

SIMPSON DOOR COMPANY

GLAZED & OPAQUE I.S. AND O.S. EXTERIOR WOOD DOORS WITH SIDELIGHTS

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE - BUILDING AND RESIDENTIAL VOLUMES EXCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AT THE DESIGN PRESSURES STATED HEREIN.
2. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT(S) NO. CCLI-10-162 AND ASSOCIATED LABORATORY DRAWINGS.
3. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE / MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE STRUCTURE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
5. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, SITE SPECIFIC DOCUMENTS SHALL BE PREPARED FOR USE WITH THIS DOCUMENT.
6. THIS PRODUCT IS REQUIRED TO USE AN IMPACT PROTECTIVE SYSTEM THAT COMPLIES WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE - BUILDING AND RESIDENTIAL VOLUMES IN THE WIND BORNE DEBRIS REGION.
7. MATERIALS AND COMPONENTS:
- 7.1. DOOR FRAME:
- 7.1.1. HEAD AND JAMBS: PINE
- 7.1.2. SILL: OAK OR MAHOGANY
- 7.2. PANEL CORE MATERIAL: WESTERN HEMLOCK OR DOUGLAS FIR
- 7.3. PANEL FACE VENEER: VARIABLE
- 7.4. HINGES: 4 X 4 BUTT
- 7.5. LATCH & DEADBOLT: KWIKSET SERIES 740 LOCKSET W/KWIKSET SERIES 980 DEADBOLT.
- 7.6. LATCH & DEADBOLT: SCHLAGE F SERIES HANDLE SET W/SCHLAGE B60 DEADBOLT.
- 7.7. MULT-POINT LOCKING HARDWARE: W & F TRILEMIUM 3000 SERIES.
- 7.8. MULT-POINT LOCKING HARDWARE: HOPPE N.A. 3-POINT
- 7.9. MULL POST: ENDURA FAT BOY WOOD MULL.
- 7.10. THRESHOLD: ENDURA PRODUCTS ALUMINUM INSWING ADJUSTABLE #ZAI5625.
- 7.11. THRESHOLD: YOUNG MFG. ALUMINUM INSWING.
- 7.12. THRESHOLD: YOUNG MFG. OAK INSWING.
- 7.13. THRESHOLD: ENDURA PRODUCTS OUTSWING #ZFOB5625
- 7.14. THRESHOLD: ALUMINUM INSWING ADA SILL

8. APPROVED CORNER CONSTRUCTION
- 8.1. WOOD DOWEL SERIES
- 8.2. MORTISE AND TENON SERIES

9. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-04e1 GLASS CHARTS. SEE SHEET 6 FOR GLAZING DETAILS. QUALIFIED GLAZING INCLUDES:
- 9.1. 1/8" TEMPERED GLASS
- 9.2. 3/4" O.V. INSULATING GLASS CONSISTING OF 1/8" TEMPERED GLASS x 1/2" AIR SPACE x 1/8" TEMPERED GLASS

10. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING (AS APPLICABLE):
- 10.1. X: OPERABLE PANEL
- 10.2. O: FIXED PANEL

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9	TYPICAL APPROVED PANEL CONFIGURATIONS

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION. IN ADDITION TO THE INSTALLATION ANCHORS SHOWN, TWO (2) INSTALLATION ANCHORS ARE REQUIRED IN EACH HINGE. LOCATE HINGE ANCHORS IN THE TOP HOLE OF EACH HINGE LEAF INTO THE HINGE JAMB. ANCHORS ARE TO MATCH TYPE AND EMBEDMENT OF THOSE SHOWN HEREIN FOR RESPECTIVE SUBSTRATE.
3. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM SIZE IS 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
4. FOR INSTALLATION INTO WOOD FRAMING, USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT.
5. FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE / MASONRY, OR DIRECTLY INTO CONCRETE / MASONRY, USE 3/16 INCH ITW ADVANCED THREADFORM TECHNOLOGY TAPCONS OR EQUAL OF SUFFICIENT LENGTH TO ACHIEVE 1 INCH MINIMUM EMBEDMENT FOR CMU BLOCK AND 1 1/2 INCH MINIMUM EMBEDMENT FOR CONCRETE.
6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES (INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING).
7. FOR CONCRETE BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
8. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
- A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42.
- B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
- C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90.

