

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 5TH EDITION (2014) FLORIDA BUILDING CODE.
- 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. SHUTTERS ARE NOT REQUIRED.
- 3- WOOD BUCKS (BY OTHERS) AND OPENINGS MUST BE DESIGNED BY THE PROFESSIONAL OF RECORD. WOOD BUCKS MUST BE ADEQUATELY FASTENED TO TRANSFER LOADS FROM THE WINDOW FRAMES 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.
- 6- WOOD: Mahogany (See Note on Sheet 9)

| DESIGN PRESSURE                                                               |
|-------------------------------------------------------------------------------|
| Positive Pressure: +58 psf<br>Negative Pressure -68 psf                       |
| NOTE: Refer to table 1 for minimum and maximum sizes width (FW) & height (FH) |

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"

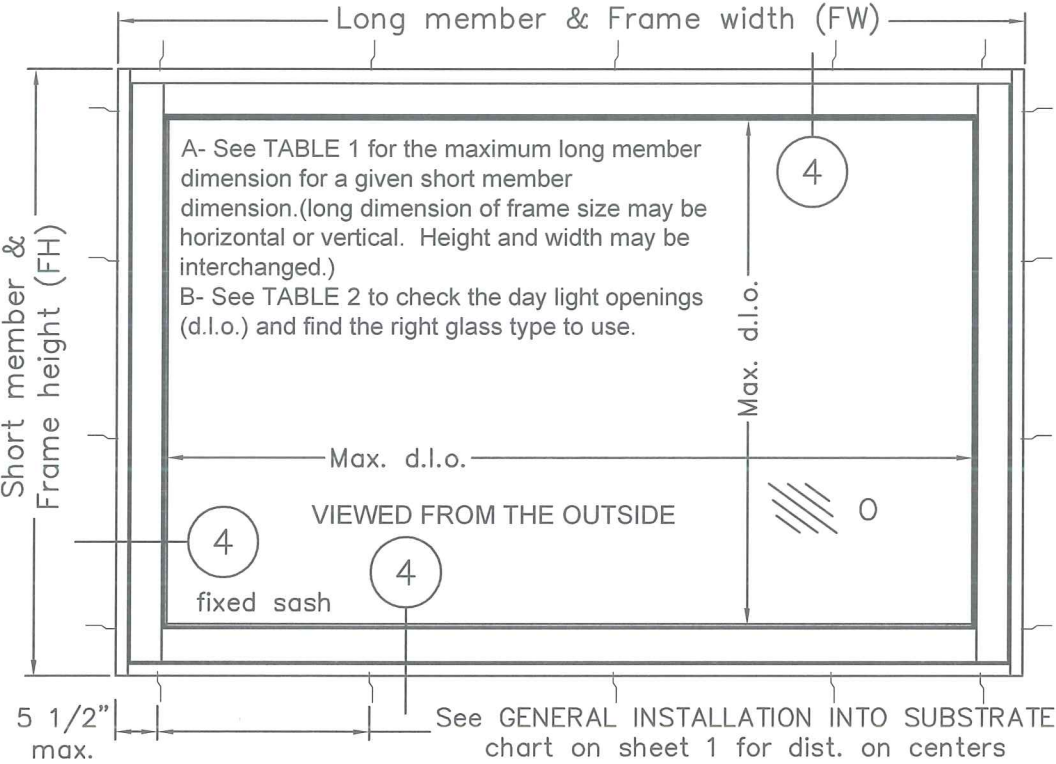


TABLE 2  
GLASS TYPES FOR FRAME DIMENSIONS OF TABLE 1 OR FOR BASIC RECTANGLES GIVEN ON SHEETS 2, 3, 4 AND 5 OF THIS DRAWING

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

| Maximum daylight opening for type 1 laminated glass<br>[3/16" AN - .09" PVB interlayer, Saflex IIIG* 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                         |

Saflex IIIG\* is manufactured by Eastman Chemical; per NOA# 15-1201.11

Installation Notes:  
1- All fastener spacings are 5 1/2" from corners and (max) O.C. as listed in the General Installation chart below.  
2- Shim Space: Max. shim space is 3/8" at head, jambs, and sill. Use std. shims behind as required.  
3- Materials including, but not limited to, steel and steel screws that come into contact with other dissimilar materials shall meet the requirements of the 2014 Florida Building Code.

| GENERAL INSTALLATION INTO SUBSTRATE |               |                                                                                                                                                                           | 0 - 72.436  |           | 72.436                         |                                   |                                 |                          |                 |
|-------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|--------------------------------|-----------------------------------|---------------------------------|--------------------------|-----------------|
| Anchoring method                    | Substrate     | Fasteners type, size & embedment                                                                                                                                          | Spacing     |           | Min. dist. from wood buck edge | Min. dist. from substr. edge (ED) | Min. dist. from unit frame edge | Min. embedment           |                 |
|                                     |               |                                                                                                                                                                           | From corner | On center |                                |                                   |                                 | Into buck/ concrete/stud | Into unit frame |
| Direct anchor (at sill only)        | 2x_ wood buck | Through the unit frame into the buck frame (S.G.=0.5 min): (1) #14 x 2 3/4" wood screw.                                                                                   | 5½"         | 4½"       | 7/8"                           | -----                             | 7/8"                            | 1 ¼"                     | -----           |
|                                     | 1x_ wood buck | Through the buck frame into the masonry: (1) 1/4" x 2 3/4" Elco or ITW Tapcon screw.                                                                                      | 5½"         | 6"        | 1 "                            | 2½"                               | 1 "                             | 1 ¼"                     | -----           |
|                                     |               | Through the buck frame into the metal stud (18 ga, 45 ksi min): (1) 1/4" x 2 3/4" Elco Drill-flex or ITW Tek's screw.                                                     | 5½"         | 6"        | 1 "                            | 1 "                               | 1 "                             | Full*                    | -----           |
| PDF-FS-05/D Installation bracket    | 2x_ wood buck | To the buck frame (S.G.=0.5 min): (2) #12 X 1 1/2" all threaded (a.T.) wood screws. Into unit frame: (2) # 10 x 1" a.T. wood screws.                                      | 5½"         | 11"       | 3/4"                           | -----                             | 3/4"                            | 1 ¼"                     | 7/8"            |
|                                     | 1x_ wood buck | Through buck frame into masonry: (1) 1/4" x 2 3/4" Elco or ITW Tapcon screw. Into unit frame: (2) #10 x 1" a.T. wood screws.                                              | 5½"         | 10 ½"     | 1 "                            | 2½"                               | 3/4"                            | 1 ¼"                     | 7/8"            |
|                                     |               | Through the buck frame into the metal stud (18 ga, 45 ksi min): (1) 1/4" x 2 3/4" Elco Drill-flex or ITW Tek's screw. Into the unit frame: (2) #10 x 1" a.T. wood screws. | 5½"         | 10 ½"     | 1 "                            | 1 "                               | 3/4"                            | Full*                    | 7/8"            |

\* At metal studs, fastener threads must be fully engaged, with three threads minimum beyond the stud wall, for full embedment.

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                                      |



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

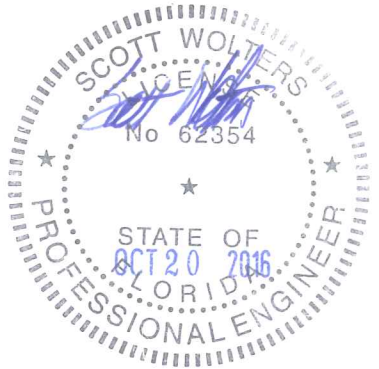
WINDOWS  
OF EUROPE AND  
THE AMERICAS

JS SERIES  
WOOD FIXED WINDOWS  
SASH INWARD

|              |               |
|--------------|---------------|
| Drawing no.: | JS-2-IN       |
| Scale:       | Drawn by:     |
| NONE         | S. Marcotte   |
| Date drawn:  | Date revised: |
| 01/10/99     | 10/19/16      |
| File:        | Page:         |
| JS-2-IN      | 1 / 12        |

STRUCTURALLY REVIEWED BY:

SCOTT WOLTERS  
FL PE# 62354  
WOLTERS ENGINEERING, INC.  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412



RECTANGULAR FIXED UNITS

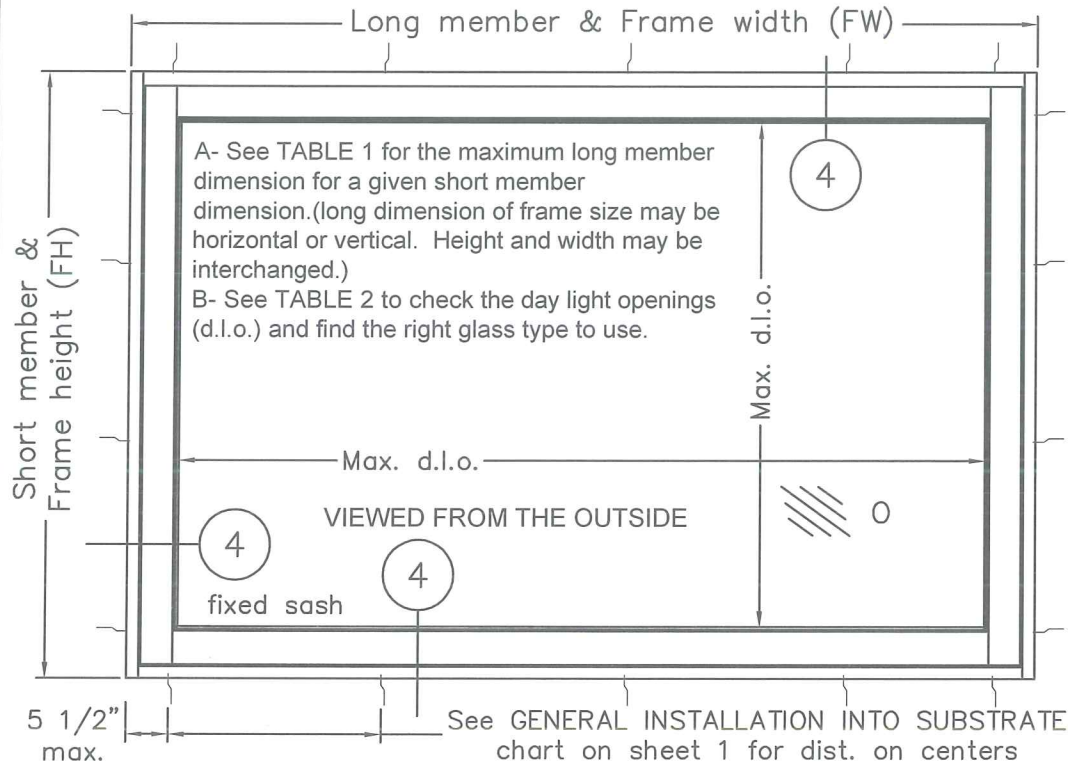
CONFIGURATIONS: O

GENERAL NOTES:

