

TILT & TURN (DUAL ACTION)
WOOD WINDOWS, INSWING
ELEVATION VIEWS
CONFIGURATIONS: x, xx
WOOD: Mahogany
VIEWED FROM THE INSIDE

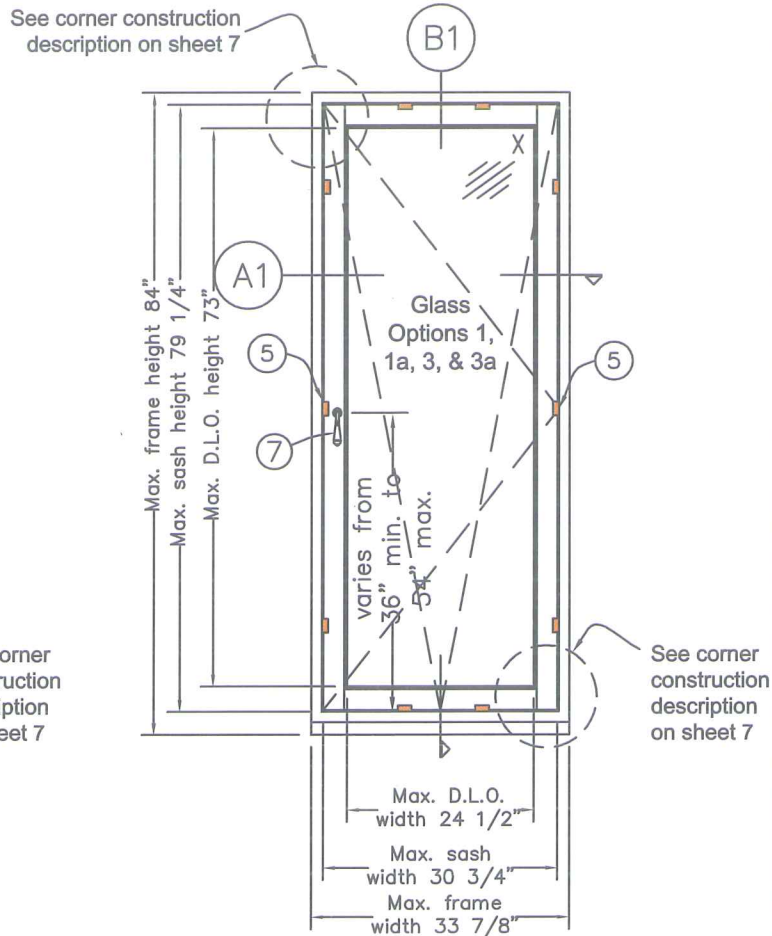
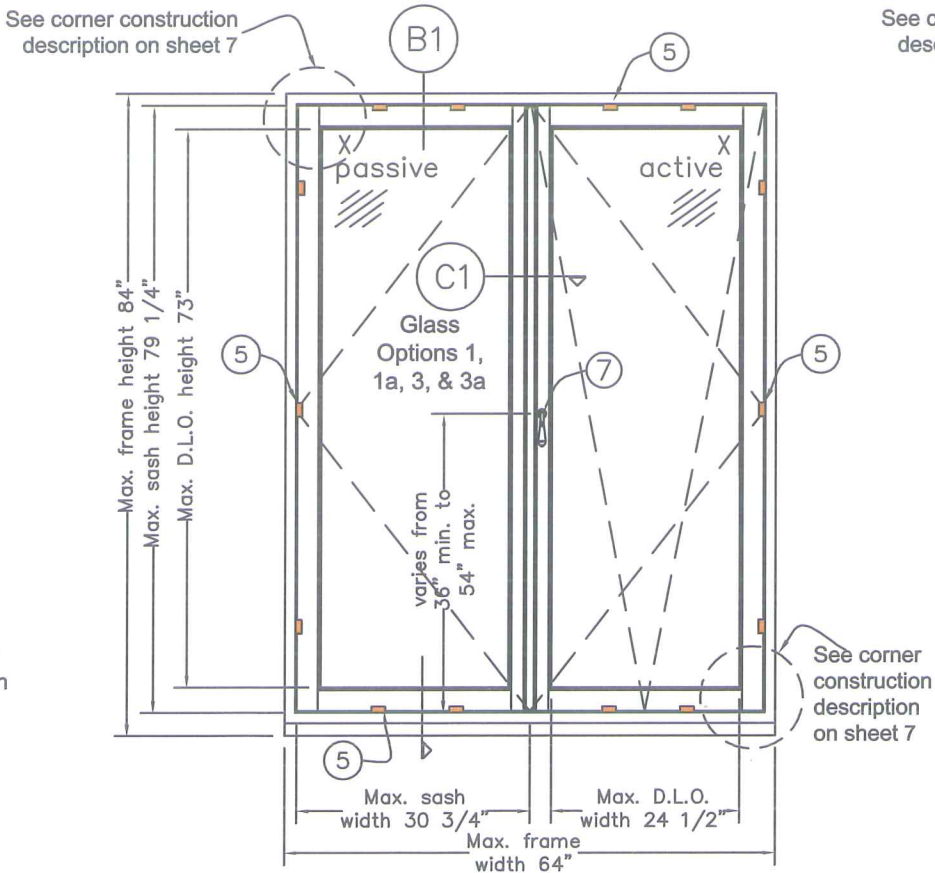
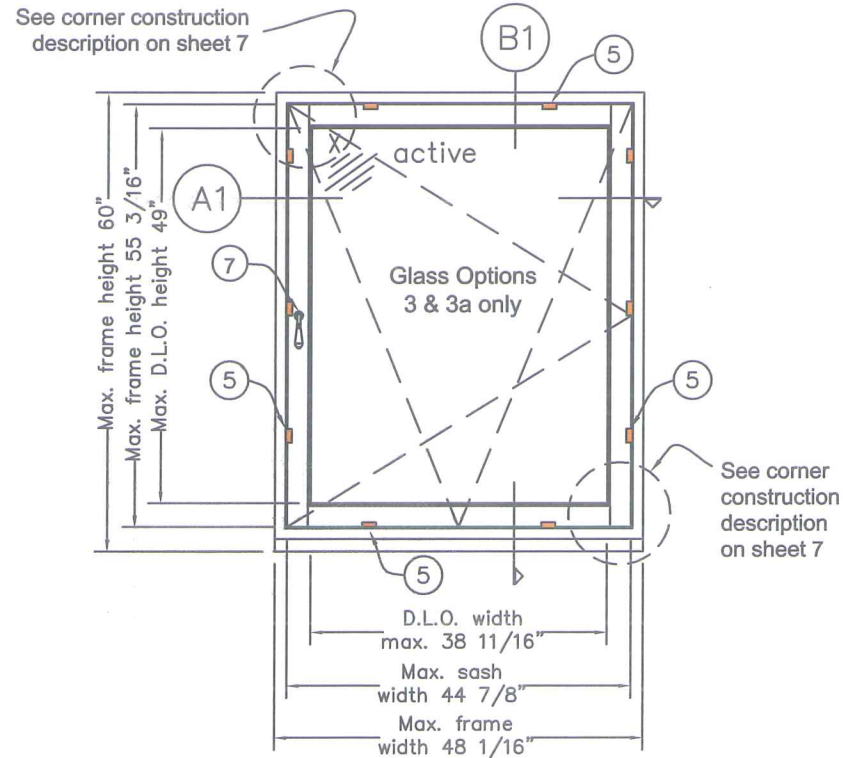
DESIGN PRESSURE APPLYING TO THIS PAGE
Single Casements (x): Acting inward: +65 psf Acting outward: -85 psf
Double Casements (xx): Acting inward: +60 psf Acting outward: -70 psf
Note: All sizes noted are maximum sizes. Sizes smaller in width & height are permitted.
Shutters are not required.

GENERAL NOTES:

- 1- THIS PRODUCT IS DESIGNED TO COMPLY WITH THE 5TH EDITION OF THE FLORIDA BUILDING (2014), INCLUDING THE HVHZ PROVISIONS.
- 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 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 $C_d = 1.6$ WAS USED TO VERIFY THEIR SPACING IN WOOD SUBSTRATES.
- 6- ALL WOOD NOT SEPARATED FROM AND/OR IN DIRECT CONTACT WITH CONCRETE AND MASONRY SHALL BE TREATED IN AN APPROVED PRESERVATIVE OR SHALL BE AN APPROVED DURABLE SPECIES PER FBC CHAPTER 23.

FOR ANCHOR SPACING, SEE
ANCHOR REQUIREMENTS TABLE
ON SHEET 4.

NOTE: Numbers in circle are referred
to the bill of materials on sheet 5.



GLAZING TYPE TABLE

GLASS: SINGLE, LAMINATED

OPTION 1: 3/16"(AN) - 0.090" Saflex PVB Interlayer - 3/16"(HS)
OPTION 3: 5/32"(AN) - 0.075" Saflex CP Interlayer - 5/32"(AN)

GLASS: INSULATED, LAMINATED

OPTION 1a: 1" Insulated Laminated. 3/16"(AN) - 0.090" Saflex PVB Interlayer - 3/16"(HS) - 3/8" air space - 5/32"(AN).
OPTION 3a: 1" Insulated Laminated. 5/32"(AN)-0.075" Saflex CP Interlayer - 5/32"(AN) - 7/16" air space - 5/32"(AN).