DESIGN PRESSURE RATING (PSF)				
MAX. SIZE OF DOORS (I.S. OR O.S.)	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED		WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED	
6'4-5/8" X 7'2-1/2"	STANDARD LOCKS	3-POINT HARDWARE	STANDARD LOCKS	3-POINT HARDWARE
OXO, OX, XO	-----	-----	±50.0 PSF	±50.0 PSF

DESIGN PRESSURE RATING (PSF)				
MAX. SIZE OF DOORS (I.S. OR O.S.)	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED		WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED	
3'-2" X 7'2-1/2"	STANDARD LOCKS	3-POINT HARDWARE	STANDARD LOCKS	3-POINT HARDWARE
X	-----	-----	±50.0 PSF	±50.0 PSF

PROJECT: #415-0307			JBH	TJH	BY
		04/14/15			DATE
	UPDATE TO 5TH EDITION (2014) FBC				
B					
A	UPDATE TO 2010 FBC				
REV	DESCRIPTION				

SIMPSON DOOR COMPANY

400 W. SIMPSON AVENUE

McCLEARY, WASHINGTON 98557

TITLE:

GLAZED. & OPAQUE WOOD DOORS WITH SIDELIGHTS

GENERAL AND INSTALLATION NOTES

PREPARED BY:

DATE:

DRAWING NO:

SHEET:

DRAWN BY:

SCALE:

REV:

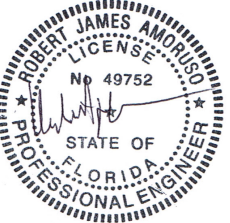
1 OF 9



PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FLORIDA 32752
Phone: 321.680.1788
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Email: info@ptc-corp.com

Robert J. Amoruso

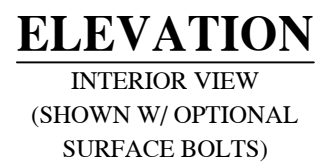
Florida P.E. No. 49752



Digitally signed by Robert J. Amoruso

DN: cn=Robert J. Amoruso, o, ou=PTC Product Design Group, email=robert@ptc-corp.com, c=US