- 1- THIS PRODUCT IS DESIGNED TO COMPLY WITH THE PROVISIONS OF THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE 5TH EDITION (2014) FLORIDA BUILDING CODE.
- 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. SHUTTERS ARE NOT REQUIRED.
- 3- WOOD BUCKS (BY OTHERS) AND OPENINGS MUST BE DESIGNED BY THE PROFESSIONAL OF RECORD. WOOD BUCKS MUST BE ADEQUATELY FASTENED TO TRANSFER LOADS FROM THE WINDOW FRAMES 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.
- 6- WOOD: Mahogany (See Note on Sheet 9)

| DESIGN PRESSURE                                                               |
|-------------------------------------------------------------------------------|
| Positive Pressure: +58 psf<br>Negative Pressure -68 psf                       |
| NOTE: Refer to table 1 for minimum and maximum sizes width (FW) & height (FH) |

|                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------|
| Information on this page applies to cross sections 1 & 20 (sash "inward" ) ONLY                                       |
| Frame Size vs d.l.o. relation is:<br>Long d.l.o.= long frame dimension - 9"<br>Short d.l.o.=short Frame dimension- 9" |



| TABLE 2<br>GLASS TYPES FOR FRAME DIMENSIONS OF TABLE 1<br>OR FOR BASIC RECTANGLES GIVEN ON SHEETS 2,<br>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<br>[3/16" HS - .09" PVB interlayer, Saflex IIIG by Solutia - 3/16" HS]<br>OR TYPE 3 full tempered laminated glass<br>[3/16" FT - .09" PVB interlayer, Saflex IIIG by Solutia - 3/16" FT]<br>MUST BE USED |  |  |  |

| Maximum daylight opening for type 1 laminated glass<br>[3/16" AN - .09" PVB interlayer, Saflex IIIG* 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                         |

Saflex IIIG\* is manufactured by Eastman Chemical; per NOA# 15-1201.11

- Installation Notes:**
- 1- All fastener spacings are 5 1/2" from corners and (max) O.C. as listed in the General Installation chart below.
- 2- Shim Space: Max. shim space is 3/8" at head, jambs, and sill. Use std. shims behind as required.
- 3- Materials including, but not limited to, steel and steel screws that come into contact with other dissimilar materials shall meet the requirements of the 2014 Florida Building Code.

| GENERAL INSTALLATION INTO SUBSTRATE |               |                                                                                                                                                                          |             |           |                                |                                   |                                 |                                         |
|-------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|--------------------------------|-----------------------------------|---------------------------------|-----------------------------------------|
| Anchoring method                    | Sub-strate    | Fasteners type, size & embedment                                                                                                                                         | Spacing     |           | Min. dist. from wood buck edge | Min. dist. from substr. edge (ED) | Min. dist. from unit frame edge | Min. embedment Into buck/ concrete/stud |
|                                     |               |                                                                                                                                                                          | From corner | On center |                                |                                   |                                 | Into unit frame                         |
| Direct anchor (at sill only)        | 2x_ wood buck | Through the unit frame into the buck frame (S.G.=0.5 min): (1) #14 x 2 3/4" wood screw.                                                                                  | 5 1/2"      | 4 1/2"    | 7/8"                           | -----                             | 7/8"                            | 1 1/4" -----                            |
|                                     | 1x_ wood buck | Through the buck frame into the masonry: (1) 1/4" x 2 3/4" Elco / Textron Tapcon screw.                                                                                  | 5 1/2"      | 6"        | 1 "                            | 2 1/2"                            | 1 "                             | 1 1/4" -----                            |
|                                     |               | Through the buck frame into the metal stud (18 ga, 45 ksi min): (1) 1/4" x 2 3/4" Elco Drill-flex or ITW Tek screws.                                                     | 5 1/2"      | 6"        | 1 "                            | 1 "                               | 1 "                             | Full* -----                             |
| PDF-FS-05/D Installation bracket    | 2x_ wood buck | To the buck frame (S.G.=0.5 min): (2) #12 X 1 1/2" all threaded (a.T.) wood screws. Into unit frame: (2) # 10 x 1" a.T. wood screws.                                     | 5 1/2"      | 11"       | 3/4"                           | -----                             | 3/4"                            | 1 1/4" 7/8"                             |
|                                     | 1x_ wood buck | Through buck frame into masonry: (1) 1/4" x 2 3/4" Elco / Textron Tapcon screw. Into unit frame: (2) #10 x 1" a.T. wood screws.                                          | 5 1/2"      | 10 1/2"   | 1 "                            | 2 1/2"                            | 3/4"                            | 1 1/4" 7/8"                             |
|                                     |               | Through the buck frame into the metal stud (18 ga, 45 ksi min): (1) 1/4" x 2 3/4" Elco Drill-flex or ITW Tek screws. Into the unit frame: (2) #10 x 1" a.T. wood screws. | 5 1/2"      | 10 1/2"   | 1 "                            | 1 "                               | 3/4"                            | Full* 7/8"                              |

\* At metal studs, fastener threads must be fully engaged, with three threads minimum beyond the stud wall, for full embedment.



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

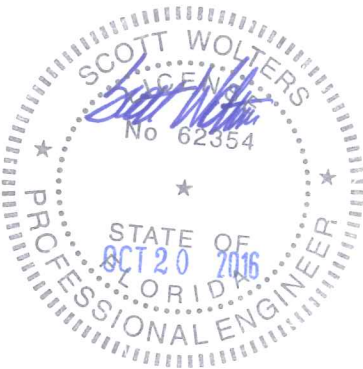
WINDOWS  
OF EUROPE AND  
THE AMERICAS

JS SERIES  
WOOD FIXED WINDOWS  
SASH INWARD

|              |               |
|--------------|---------------|
| Drawing no.: | JS-2-IN       |
| Scale:       | Drawn by:     |
| NONE         | S. Marcotte   |
| Date drawn:  | Date revised: |
| 01/10/99     | 10/19/16      |
| File:        | Page:         |
| JS-2-IN      | 1 / 12        |

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WEST PALM BEACH, FL 33412



RECTANGULAR  
FIXED UNITS

CONFIGURATIONS: O

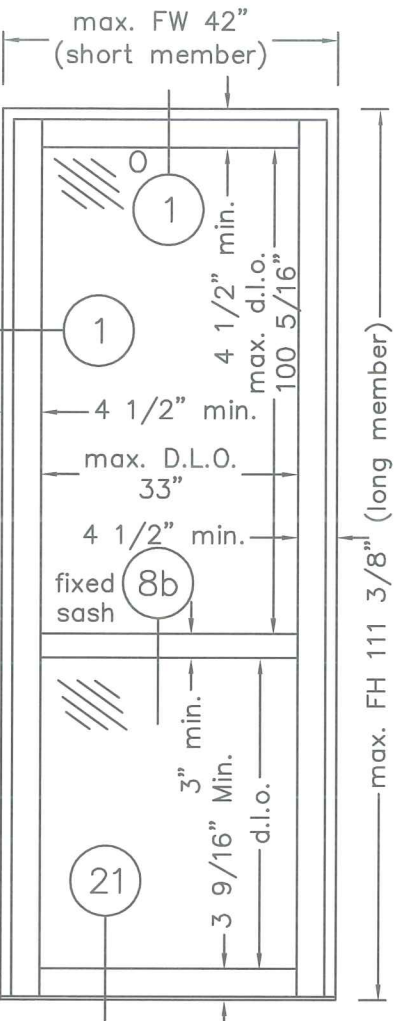
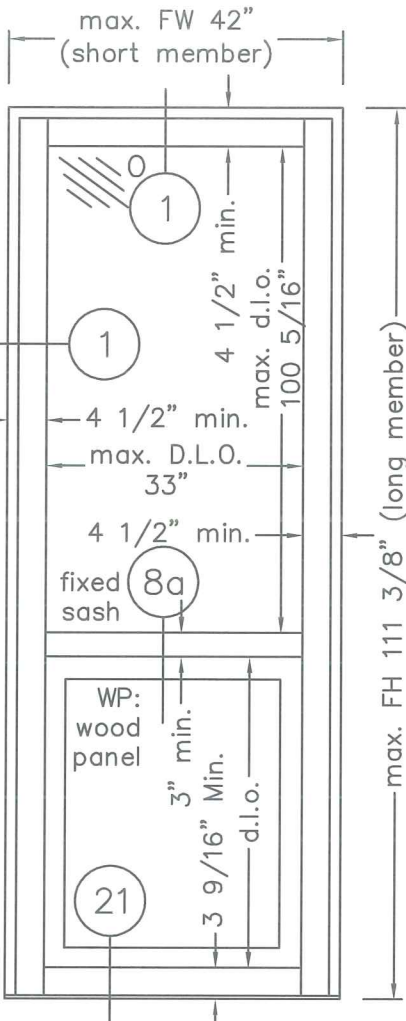
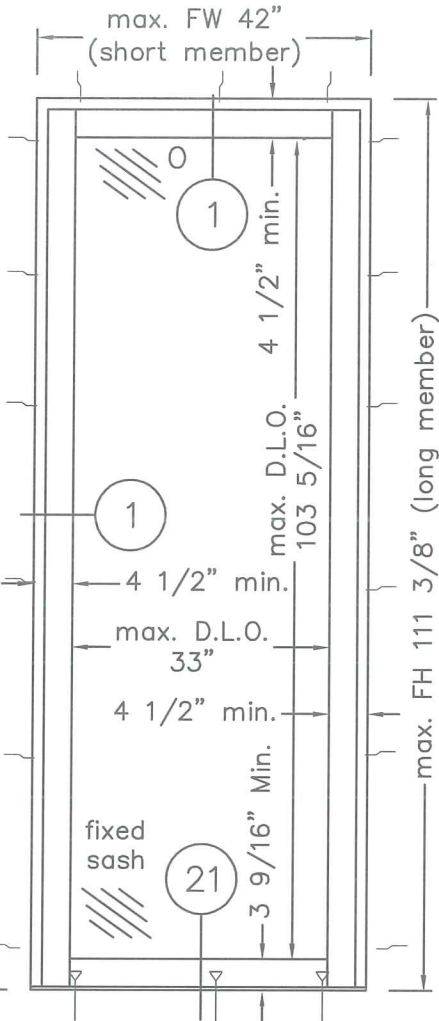
MAX. FW & FH AS INDICATED

VIEWED FROM THE INSIDE  
WOOD: Mahogany

| DESIGN PRESSURE                                                                       |
|---------------------------------------------------------------------------------------|
| Positive Pressure: +58 psf<br>Negative Pressure -68 psf                               |
| maximum frame width (FW)<br>and height (FH) as indicated<br>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 IIIG interlayer  
by Eastman Chemical-3/16"(HS)  
For sizes over those on table 2:  
TYPE 2, MADE OF:  
3/16"(HS)-0.090" PVB Saflex IIIG interlayer  
by Eastman Chemical-3/16"(HS)  
OR TYPE 3, MADE OF:  
3/16"(FT)-0.090" PVB Saflex IIIG interlayer  
by Eastman Chemical-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

See General Installation chart on Sheet 1 for  
fastener information.

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.