RAISED WOOD PANEL: (specific gravity of 0.59)

Max. DLO area:
-Solid mahogany wood: Max. 7.81 sqf

NOTE:
-See Glazing Details on sheet 5



JS SERIE
TILT & TURN INSWING
WOOD WINDOWS
MIAMI DADE COUNTY

Drawing no.: JS-TT-1

Scale: NONE
Drawn by: S. Marcotte

Date drawn: 07/03/07
Date revised: 12/14/16

File: JS-TT-1
Page: 1/7

STRUCTURALLY REVIEWED BY:

SCOTT WOLTERS
FL PE# 62354

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CROSS SECTION VIEWS

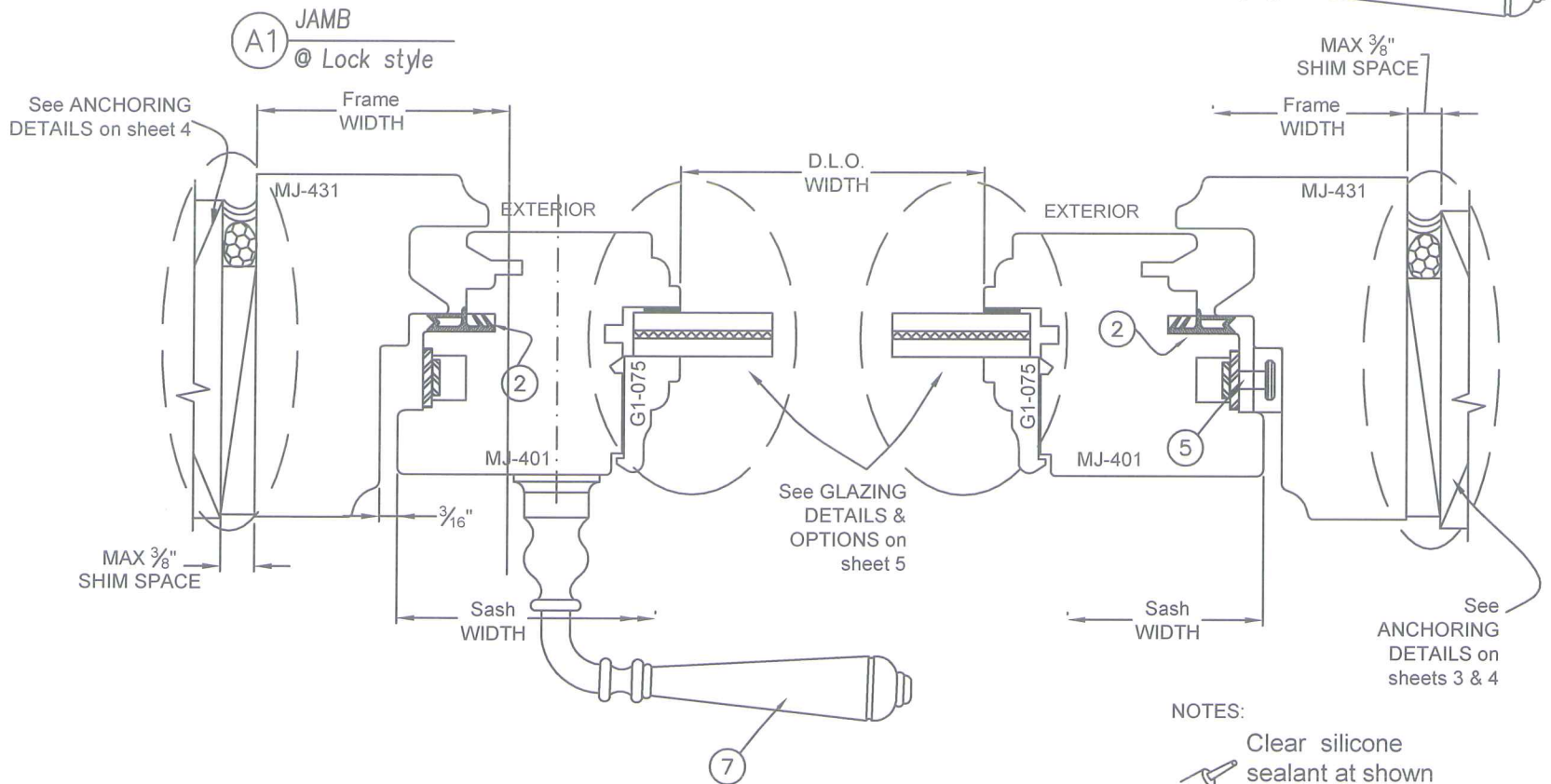
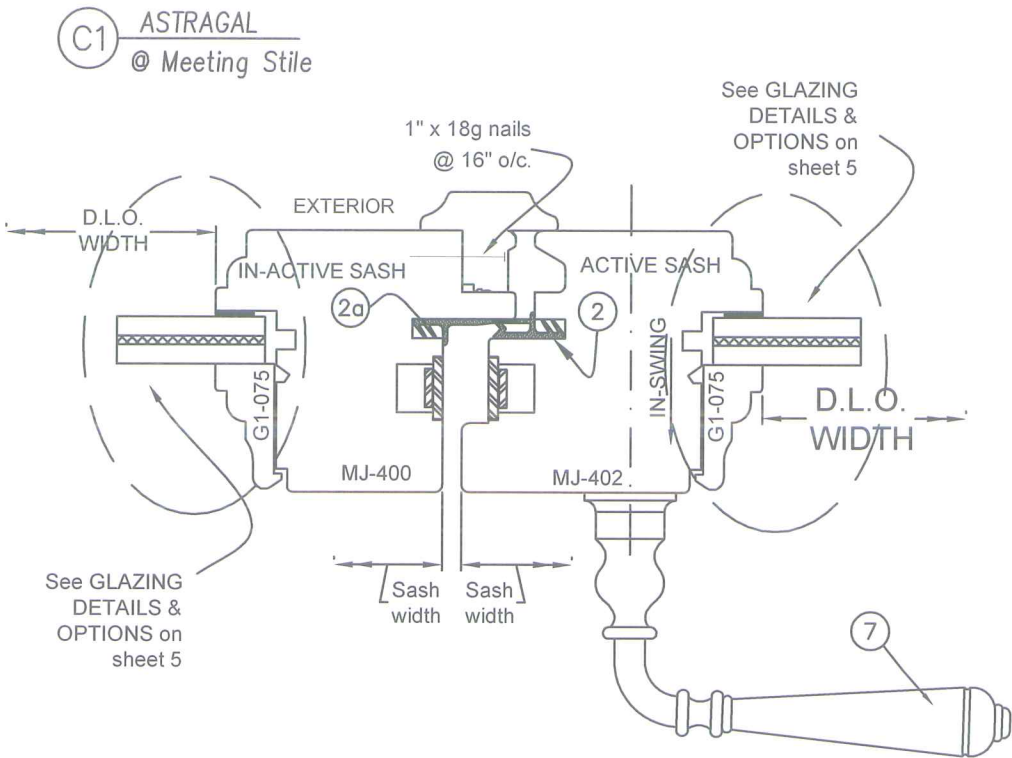
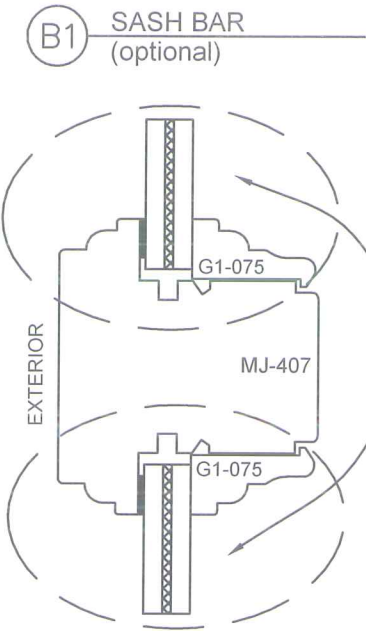
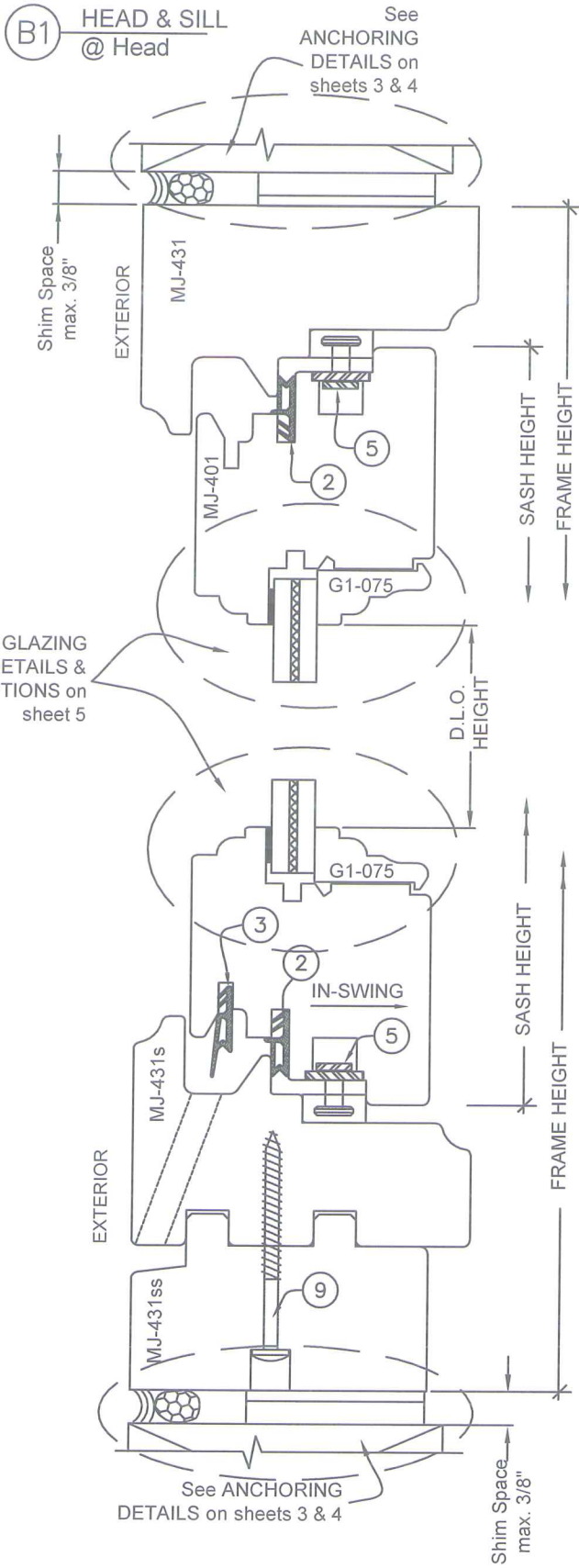
JS SERIE
TILT & TURN INSWING
WOOD WINDOWS
MIAMI DADE COUNTY