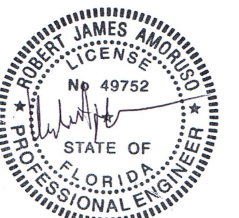
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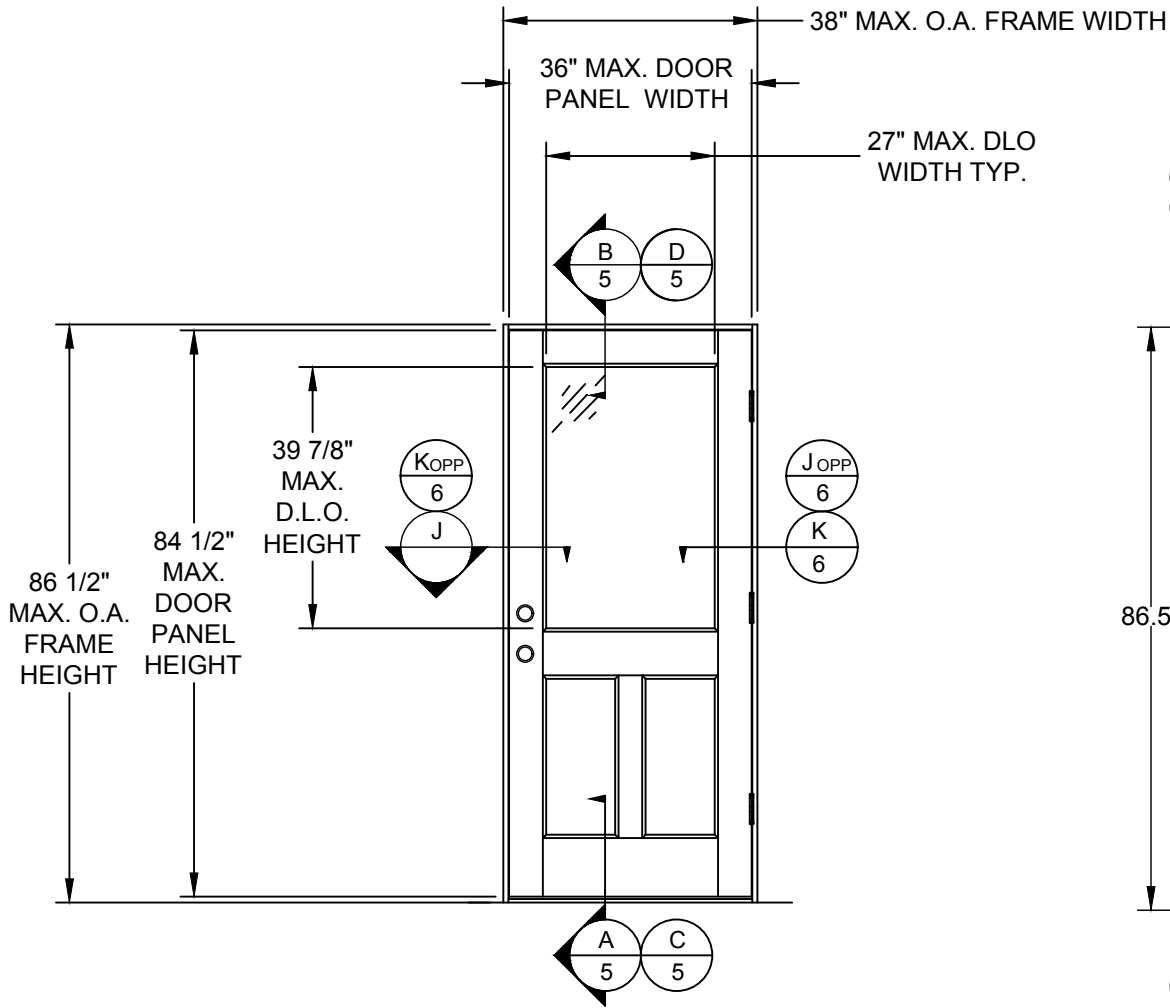
INTERIOR VIEW
(SEE INSTALLATION NOTE 2)

SIMPSON DOOR COMPANY 400 W. SIMPSON AVENUE MCCLEARY, WASHINGTON 98557		PREPARED BY:  PDC PRODUCT DESIGN GROUP, LLC PO BOX 520775 LONGWOOD, FLORIDA 32752	
TITLE: GLAZED. & OPAQUE WOOD DOORS WITH SIDELIGHTS ELEVATION & ANCHOR LAYOUT		DATE: 01/12/11 DRAWING NO: SIMP1062 REV: B	
		SHEET: 2 OF 9	