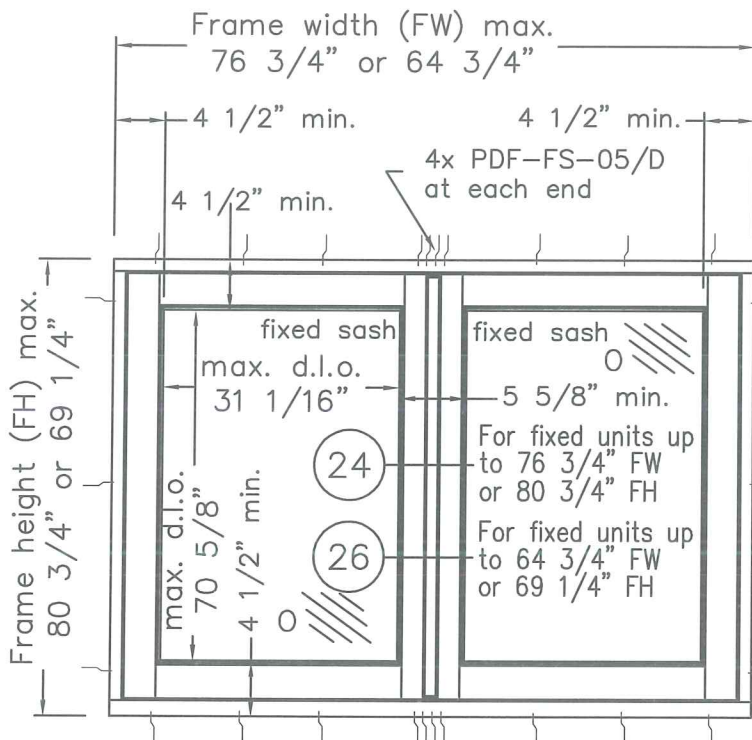
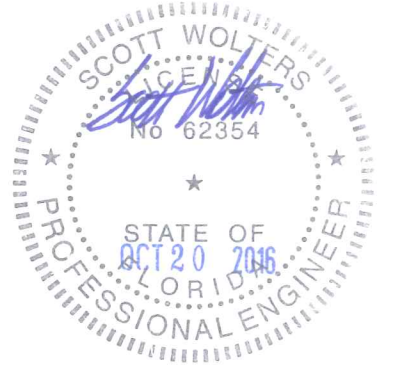


JS SERIES  
WOOD FIXED WINDOWS  
SASH INWARD

|                      |                        |
|----------------------|------------------------|
| Drawing no.: JS-2-IN | Drawn by: S. Marcotte  |
| Scale: NONE          | Date revised: 10/19/16 |
| Date drawn: 01/10/99 | Page: 2 / 12           |
| File: JS-2-IN        |                        |

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15211 97TH ROAD N  
WEST PALM BEACH, FL 33412

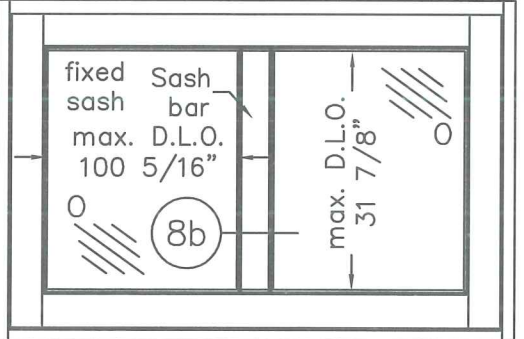
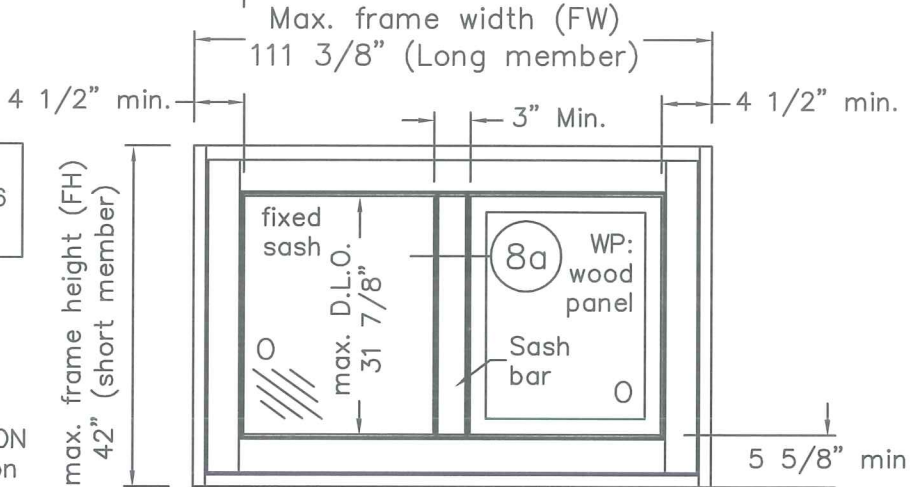


OPTIONAL: FIXED ASTRAGAL

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

5 1/2"  
max.



OPTIONAL: SASH BAR

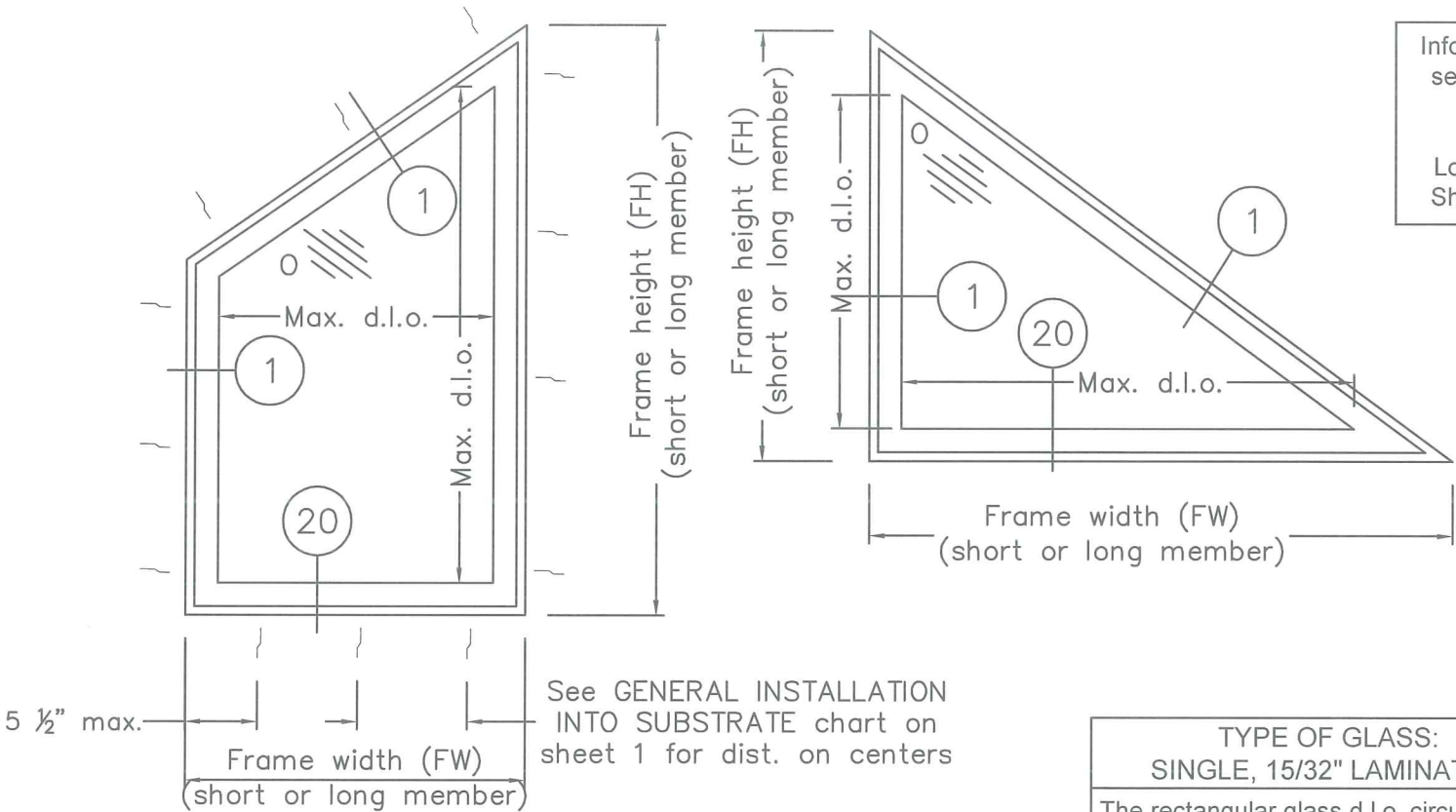
# TRIANGULAR FIXED SHAPES

CONFIGURATIONS: O

VIEWED FROM THE INSIDE  
WOOD: Mahogany

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

| TO DETERMINE THE MAX. FW AND FH:<br>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)                                                                                            |



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:<br>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<br>For sizes shown on table 2, sheet 11:<br>TYPE 1, MADE OF: 3/16" (AN) - 0.090" PVB Saflex IIIG interlayer by Eastman Chemical-3/16"(HS)<br>For sizes over those on table 2:<br>TYPE 2, MADE OF: 3/16"(HS) - 0.090" PVB Saflex IIIG interlayer by Eastman Chemical -3/16"(HS)<br>OR<br>TYPE 3, MADE OF: 3/16" (FT) - 0.090" PVB Saflex IIIG interlayer by Eastman Chemical -3/16"(FT) |
| WP: 1 3/4" RAISED WOOD PANEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Solid Mahogany, MAX. D.L.O.<br>AREA: 7.81 sqf. See detail on sheet 9                                                                                                                                                                                                                                                                                                                                                                                                                                   |

See General Installation chart on Sheet 1 for fastener information.

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.

**mq**  
WINDOWS  
OF EUROPE AND THE AMERICAS

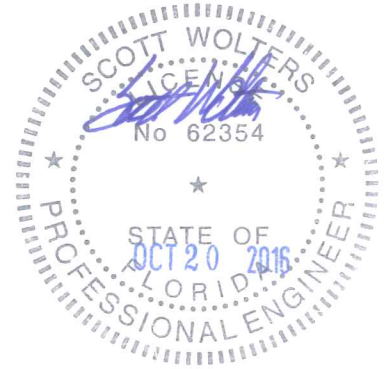
1855 GRIFFIN ROAD,  
SUITE A-271  
DANIA, FL 33004

## JS SERIES WOOD FIXED WINDOWS SASH INWARD

|              |               |
|--------------|---------------|
| Drawing no.: | JS-2-IN       |
| Scale:       | Drawn by:     |
| NONE         | S. Marcotte   |
| Date drawn:  | Date revised: |
| 01/10/99     | 10/19/16      |
| File:        | Page:         |
| JS-2-IN      | 3/ 12         |

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WOLTERS ENGINEERING, INC.  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412