Drawing no.: JS-TT-1	
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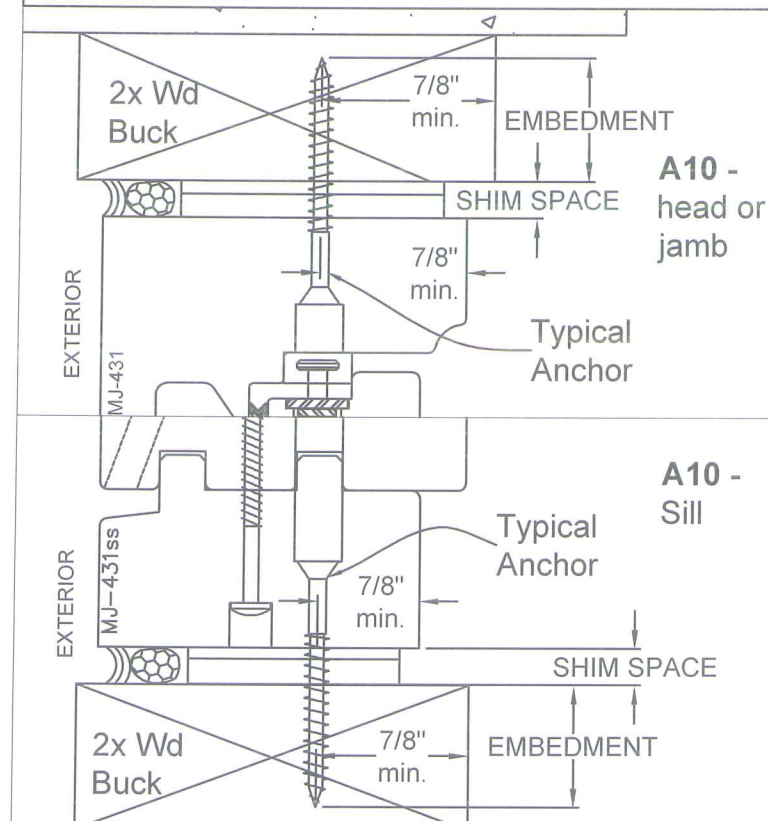
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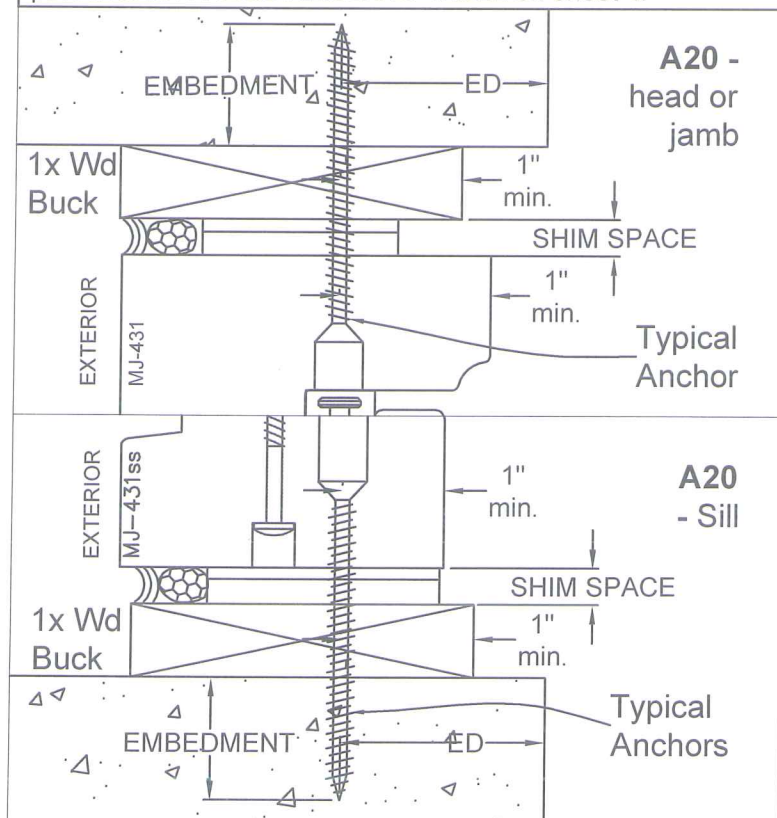
- NOTES:
-  Clear silicone sealant at shown interfaces
 -  Backing rod and sealant as required
 -  Numbers are referring to bill of materials (sheet 5)

ANCHORING DETAILS VIEWS

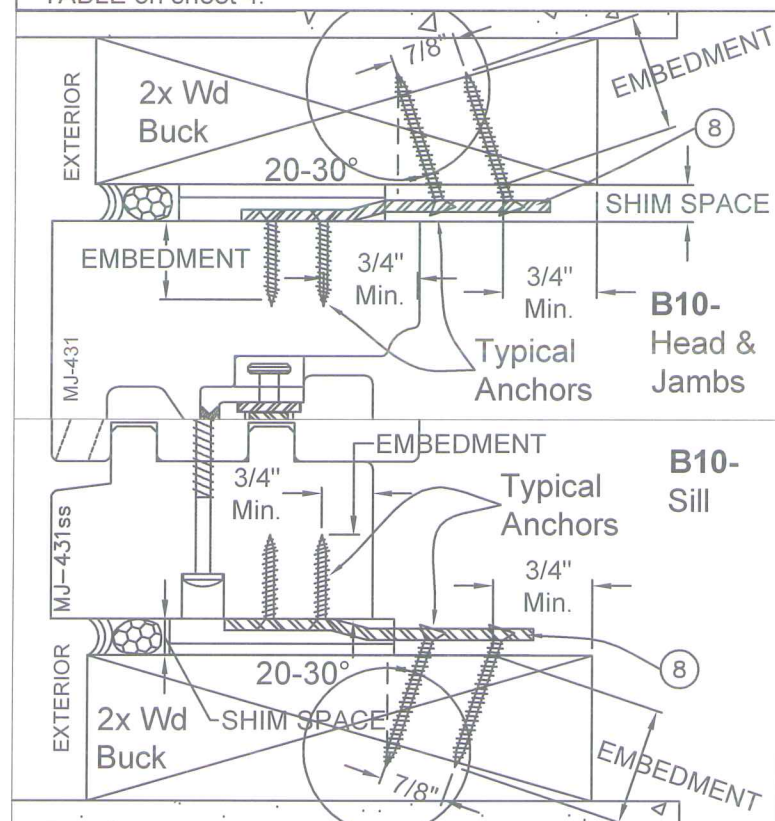
A10 - Typical direct anchor on 2x wood buck using wood screws. Size and spacing as per ANCHOR REQUIREMENTS TABLE on sheet 4.



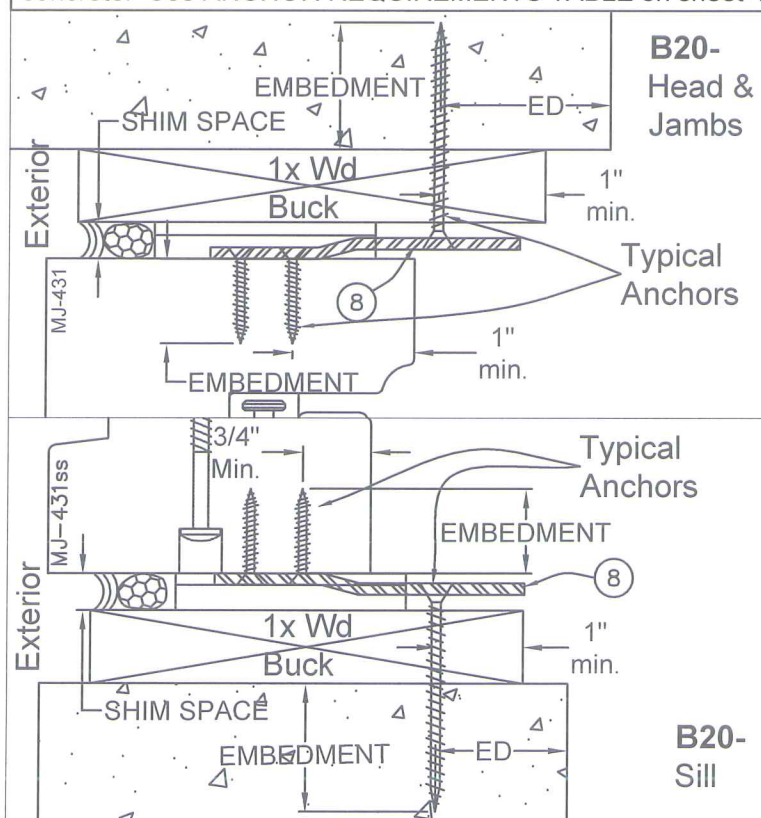
A20 - Typical direct anchor through 1x wood buck into concrete using Elco Ultracon or ITW Tapcon screws. Size and spacing as per ANCHOR REQUIREMENTS TABLE on sheet 4.