Robert J. Amoruso
Florida P.E. No. 49752

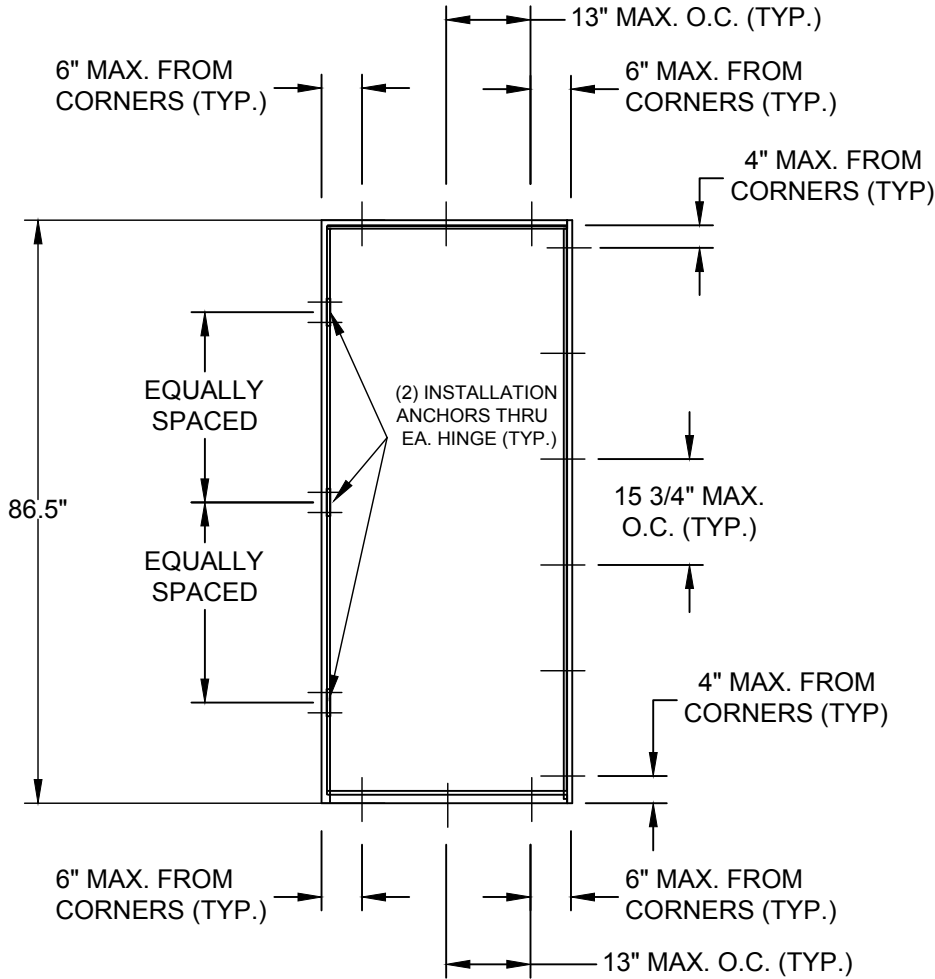


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Group, email=robert@ptc-
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-04'00'



ELEVATION

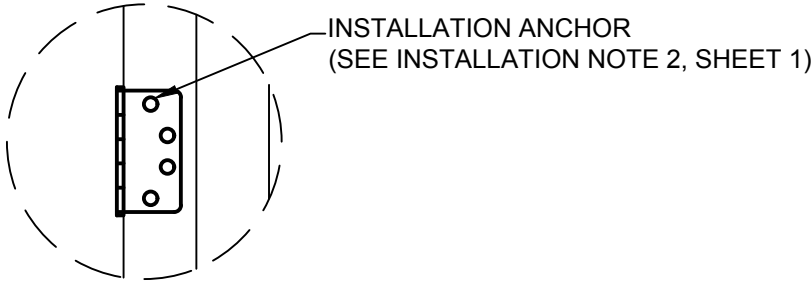
INTERIOR VIEW
(SHOWN W/ OPTIONAL
STANDARD HARDWARE)



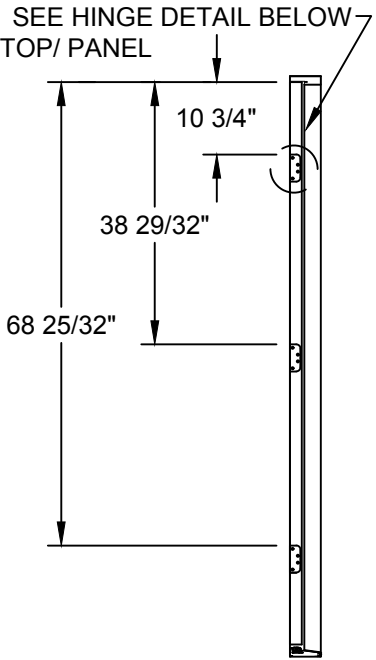
ANCHOR LAYOUT

50.0 PSF

INTERIOR VIEW
(SEE INSTALLATION NOTE 2)