ARCHED FIXED  
SHAPES

CONFIGURATIONS: O

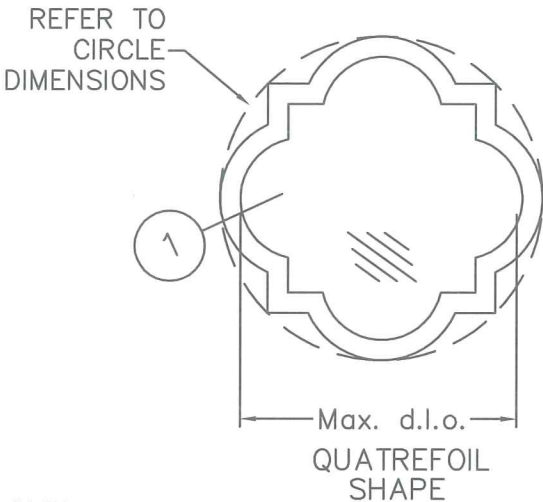
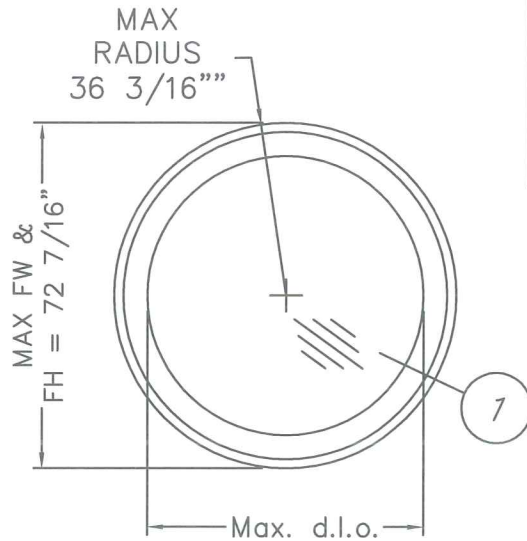
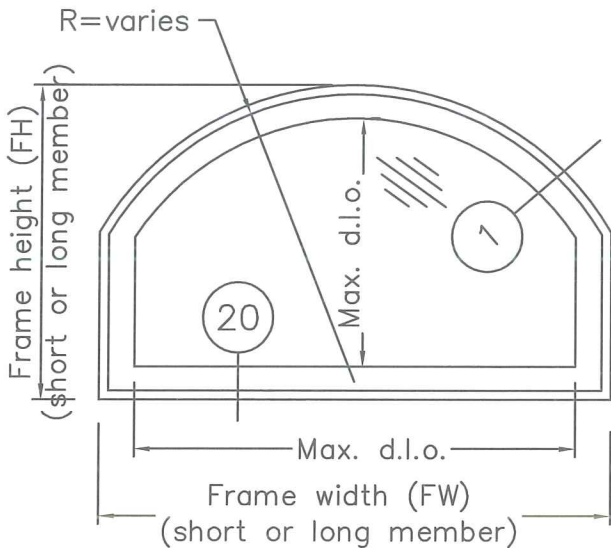
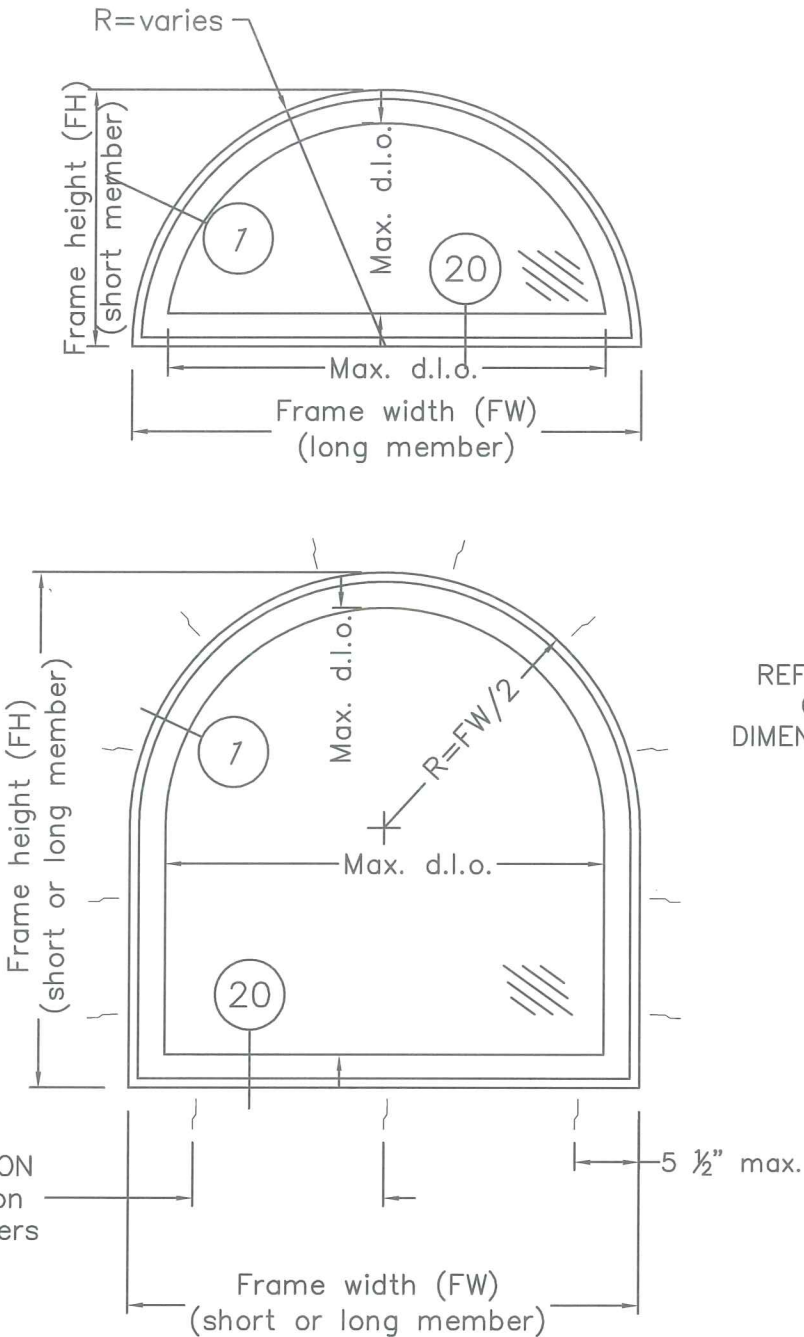
VIEWED FROM THE INSIDE  
WOOD: Mahogany

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

| TO DETERMINE THE MAX. FW AND FH:<br>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

|                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------|
| See General Installation chart on Sheet 1 for fastener information.                                                                   |
| Shim Space: 3/8" MAX. @ head, jambs & sill.<br>Use std shims behind as required. Use 4 x brackets at each end of an astragal meeting. |



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:<br>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<br>For sizes shown on table 2, sheet 11:<br>TYPE 1, MADE OF: 3/16" (AN) - 0.090" PVB Saflex IIIG interlayer by Eastman Chemical-3/16"(HS)<br>For sizes over those on table 2:<br>TYPE 2, MADE OF: 3/16"(HS) - 0.090" PVB Saflex IIIG interlayer by Eastman Chemical -3/16"(HS)<br>OR<br>TYPE 3, MADE OF: 3/16" (FT) - 0.090" PVB Saflex IIIG interlayer by Eastman Chemical -3/16"(FT) |
| WP: 1 3/4" RAISED WOOD PANEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Solid Mahogany, MAX. D.L.O.<br>AREA: 7.81 sqf. See detail on sheet 9                                                                                                                                                                                                                                                                                                                                                                                                                                   |



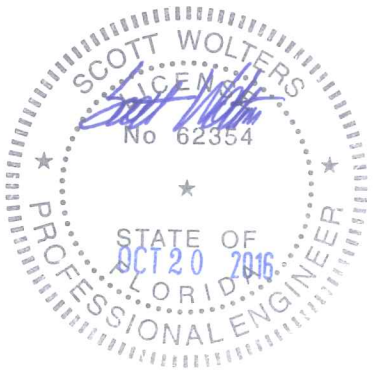
1855 GRIFFIN ROAD,  
SUITE A-271  
DANIA, FL 33004

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: 10/19/16 |                       |
| File: JS-2-IN        | Page: 4 / 12           |                       |

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# OVAL FIXED SHAPES

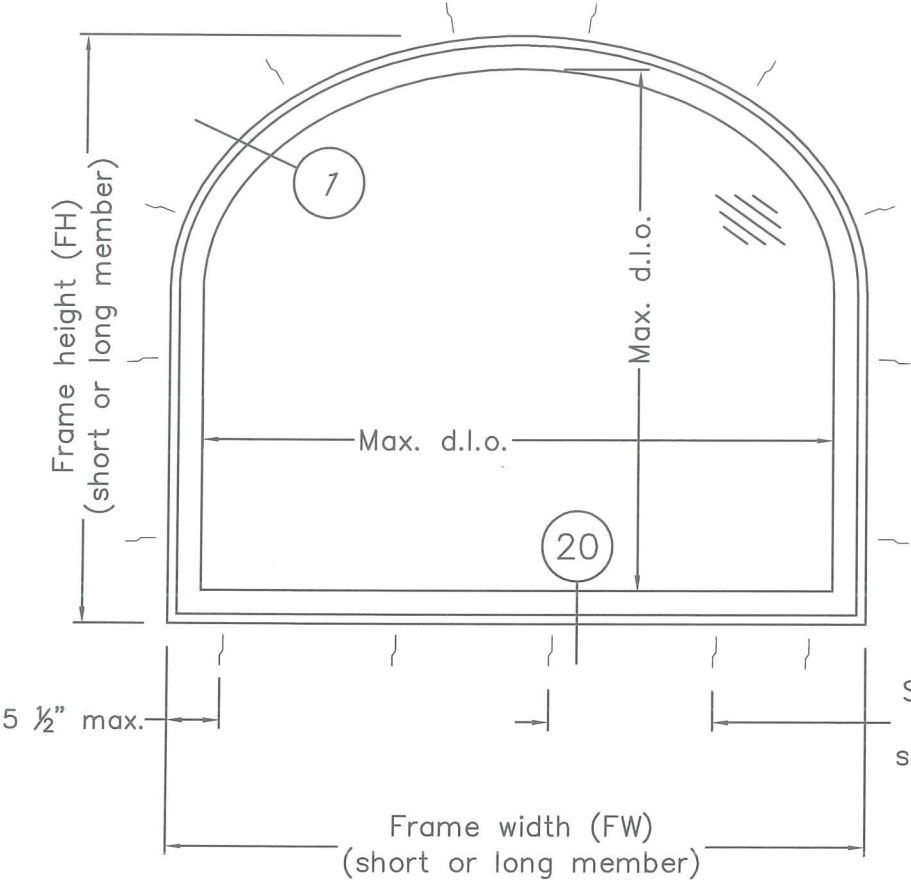
CONFIGURATIONS: O

VIEWED FROM THE INSIDE  
 WOOD: Mahogany

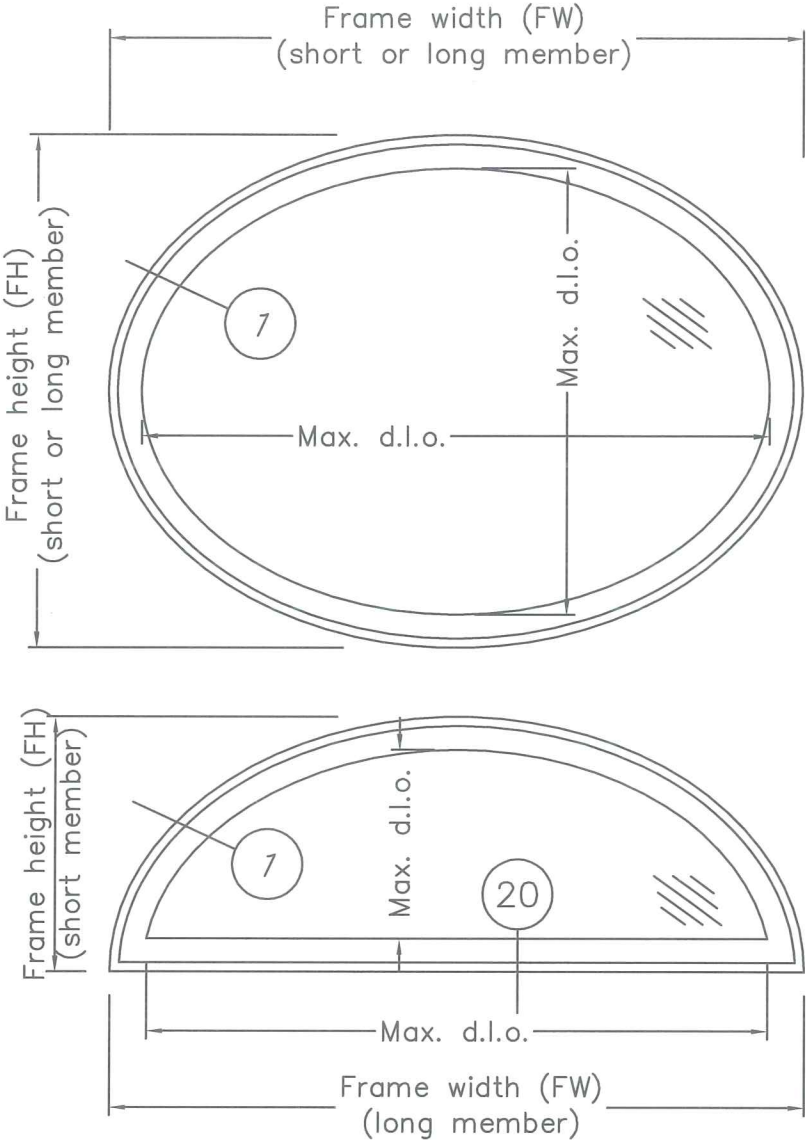
| DESIGN PRESSURE                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------|
| Positive Pressure: +58 psf<br>Negative Pressure -68 psf                                                             |
| NOTE: Refer to basic rectangles for minimum and maximum sizes width (FW) & height (FH)<br>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 chart on Sheet 1 for fastener information.  
  