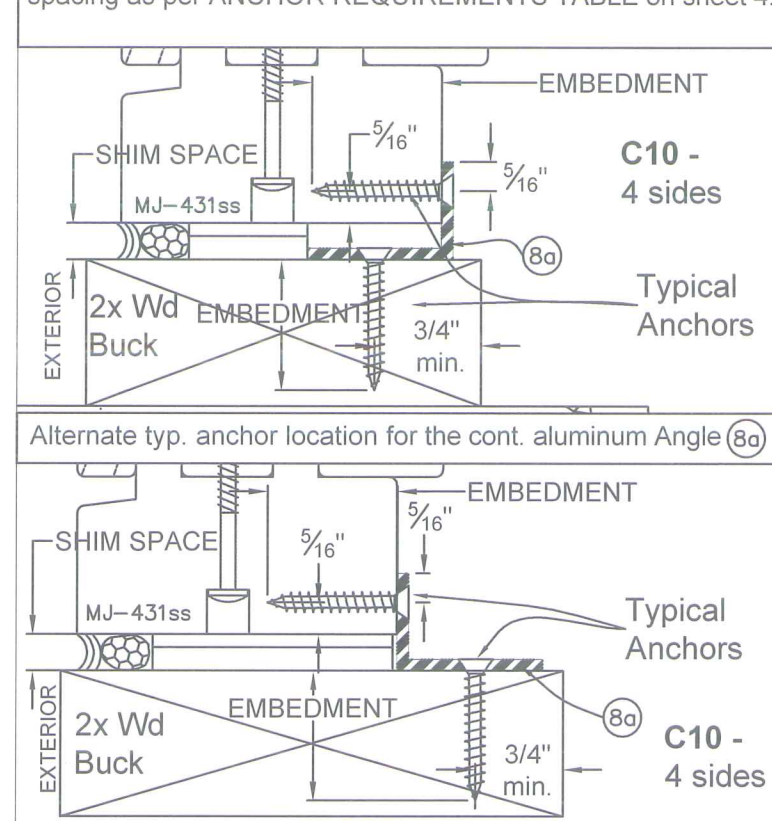
B10 - Typical anchor using Installation Bracket (8) on 2x wood buck using wood screws as per ANCHOR REQUIREMENTS TABLE on sheet 4.



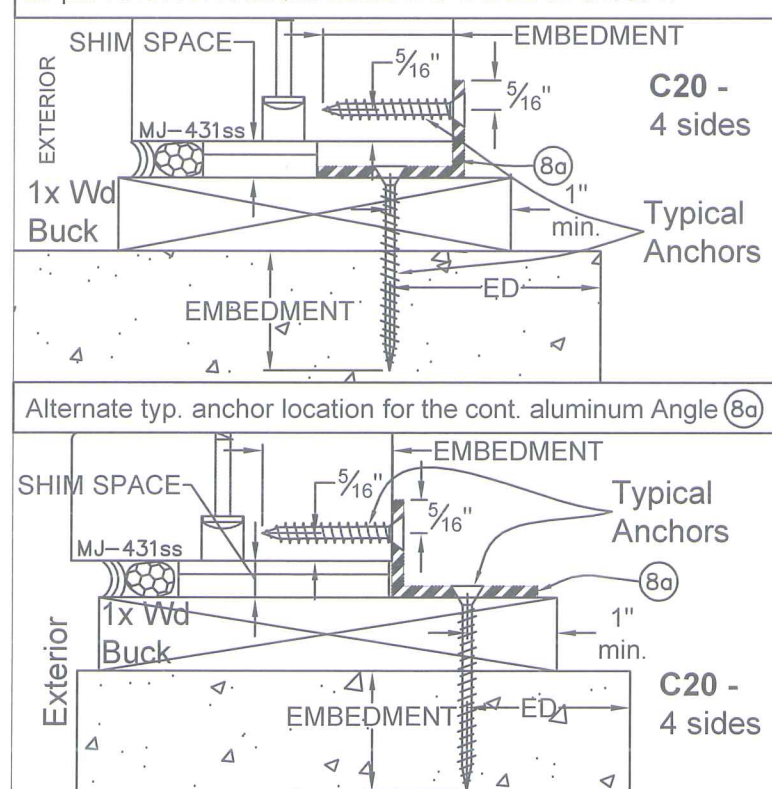
B20 - Typical anchor w/ Installation Bracket (8) using Elco Ultracon or ITW Tapcon screws through 1x wood buck into concrete. See ANCHOR REQUIREMENTS TABLE on sheet 4.



C10 - Typical anchor w/ Continuous Aluminum Angle (8a) using wood screws in 2x wood buck and window frame. Size and spacing as per ANCHOR REQUIREMENTS TABLE on sheet 4.



C20 - Typical anchor w/ Continuous Aluminum Angle (8a) using Elco Ultracon or ITW Tapcon screws through 1x wood buck into concrete and wood screw into window frame. Size and spacing as per ANCHOR REQUIREMENTS TABLE on sheet 4.



JS SERIE TILT & TURN INSWING WOOD WINDOWS MIAMI DADE COUNTY

Drawing no.: JS-TT-1

Scale: NONE Drawn by: S. Marcotte

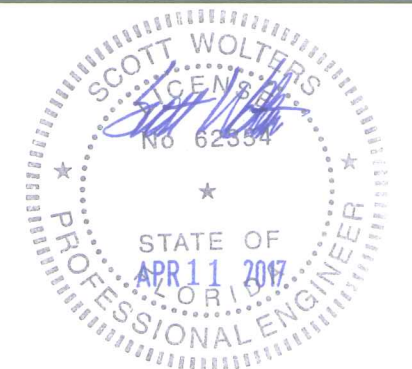
Date drawn: 07/03/15 Date revised: 12/14/16

File: JS-TT-1 Page: 3/7

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ANCHOR REQUIREMENTS TABLE

Anchoring method	Substrate	Inst. Ref. No.	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 (shear screws)	2x_ wood buck	A10 4 sides	Through the unit frame into the wood buck (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	A20 4 sides	Through the buck frame into concrete (f'c=2846 psi min) or cmu (ASTM C90 min): (1) 1/4" x 2 3/4" Elco Ultracon or ITW Tapcon screw.	5 1/2"	5 1/2"	1"	2 1/2"	1"	1 1/4"	-----
		A30 4 sides	Through the buck frame into steel (18 ga, 45 ksi min) or alum. (1/8", 6063-T6 min): (1) 1/4" x 2 3/4" Elco Drill-flex or ITW Teks screw.	5 1/2"	5 1/2"	1"	1"	1"	Full*	-----
PDF-FS-05/D Installation bracket	2x_ wood buck	B11 head/ jamb	To the wood buck (S.G.=0.5 min): (2) #12 X 1 1/2" (a.T.) wood screws. Into the unit frame: (2) # 10 x 1" a.T. wood screws.	5 1/2"	11"	7/8"	-----	3/4"	1 1/4"	7/8"
	1x_ wood buck	B12 sill	To the wood buck (S.G.=0.5 min): (2) #12 X 1 1/2" (a.T.) wood screws. Into the unit frame: (2) # 10 x 1" a.T. wood screws.	5 1/2"	6 1/2"	7/8"	-----	7/8"	1 1/4"	7/8"
		B21 head/ jambs	Through the buck frame into concrete (f'c=2846 psi min) or cmu (ASTM C90 min): (1) 1/4" x 2 3/4" Elco Ultracon or ITW Tapcon screw. Into the 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"
		B22 sill	Through the buck frame into concrete (f'c=2846 psi min) or cmu (ASTM C90 min): (1) 1/4" x 2 3/4" Elco Ultracon or ITW Tapcon screw. Into the unit frame: (2) #10 x 1" a.T. wood screws.	5 1/2"	6 1/2"	1"	1"	3/4"	1 1/4"	7/8"
		B31 head/ jambs	Through the buck frame into steel (18 ga, 45 ksi min) or alum. (1/8", 6063-T6 min): (1) 1/4" x 2 3/4" Elco Drill-flex or ITW Teks screw. Into the unit frame: (2) #10 x 1" a.T. wood screws.	5 1/2"	10 1/2"	1"	1"	7/8"	Full*	7/8"
		B32 sill	Through the buck frame into steel (18 ga, 45 ksi min) or alum. (1/8", 6063-T6 min): (1) 1/4" x 2 3/4" Elco Drill-flex or ITW Teks screw. Into the unit frame: (2) #10 x 1" a.T. wood screws.	5 1/2"	6 1/2"	1"	2 1/2"	3/4"	Full*	7/8"
Continuous aluminum angle.	2x_ wood buck	C10 sill	To the unit sill and to the wood buck (S.G.=0.5 min): (1) #12 x1 1/2" a. T. wood screw.	5 1/2"	10"	3/4"	-----	3/4"	1 1/4"	1 1/4"
	1x_ wood buck	C20 sill	Through the buck into concrete (f'c= 2826 psi min) or cmu (ASTM C90 min): 1/4" x 2 3/4" Elco Ultracon or ITW Tapcon. Into the unit sill: (1) #12 x1 1/2" a.T. wood screw.	5 1/2"	7"	1"	2 1/2"	3/4"	1 1/4"	1 1/4"
		C30 sill	Through the buck into steel (18 ga, 45 ksi min) or alum. (1/8", 6063-T6 min): (1) 1/4" x 2 3/4" Elco Drill-flex or ITW Teks screw. Into the unit sill: (1) #12 x 1 1/2" a.T. wood screws.	5 1/2"	10"	1"	1"	3/4"	Full*	1 1/4"

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

NOTES:

- All shim spaces between window frame and wood buck max. 3/8" @ head, jambs and sill. Use std wood or plastic shims.
- Jambs anchoring identical to head anchoring shown
- Wood bucks (by others) and openings must be designed by the professional of record to properly transfer wind loads to the main structure.
- Installation brackets (8) and aluminun angles(8a) may be positioned at the interior or exterior side of the window.
- Materials, including but not limited to steel & steel screws that come in contact with other dissimilar materials shall meet the requirements of the Florida Building Code.