HINGE DETAIL



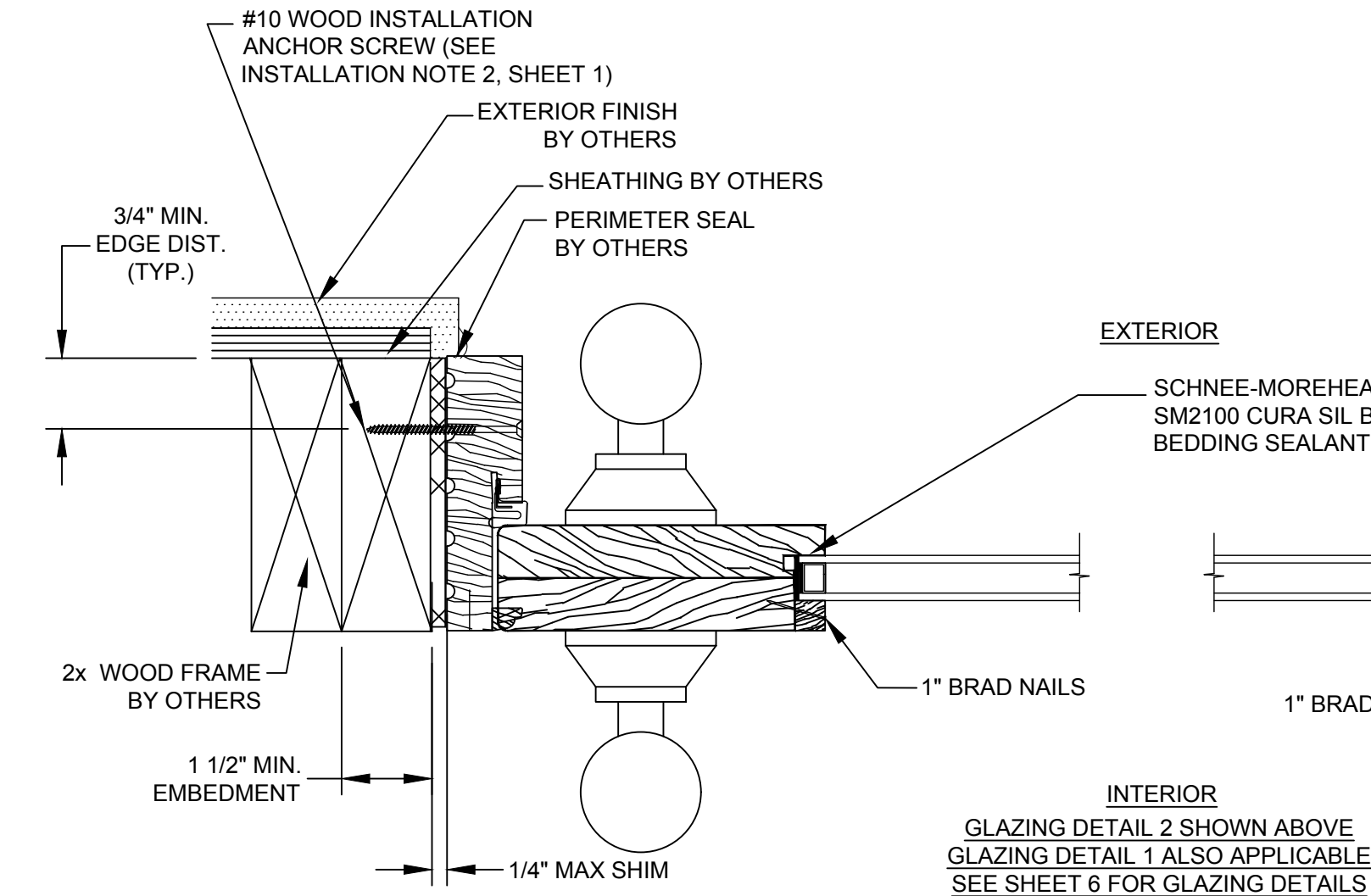
**HINGE JAMB
ELEVATION**

PROJECT: #415-0307

SIMPSON DOOR COMPANY 400 W. SIMPSON AVENUE McCLEARY, WASHINGTON 98557		DATE: 01/12/11	
TITLE: GLAZED. & OPAQUE WOOD DOORS WITH SIDELIGHTS ELEVATION & ANCHOR LAYOUT		DRAWN BY: JM	
PREPARED BY:		SCALE: N.T.S.	
PTC PRODUCT DESIGN GROUP, LLC PO BOX 520715 LONGWOOD, FLORIDA 32752		DRAWING NO: SIMP1062	
		SHEET: 3 OF 9	
		REV: B	
		DESCRIPTION	
		REV	
		DATE	
		BY	
		JBH	
		04/14/15	
		UPDATE TO 5TH EDITION (2014) FBC	
		B	
		UPDATE TO 2010 FBC	
		A	
		05/11/12	
		TJH	