 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.



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



1855 GRIFFIN ROAD,  
 SUITE A-271  
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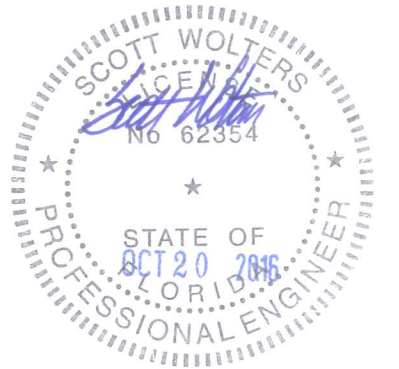
WINDOWS  
OF EUROPE AND THE AMERICAS

JS SERIES  
 WOOD FIXED WINDOWS  
 SASH INWARD

|              |               |
|--------------|---------------|
| Drawing no.: | JS-2-IN       |
| Scale:       | Drawn by:     |
| NONE         | S. Marcotte   |
| Date drawn:  | Date revised: |
| 01/10/99     | 10/19/16      |
| File:        | Page:         |
| JS-2-IN      | 5 / 12        |

STRUCTURALLY REVIEWED BY:

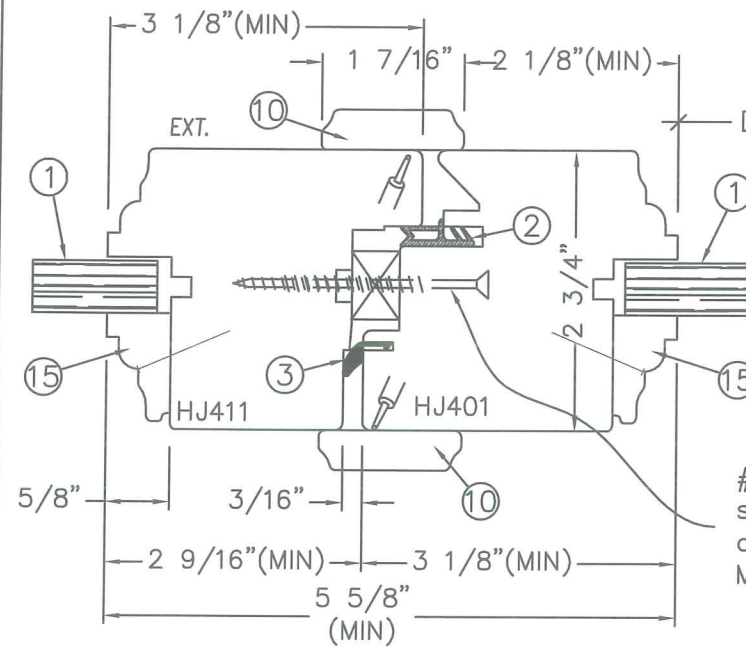
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 (COA# 27194)  
 15211 97TH ROAD N  
 WEST PALM BEACH, FL 33412



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

# FIXED ASTRAGAL

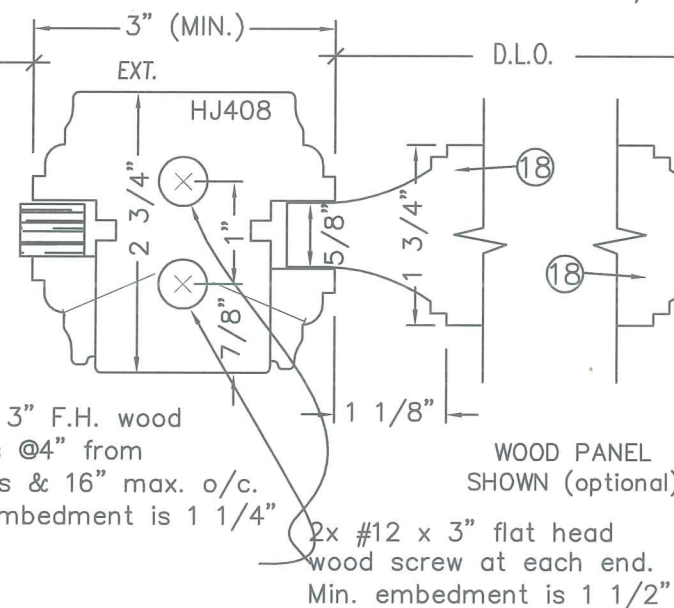
sash -inward



8a

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

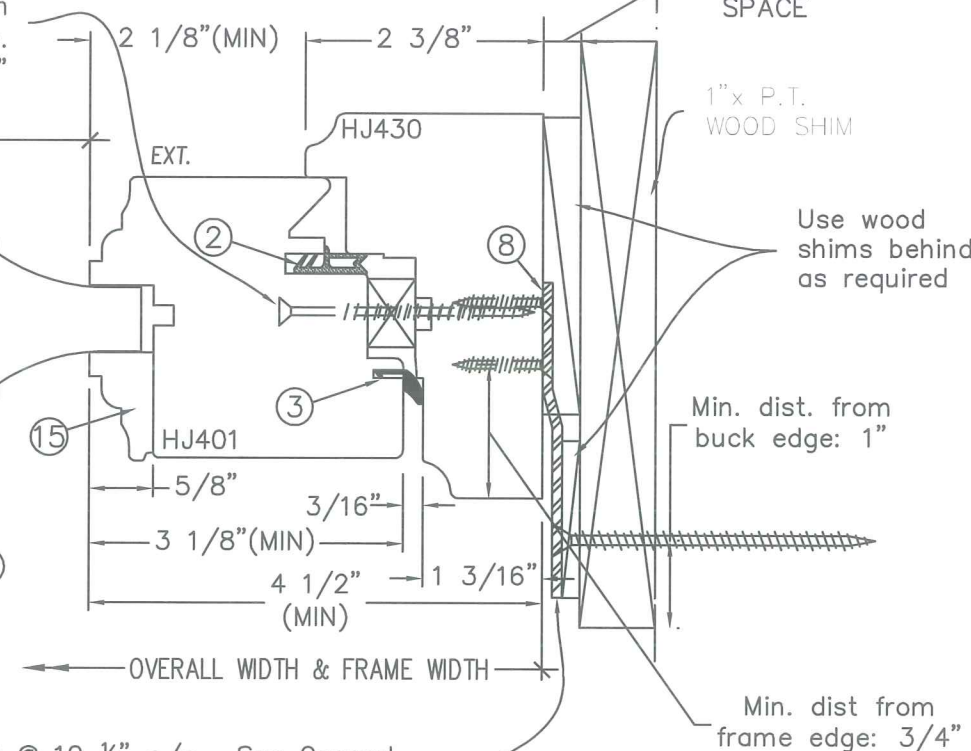
#10 x 3" F.H. wood  
screws @4" from  
corners & 16" max. o/c.  
Min. embedment is 1 1/4"



1

JAMB, sash inward  
(1x & INSTALLATION BRACKET)

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



MAX 3/8"  
SHIMS  
SPACE

1"x P.T.  
WOOD SHIM

Use wood  
shims behind  
as required

Min. dist. from  
buck edge: 1"

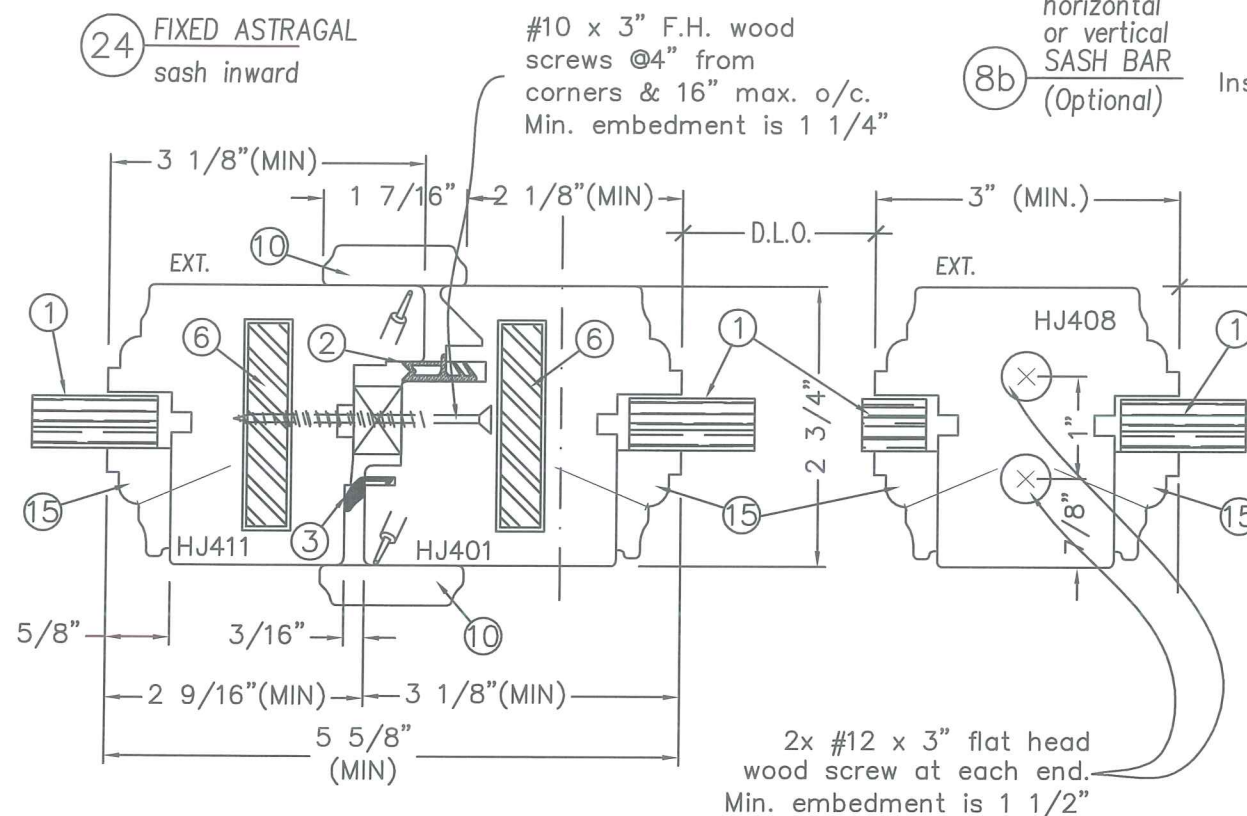
Min. dist from  
frame edge: 3/4"

Installation bracket PDF-FS-05/D @ 10 1/2" o/c. See General  
Installation chart on Sheet 1 for fastener requirements.

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

# FIXED ASTRAGAL

sash inward



8b

horizontal  
or vertical  
SASH BAR  
(Optional)

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

Installation bracket PDF-FS-05/D  
@ max. 11" o/c. See General  
Installation chart on Sheet 1  
for fastener requirements.

