicated on elevations drawings by the symbol.
①a	Exterior glass sheet	3/16" (t) (5mm) as following: >Type 1: Annealed glass for d.l.o. dimensions on table 3 >Type 2: Heat strengthened glass for d.l.o. dimensions exceeding those into table 3	See components 1b: PVB interlayer	Exterior side
①b	Saflex III G PVB interlayer by Solutia	Saflex III G 0.090" (t) PVB plastic film by Solutia, per current approval	2 sides adhesive film	Between the interior and the exterior sheets of glass
①c	Interior glass sheet	3/16" (t) (5mm) heat strengthened glass	See components 1b: PVB interlayer	Interior side (glazing bead side)
①d	Structural silicone	Dow Corning 995 black silicone	1/8"(t) x 1/2"(w) bonding extrusion	Continuous extrusion between the wood back fence & the exterior sheet edge of the laminated glass or wood panel.
①5	Glazing bead	GJ064 wood profile (5/8"(t) x 1 1/16"(d)	18 gauge, 1" finishing nails spaced 2" from the corners and 10" o/c	@ the perimeter of the glass.
①8	Wood panel	Mahogany, raised: 5/8"(t) @ flanges, 1 3/4"(t) @ center; Max. d.l.o. area up to 7.81 sqf	See components 1d, and 15	As indicated on elevation drawings.

Clear "Spectrem 2" silicone sealant at shown interfaces

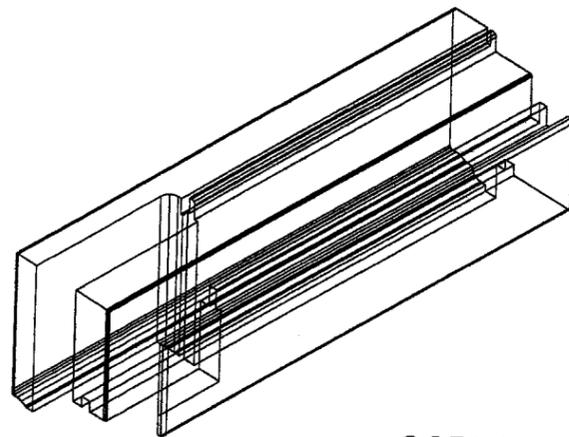
REF. NUMBERS ARE RELATED TO THOSE USED ON CROSS SECTIONS DRAWINGS

TABLE 2

GLASS TYPES FOR FRAME DIMENSIONS OF TABLE 1 OR FOR BASIC RECTANGLES GIVEN ON SHEETS 2, 3, 4 AND 5 OF THIS DRAWING
 If, for a given long member d.l.o., the actual short member daylight opening exceeds the maximum dimension indicated on table 2, then
 TYPE 2 heat strengthened laminated glass [3/16" HS - .09" PVB interlayer, Saflex III G by Solutia - 3/16" HS]
 OR TYPE 3 full tempered laminated glass [3/16" FT - .09" PVB interlayer, Saflex III G by Solutia - 3/16" FT]
MUST BE USED

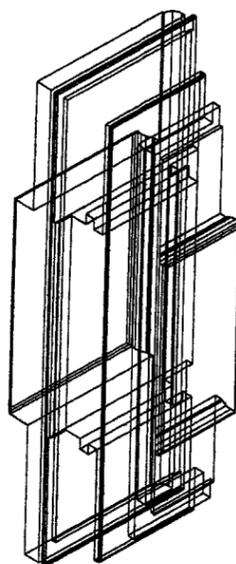
Maximum daylight opening for type 1 laminated glass [3/16" AN - .090" PVB interlayer by Solutia - 3/16" HS]

Given Long member d.l.o. up to (in.)	Max. short member d.l.o. (in.)	Given Long member d.l.o. up to (in.)	Max. short member d.l.o. (in.)
47 1/4	47.244	90 1/2	28.150
51	41.339	94 1/2	27.953
55	38.386	98 1/2	27.559
59	36.220	102 1/4	27.362
63	34.055	106 1/4	26.969
66	32.480	110 1/4	26.772
70 3/4	31.496	114	26.575
74 3/4	30.512	118	26.378
78 3/4	29.528	122	26.220
82 1/2	28.937	126	26.102
86 1/2	28.543	130	25.984