Backings rod and sealant as required

Numbers in circle are referring to bill of materials (sheet 5)



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

WINDOWS
OF EUROPE AND
THE AMERICAS

JS SERIE
TILT & TURN INSWING
WOOD WINDOWS
MIAMI DADE COUNTY

Drawing no.: JS-TT-1

Scale: NONE
Drawn by: S. Marcotte

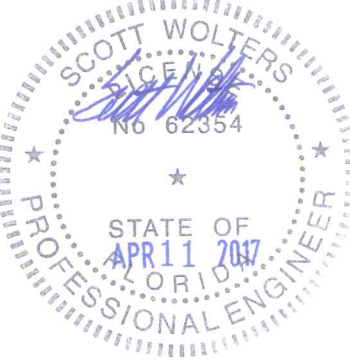
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Page: 4/7

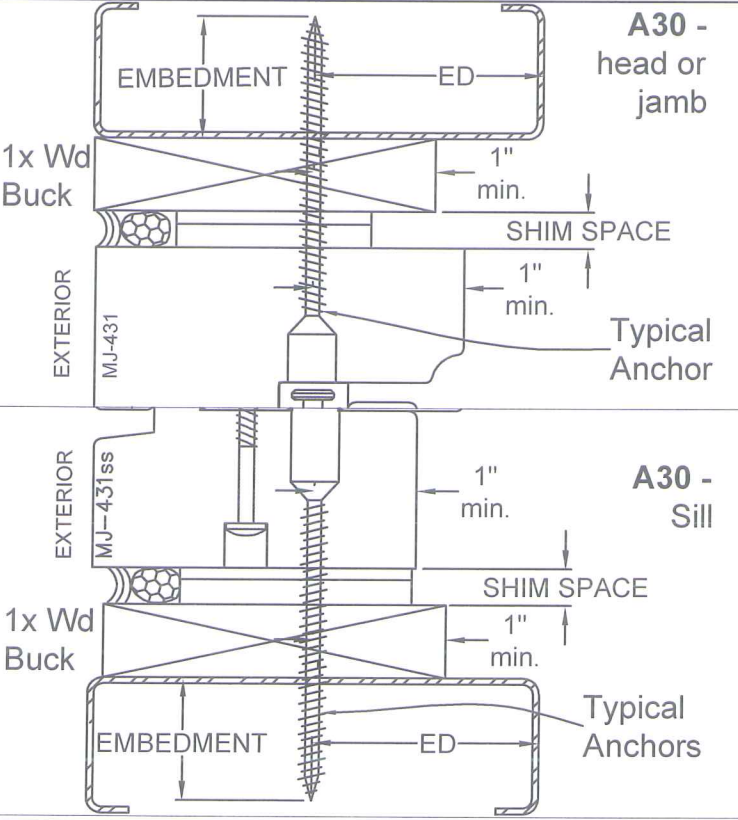
STRUCTURALLY REVIEWED BY:

SCOTT WOLTERS
FL PE# 62354

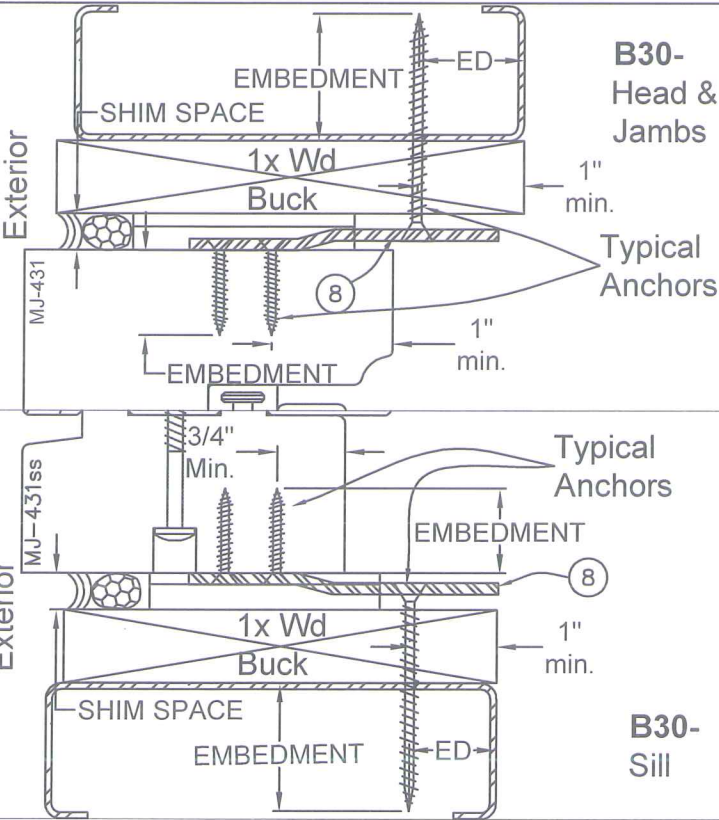
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
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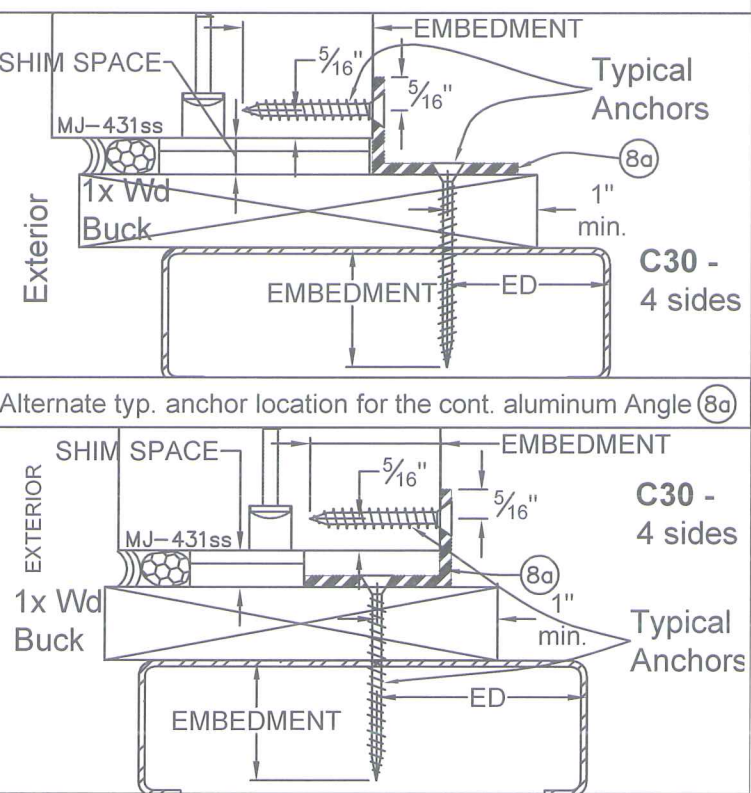
A30 - Typical direct anchor through 1x wood buck into steel or alum. using Elco Drill-flex or ITW Teks screws. See ANCHOR REQUIREMENTS TABLE on this sheet for more information.



B30 - Typical anchor w/ Installation Bracket (8) using Elco Drill-flex or ITW Teks screws through 1x wood buck into steel or aluminum. See table on this sheet for more info.



C20 - Typical anchor w/ Continuous Aluminum Angle (8a) using Elco Drill-flex or ITW Teks screws through 1x wood buck into steel or aluminum, and wood screws into window frame. See ANCHOR REQUIREMENTS TABLE on this sheet for more info.



**JS SERIE
TILT & TURN INSWING
WOOD WINDOWS
MIAMI DADE COUNTY**

Drawing no.: JS-TT-1

Scale: NONE
Drawn by: S. Marcotte

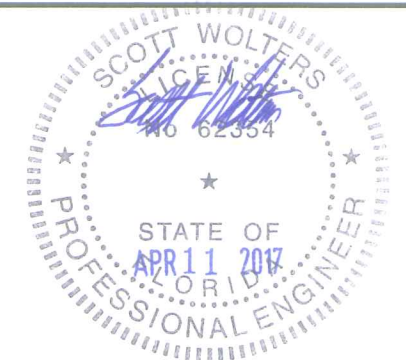
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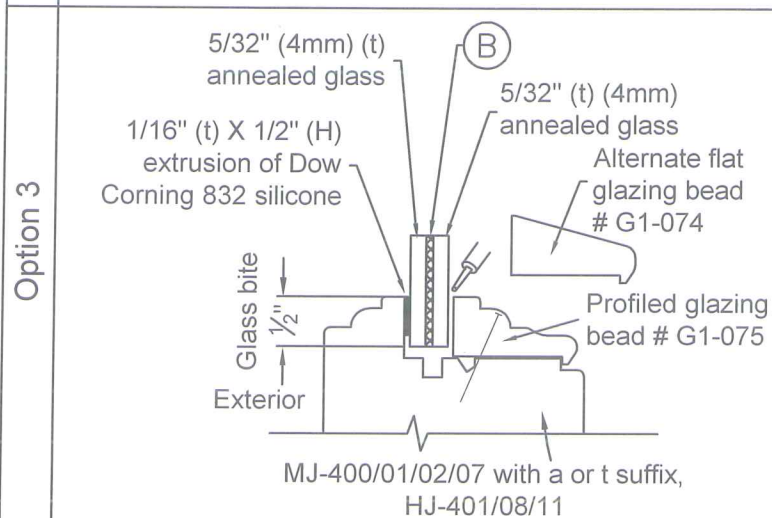
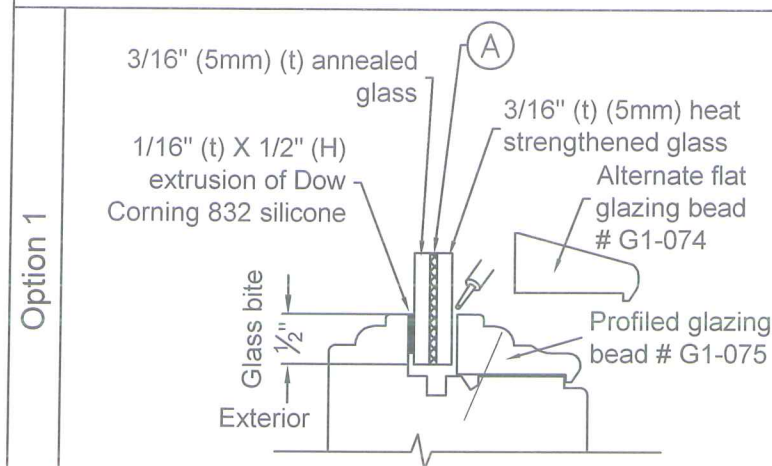
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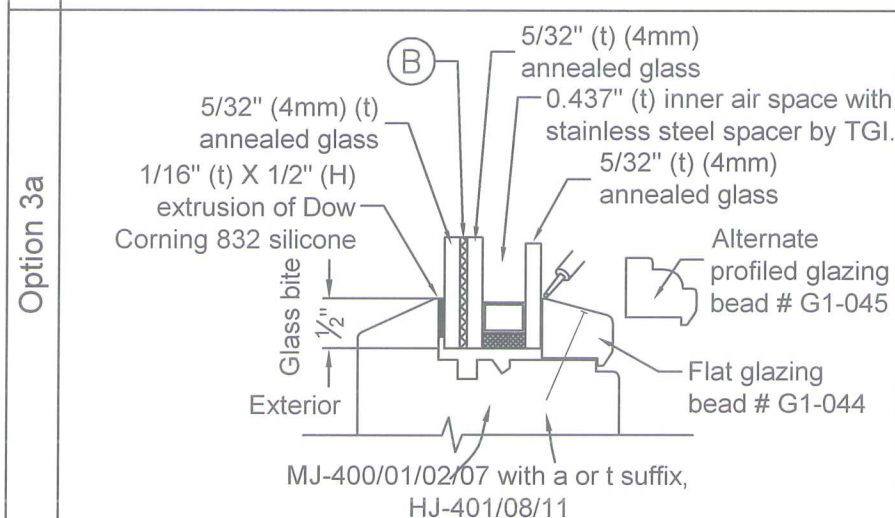
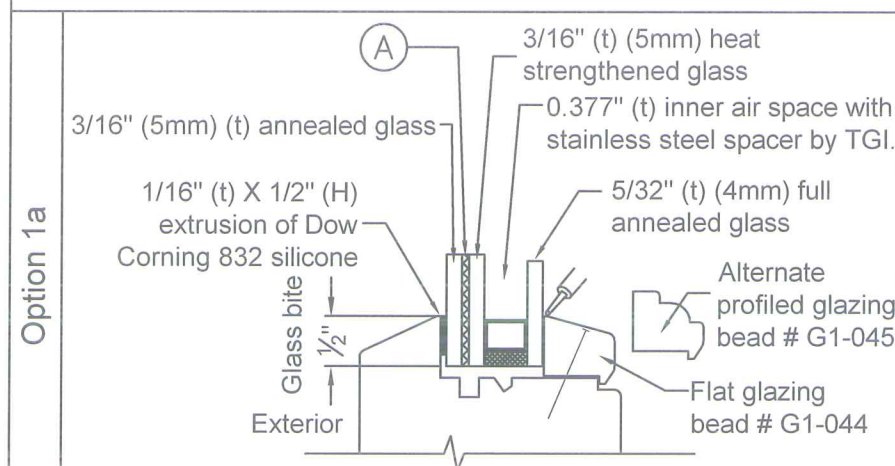
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Typ. glazing w/ monolithic laminated glass