1

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

2" x P.T.  
WOOD BUCK

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

Min. dist from  
frame edge: 3/4"

Min. dist from  
buck edge: 3/4"

MAX 3/8"  
SHIMS  
SPACE

Use wood  
shims behind  
as required

20"-30"  
o/c dist. 7/8"

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

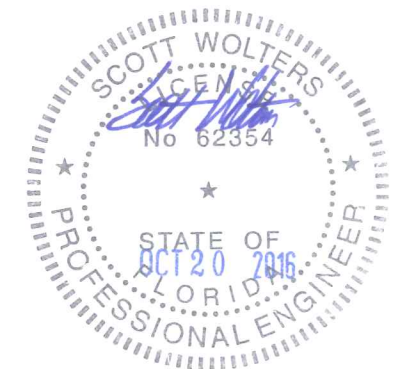
Date drawn: 01/10/99  
Date revised: 10/19/16

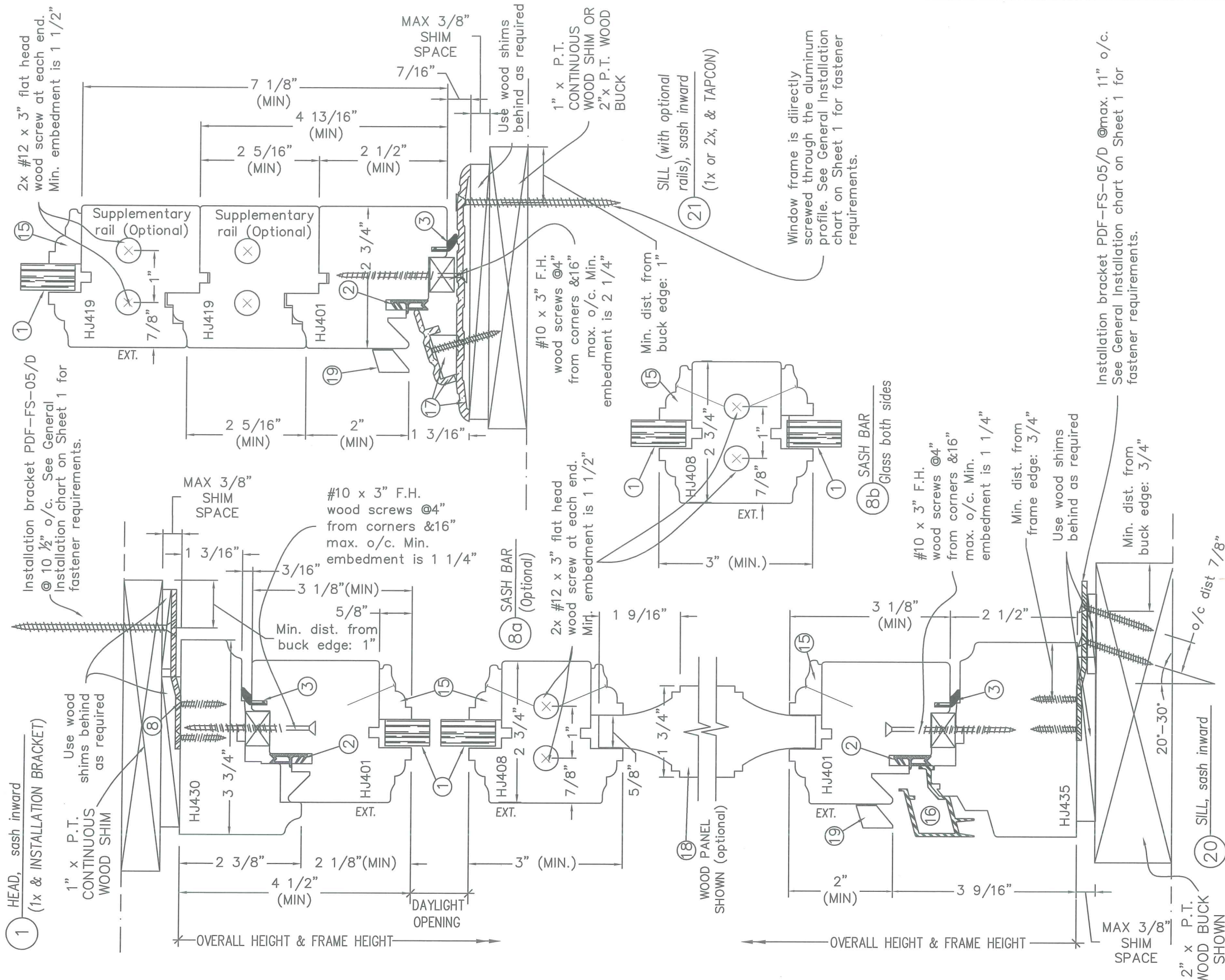
File: JS-2-IN  
Page: 6 / 12

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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

WINDOWS  
OF EUROPE AND  
THE AMERICAS

## JS SERIES WOOD FIXED WINDOWS SASH INWARD

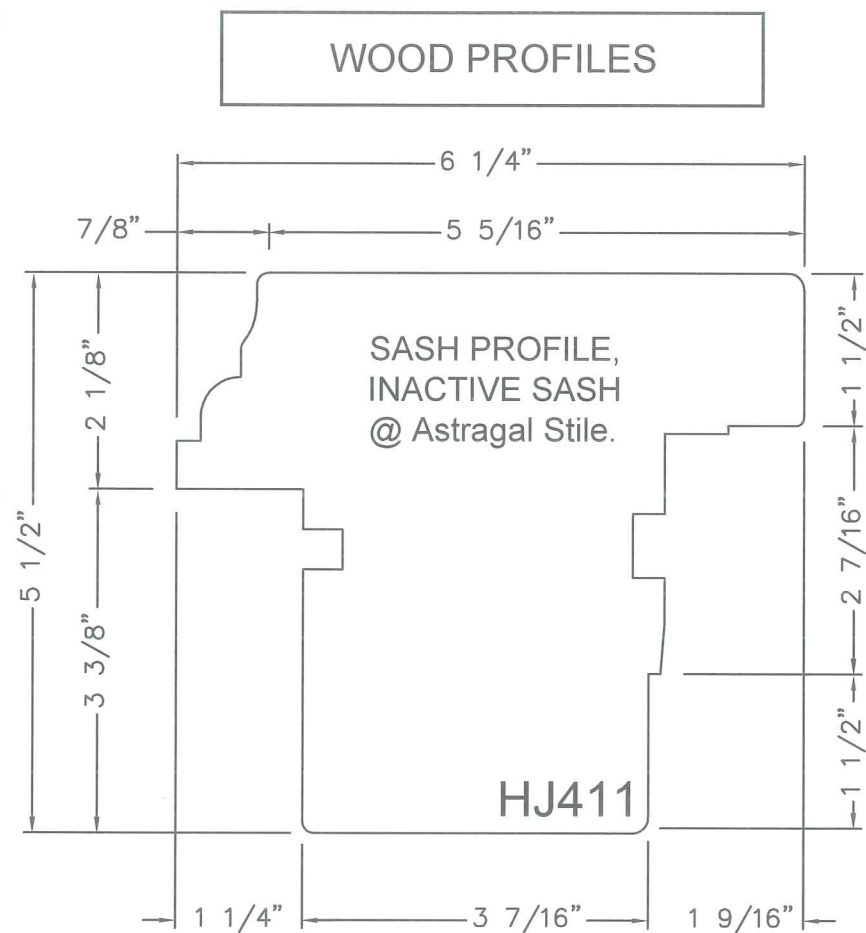
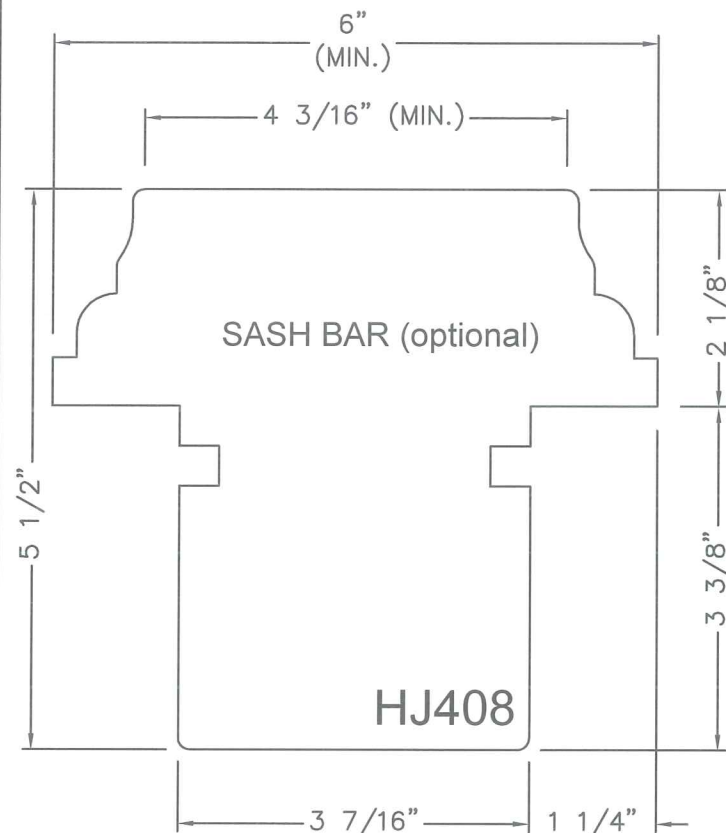
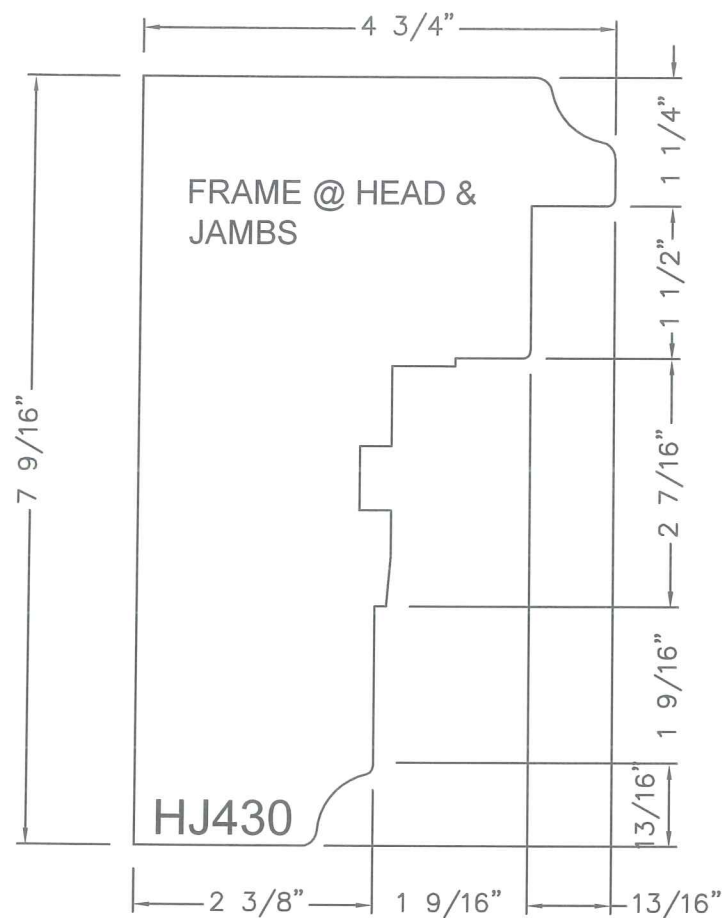
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| Drawing no.:  | JS-2-IN     |
| Scale:        | None        |
| Drawn by:     | S. Marcotte |
| Date drawn:   | 01/10/99    |
| Date revised: | 10/19/16    |
| File:         | JS-2-IN     |
| Page:         | 7 / 12      |