TYPE OF GLUE:
RESIBOIS 222 no 30222-01 TYPE 1
EXTERIOR GLUE FOR WOOD

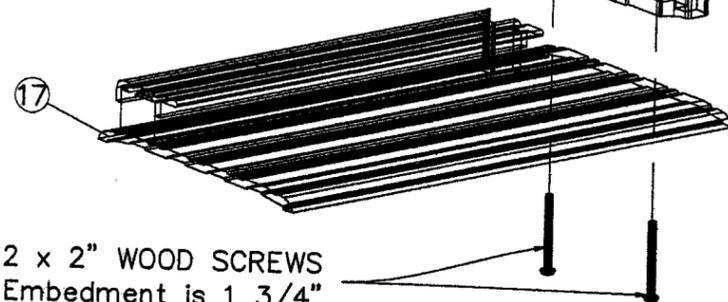
**CORNER
ASSEMBLY
(MULTI-FORK)**



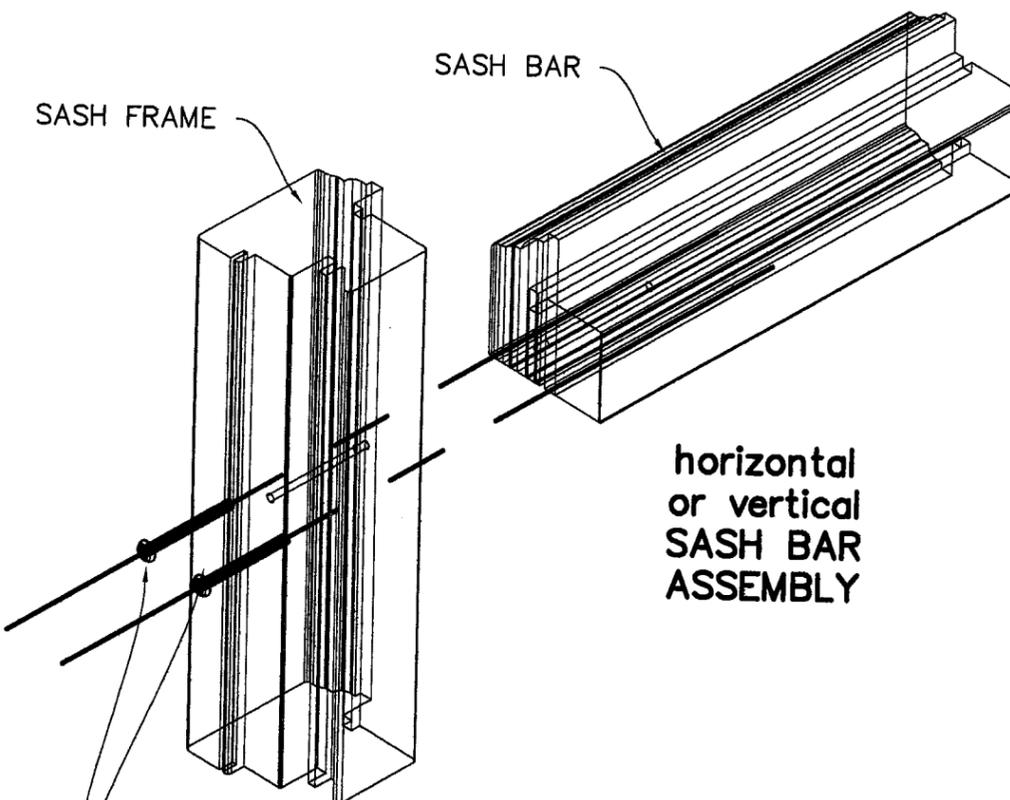
FRAME JAMB



**ALUMINUM FLAT
SILL ASSEMBLY**



#12 x 2" WOOD SCREWS
Embedment is 1 3/4"



SASH FRAME

SASH BAR

horizontal
or vertical
SASH BAR
ASSEMBLY

2x #12 x 3" WOOD
SCREWS AT EACH END
MIN. EMBEDMENT IS 1 1/2"

**JS SERIES
WOOD FIXED WINDOWS
SASH INWARD**

Drawing no.: JS-2-IN	
Scale: NONE	Drawn by: S. Marcotte
Date drawn: 01/10/99	Date revised: 05/12/06
File: JS-2-IN	Page: 12 / 12

STRUCTURALLY REVIEWED BY:

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

[Signature]
MAY 17 2006



TILLIT TESTING & ENGINEERING COMPANY
6355 NW 36th STREET, STE. 305
MIAMI, FLORIDA 33166
FL E.B. LICENSE No. 0006719

PRODUCT REVIEW
in compliance with the Florida
Building Code
Approval No. 05-1004.04
Expiration Date 03/01/11
[Signature]
Michael Deady Product Control
Director