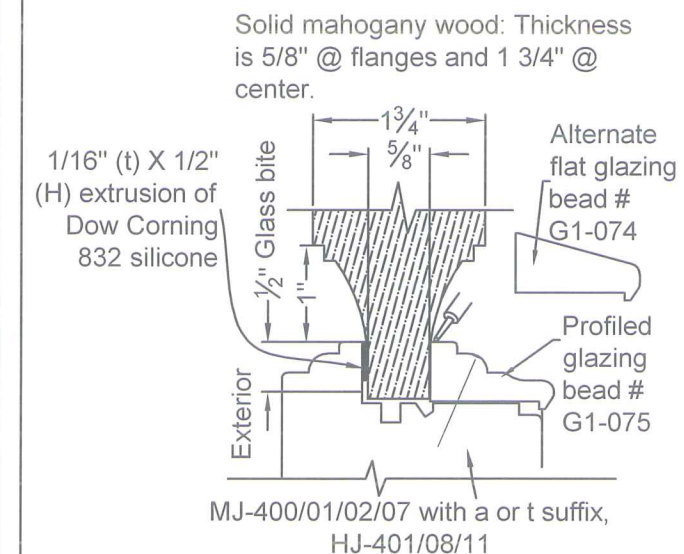
Typ. glazing w/ double insulated glass



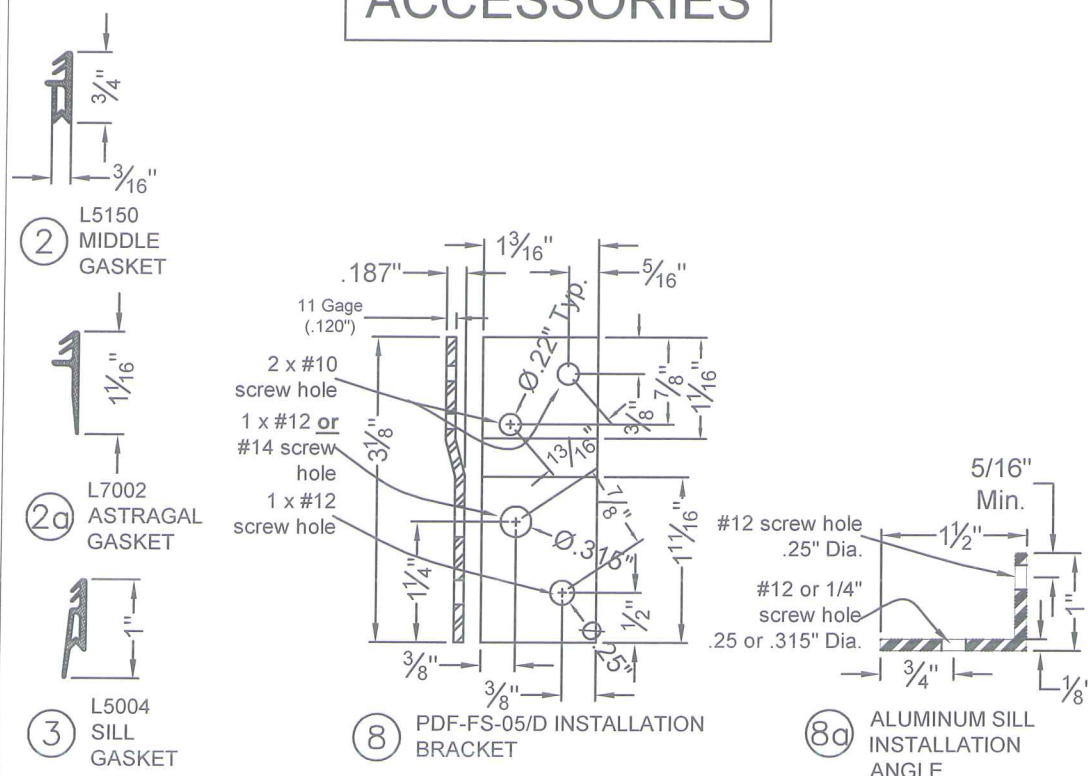
GLAZING DETAILS

Ref.	ITEM DESCRIPTION
(A)	0.090" PVB interlayer (Clear or Color) by Eastman Chemical Company, per NOA# 15-1201.11.
(B)	0.075" Saflex CP interlayer (with PET Core) by Eastman Chemical Company, per NOA# 14-0423.15.

Typ. glazing w/ raised wood panel



ACCESSORIES



BILL OF MATERIALS

(see also related cross sections details)

Ref.	ITEM DESCRIPTION	MANUFACTURER / NOTES
(2)	Brüglman L5150, Push-in EPDM middle gasket	Push-in gasket, in a continuous groove around the sash.
(2a)	Brüglman L7002, Push-in EPDM In-active astragal meeting stile middle gasket	Push-in gasket in a continuous groove. Ends @ sash's head & sill glued to the L5150 gasket
(3)	Brüglman L5004, Push-in EPDM sill gasket	Push-in gasket, in a continuous groove at sash sill.
(5)	Ferco multi-point lock system.	Ferco G-20755 corner gear Ferco 6-26295 steel intermediate arm Ferco 6-26076 steel lever. Ferco 6-25485 steel mechanism Bronze cast alloy keeper, #833856.
(7)	Lock handle	As required to operate lock.
(8)	PDF-FS-05/D Installation bracket Gage 11 ASTM A653 SQ 33 G90 galvanized steel	To door frame: 2x #10 x 1" a.t. wood screws. Min. embedment is 3/4". To door sill frame: 2 x #10 x 3/4" a.t. wood screws. Min embedment is 5/8". To structure as per ANCHOR REQUIREMENTS on sheets 4
(8a)	Installation Aluminum angle (Alloy 6063-T5)	Screwed to wood sill and to structure as per ANCHOR REQUIREMENTS on sheets 4
(9)	Subsill to sill wood pan head assembly screw.	(1) #12 x 2 1/2" @ 51/2" from ends & 12" o/c.

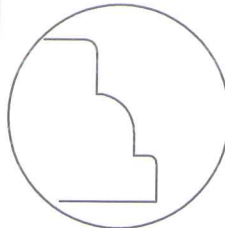
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WOOD PROFILES

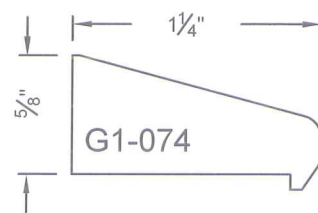
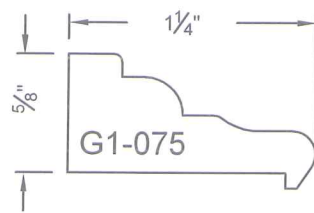
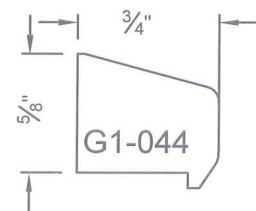
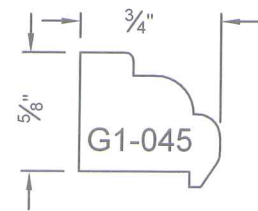
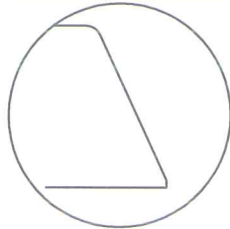
NOTE: All profiles dimensions shown are minimum dimensions.