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

## JS SERIES WOOD FIXED WINDOWS SASH INWARD

Drawing no.: JS-2-IN

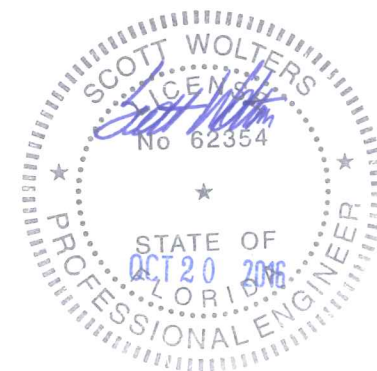
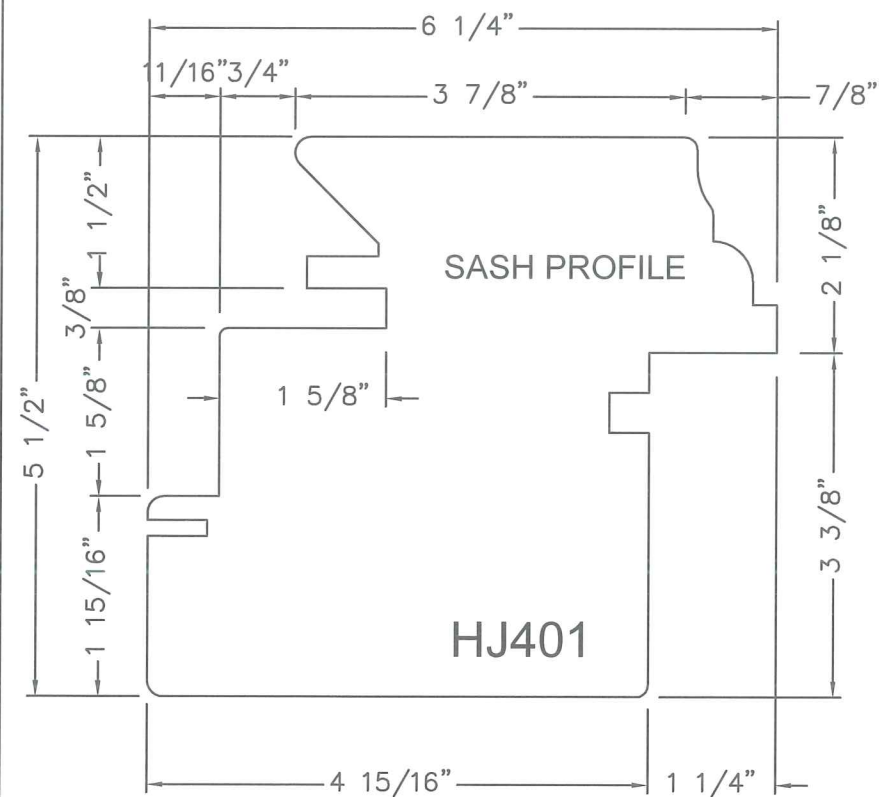
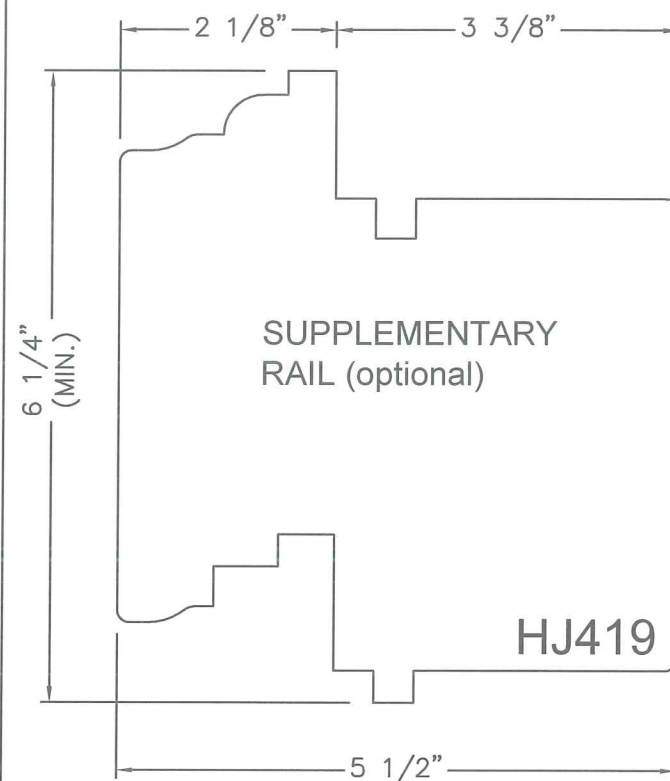
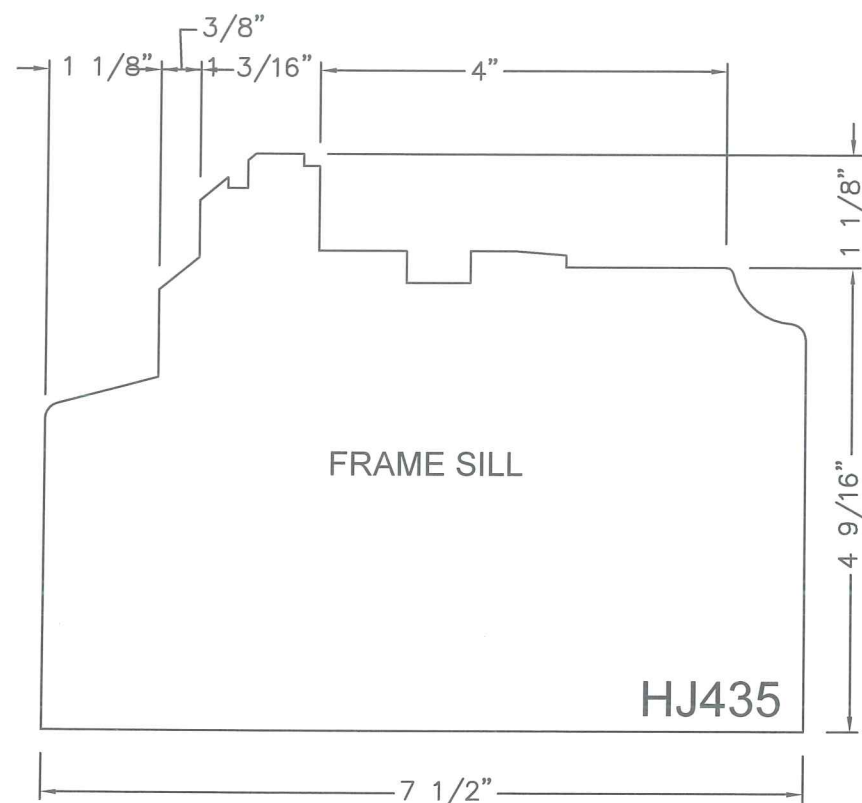
Scale: NONE  
Drawn by: S. Marcotte

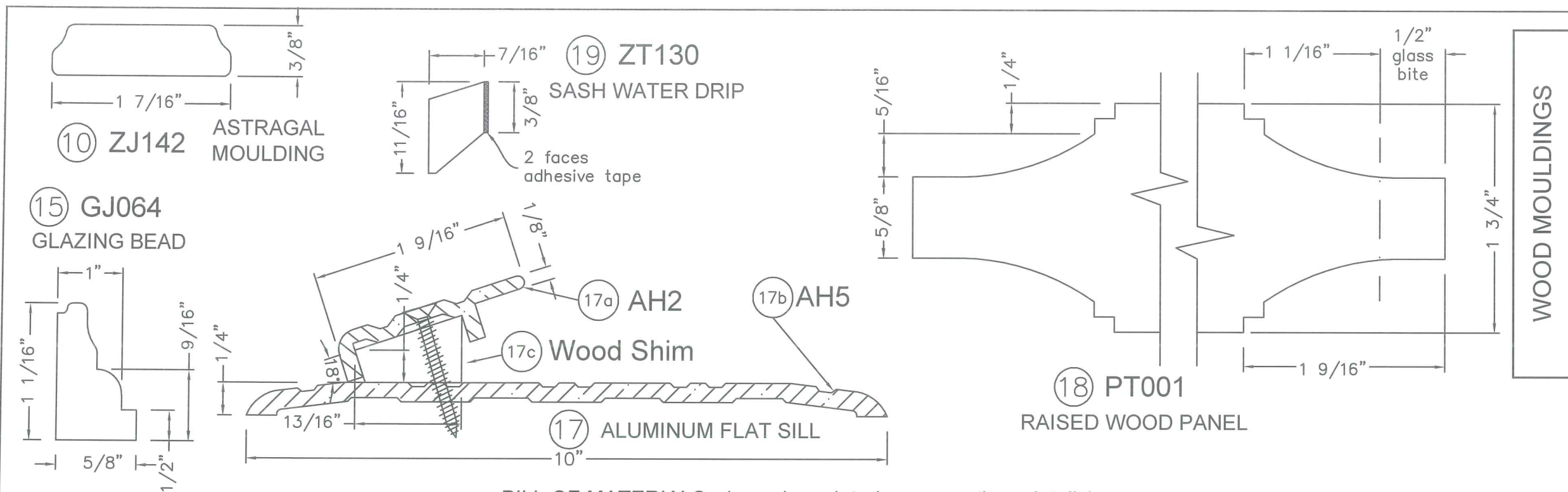
Date drawn: 01/10/99  
Date revised: 10/19/16

File: JS-2-IN  
Page: 8 / 12

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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 OUTWARD: One nailed on the interior face of the passive sash & one nailed on the exterior face of the active 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 11/12 |
| (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 1/4" 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*          | 7/8"(d) x 11/16"(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                                                                                        |
|       |                        |                   |                                                           |                    |                                       |                                                                     |                                                                                                                                         |

\* Mahogany is Honduran Mahogany, with S.G.=0.45 (min) and E=1.4x10<sup>6</sup> psi (min).