Alternate glazing fence details

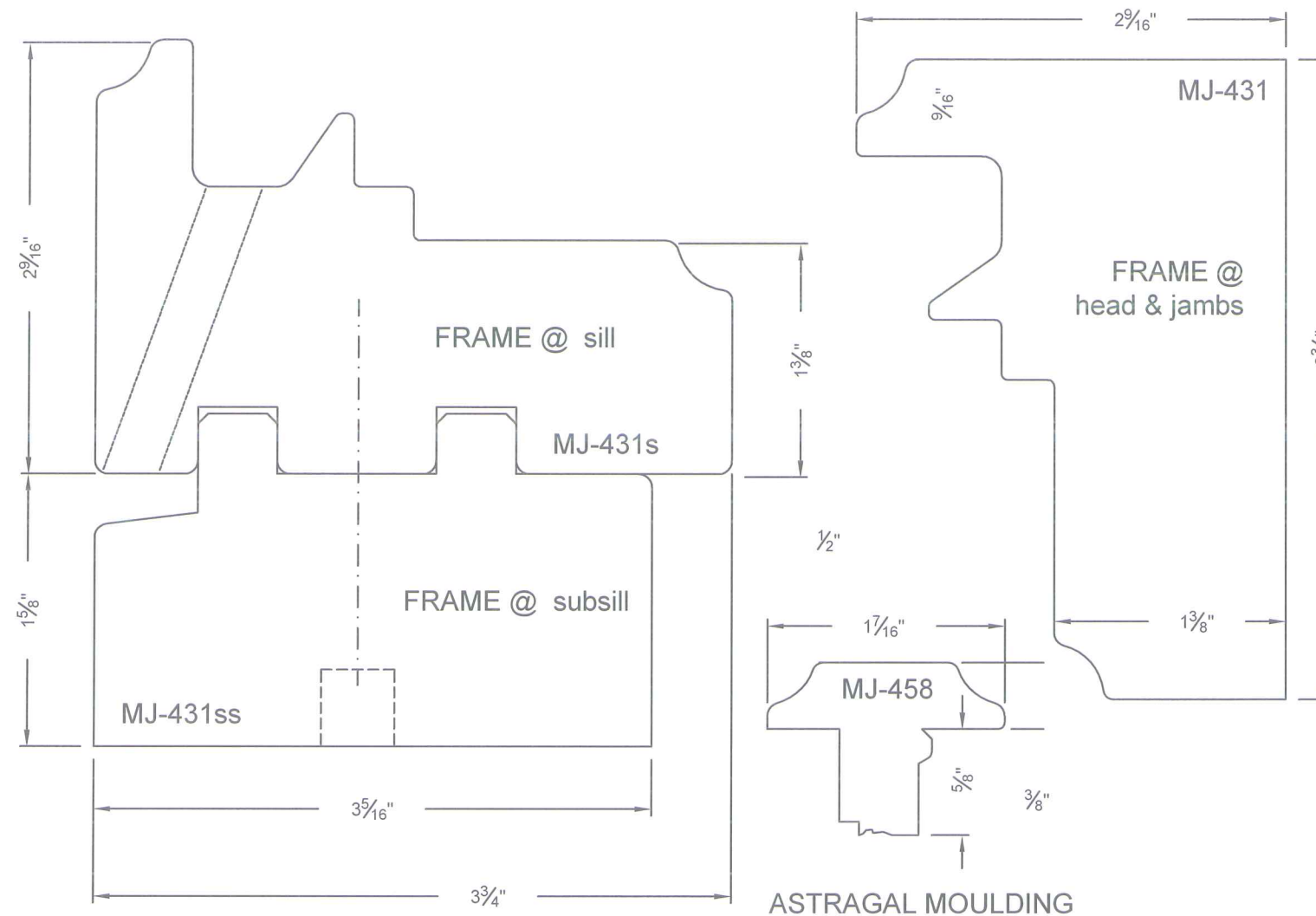
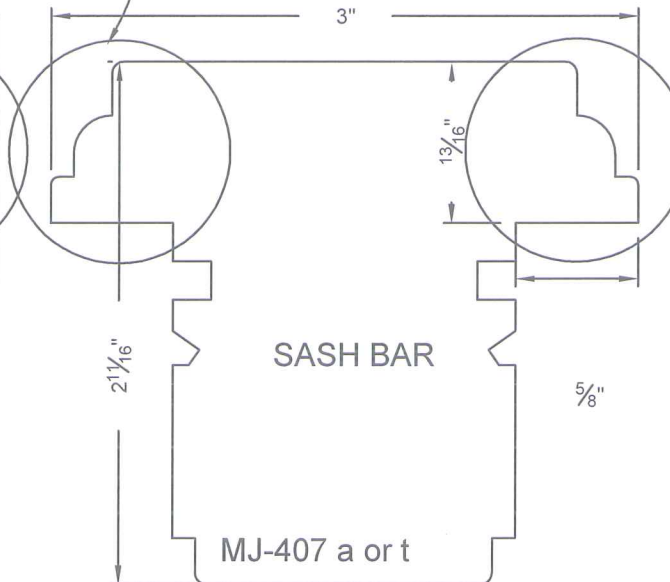
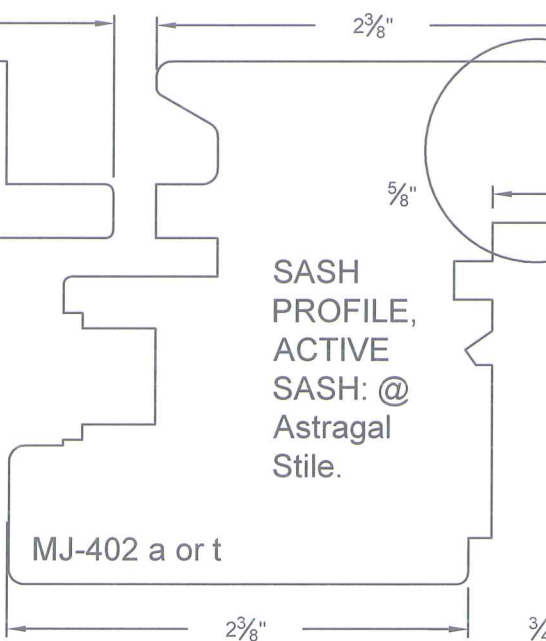
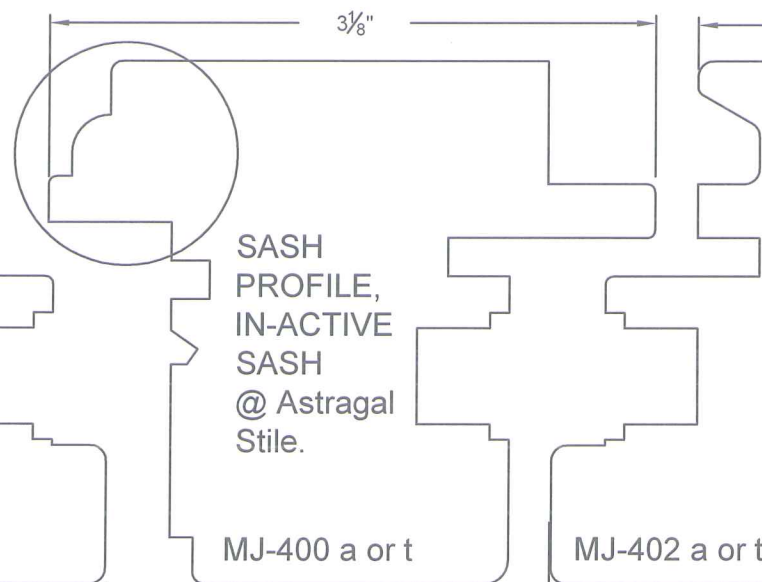
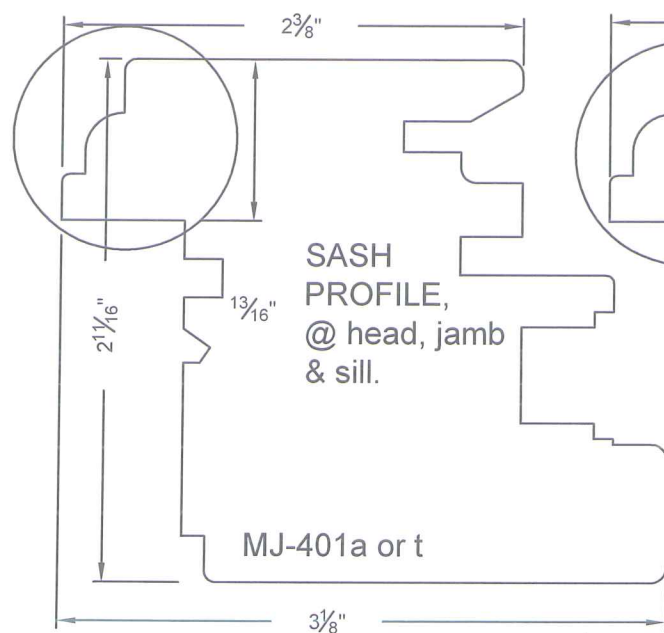
Flat glazing fence:
Part number w/ "a"
suffix.



Moulded glazing
fence: Part number
w/ "t" suffix.