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

Clear "Spectrem 2" silicone sealant at shown interfaces



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

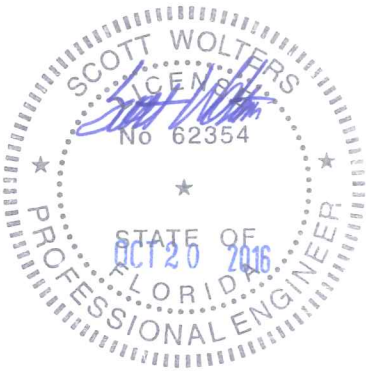
WINDOWS  
OF EUROPE AND  
THE AMERICAS

JS SERIES  
WOOD FIXED WINDOWS  
SASH INWARD

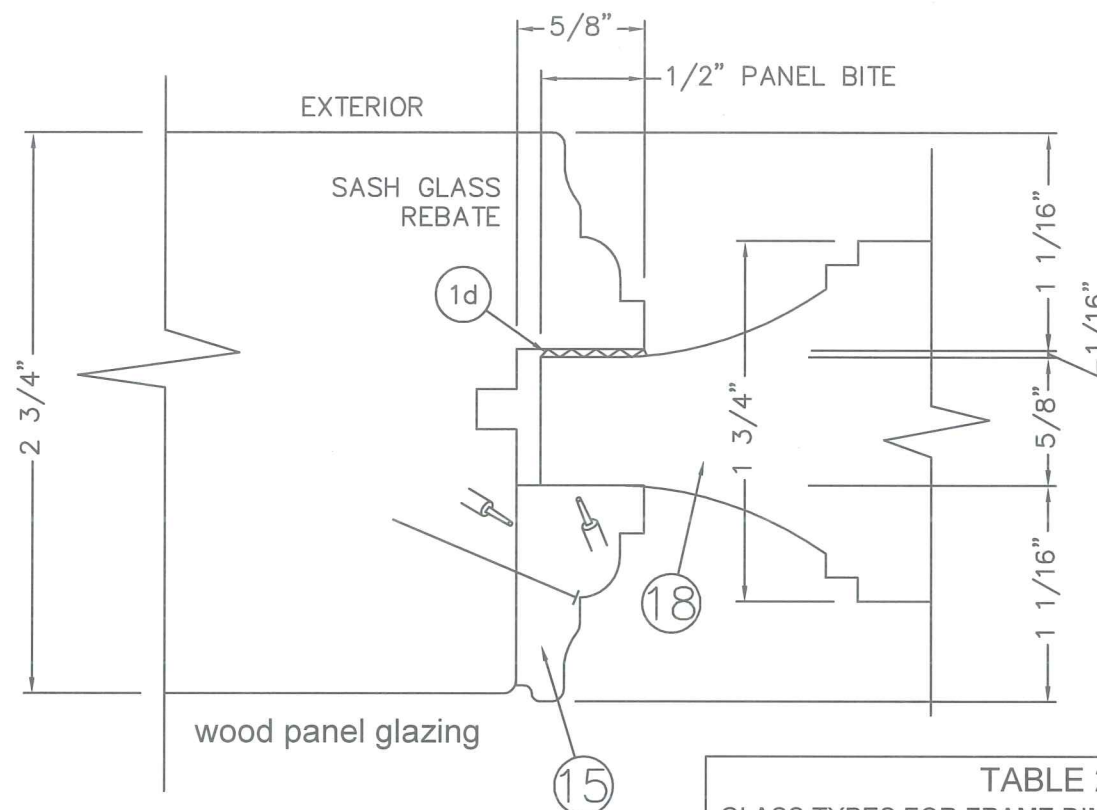
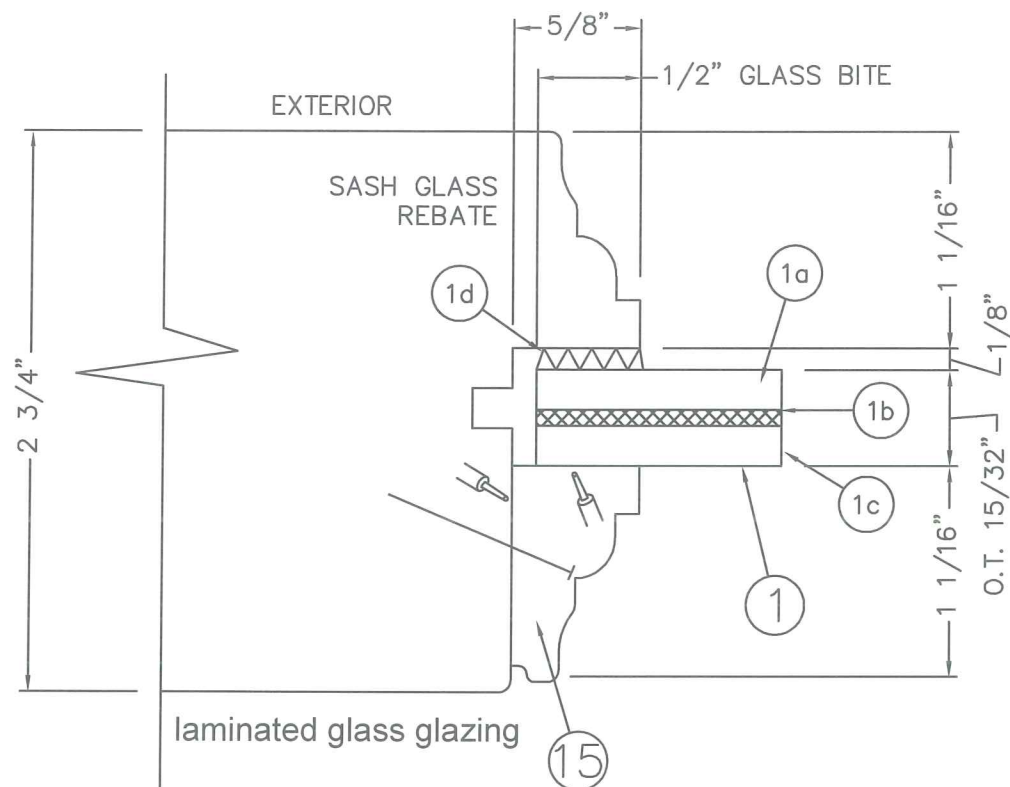
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| Drawing no.: | JS-2-IN       |
| Scale:       | Drawn by:     |
| NONE         | S. Marcotte   |
| Date drawn:  | Date revised: |
| 01/10/99     | 10/19/16      |
| File:        | Page:         |
| JS-2-IN      | 9 / 12        |

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GLAZING METHOD (inside glazed)

#### 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:<br>>Type 1: Annealed glass for d.l.o. dimensions on table 3<br>>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 Eastman Chemical | 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

① 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 strenghtened laminated glass  
[3/16" HS - .09" PVB interlayer, Saflex IIIG by Solutia - 3/16" HS]

OR TYPE 3 full tempered laminated glass  
[3/16" FT - .09" PVB interlayer, Saflex IIIG 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                         |

### 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: 10/19/16

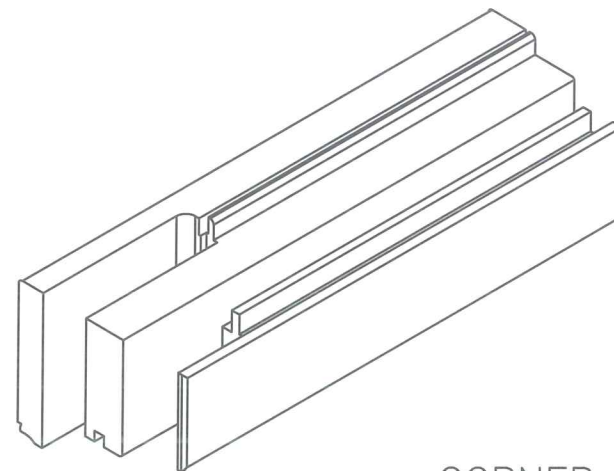
File: JS-2-IN  
Page: 11 / 12

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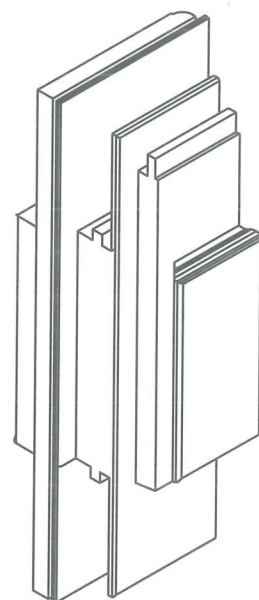
WOLTERS ENGINEERING, INC.  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412



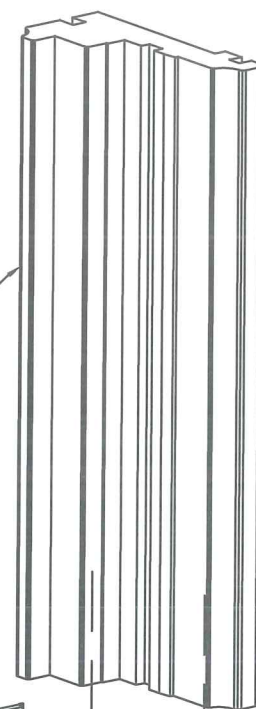


TYPE OF GLUE:  
RESIBOIS 222 no 30222-01 TYPE 1  
EXTERIOR GLUE FOR WOOD

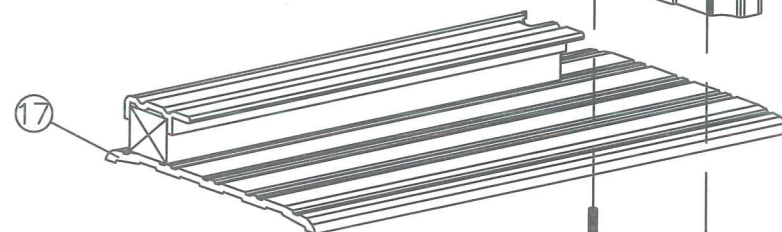
CORNER  
ASSEMBLY  
(MULTI-FORK)



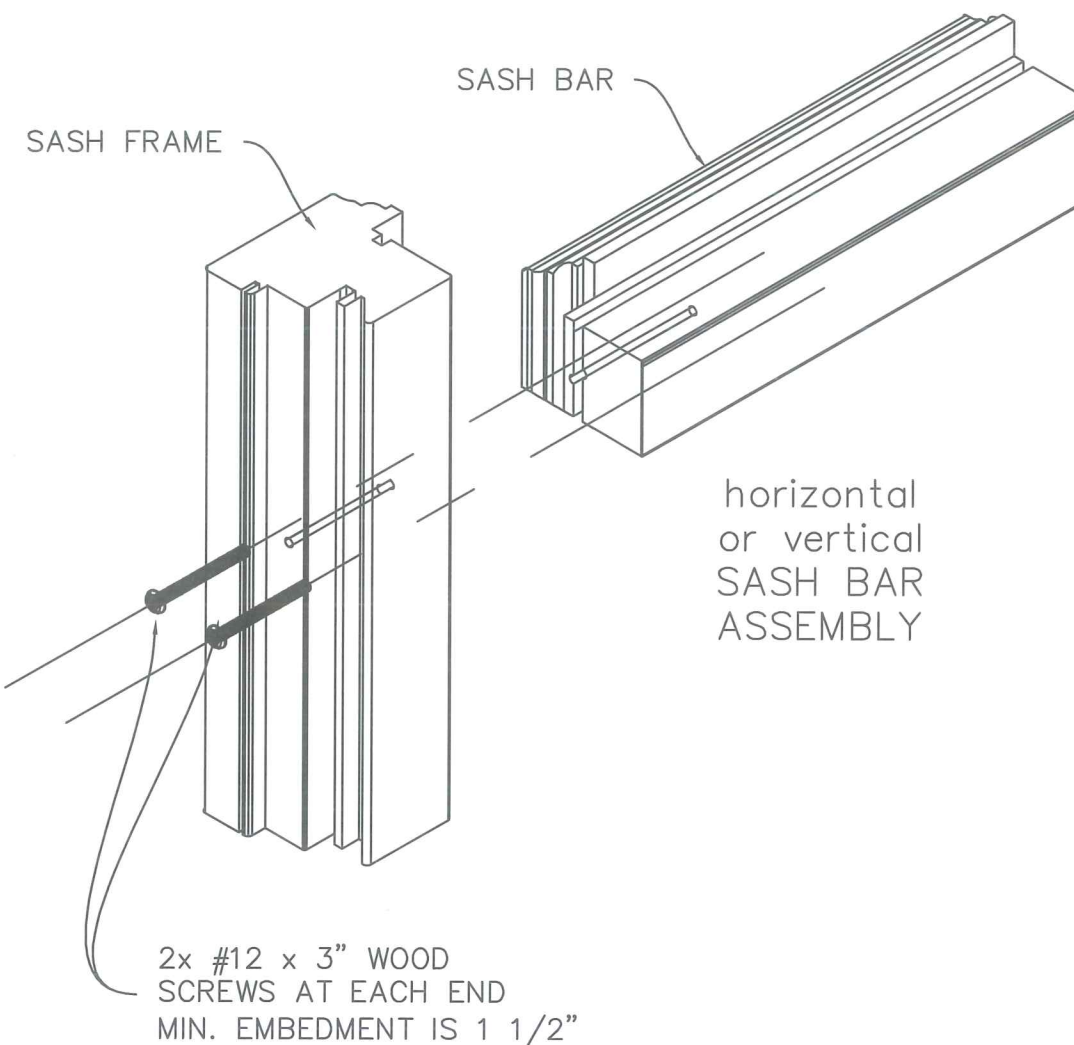
FRAME JAMB



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"



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: 10/19/16

File: JS-2-IN  
Page: 12 / 12

STRUCTURALLY REVIEWED BY:

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