GLAZING BEADS



JS SERIE TILT & TURN INSWING WOOD WINDOWS MIAMI DADE COUNTY

Drawing no.: JS-TT-1

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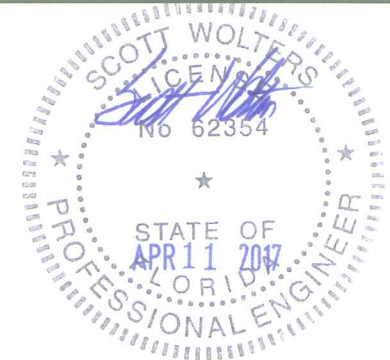
Date drawn: 07/03/15 Date revised: 12/14/16

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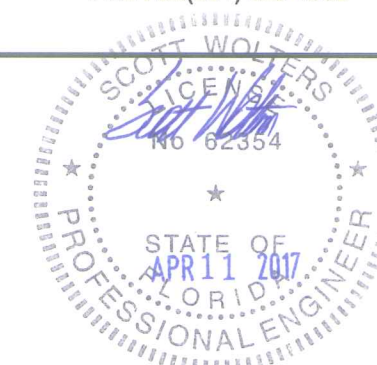
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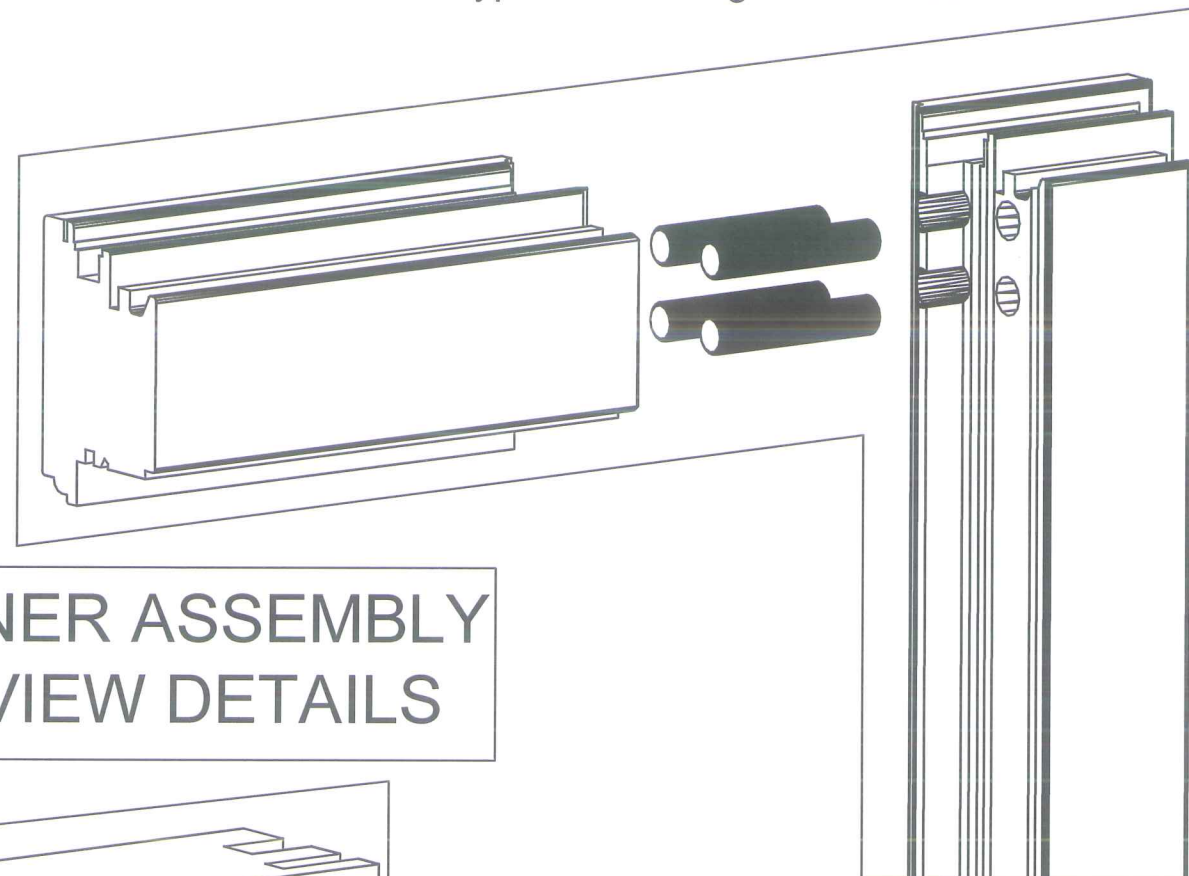
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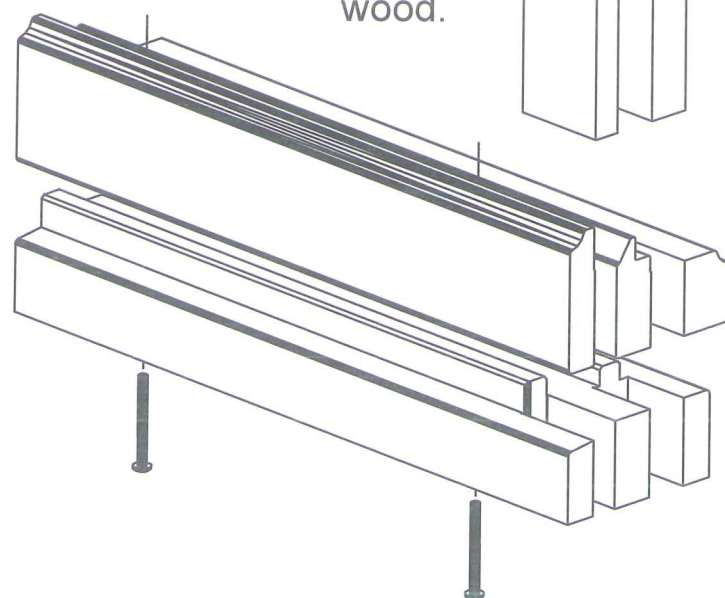


Sash rails to sash stiles: 4x 7/16" x 2 3/4" wood
dowels, w/ 1 3/8" embedment to each profile
Glue: Rhenocoll 3W-4B type 1 exterior glue for wood.

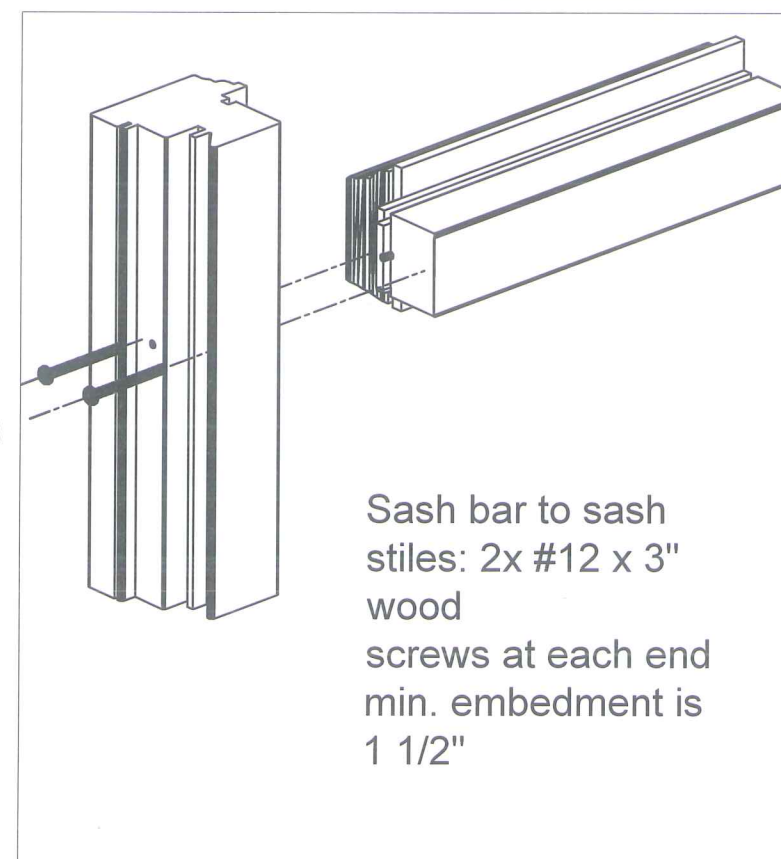
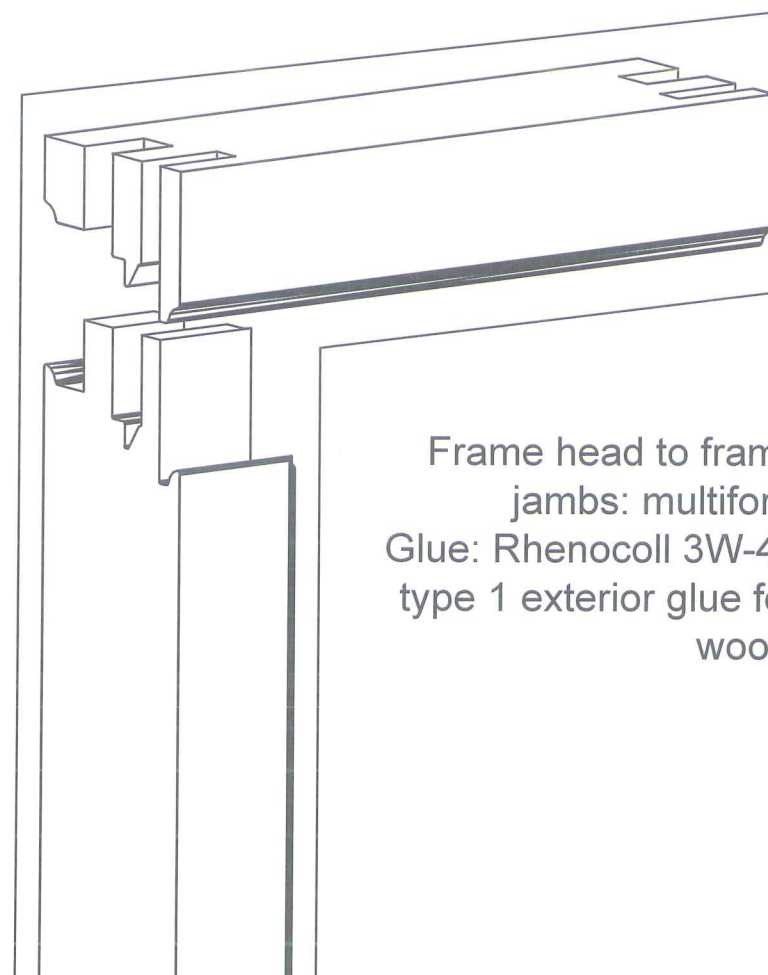


CORNER ASSEMBLY
3D VIEW DETAILS

Frame subsill to frame
sill: (1) #12 x 2 1/2" @
5 1/2" from ends & 12"
o/c. Frame sill & subsill
to frame jambs:
multifork.
Glue: Rhenocoll 3W-4B
type 1 exterior glue for
wood.



Frame head to frame
jambs: multifork.
Glue: Rhenocoll 3W-4B
type 1 exterior glue for
wood.



Sash bar to sash
stiles: 2x #12 x 3"
wood
screws at each end
min. embedment is
1 1/2"