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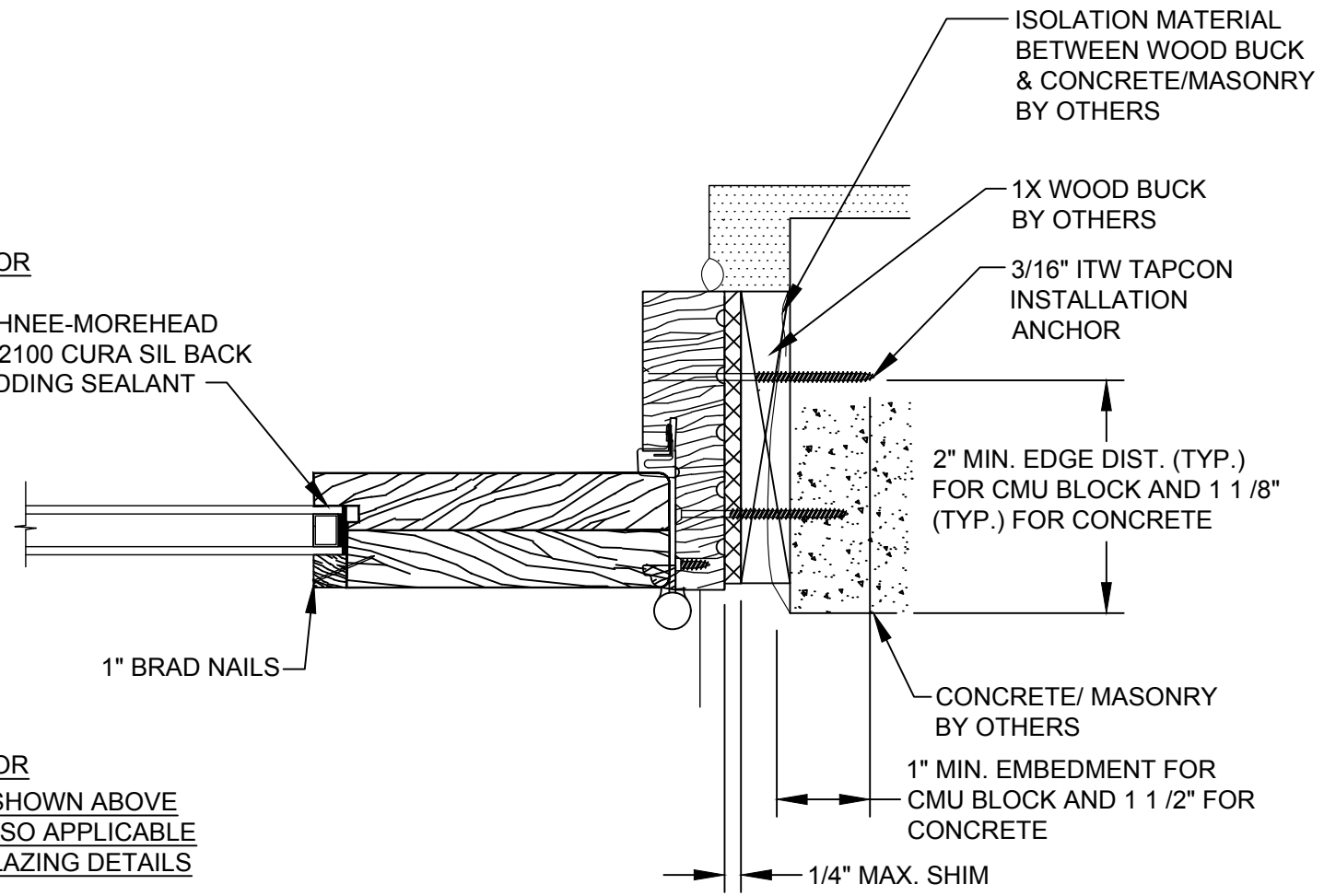


J **HORIZONTAL SECTION**
WOOD SUBSTRATE
SINGLE DOOR

EXTERIOR

INTERIOR

GLAZING DETAIL 2 SHOWN ABOVE
GLAZING DETAIL 1 ALSO APPLICABLE
SEE SHEET 6 FOR GLAZING DETAILS



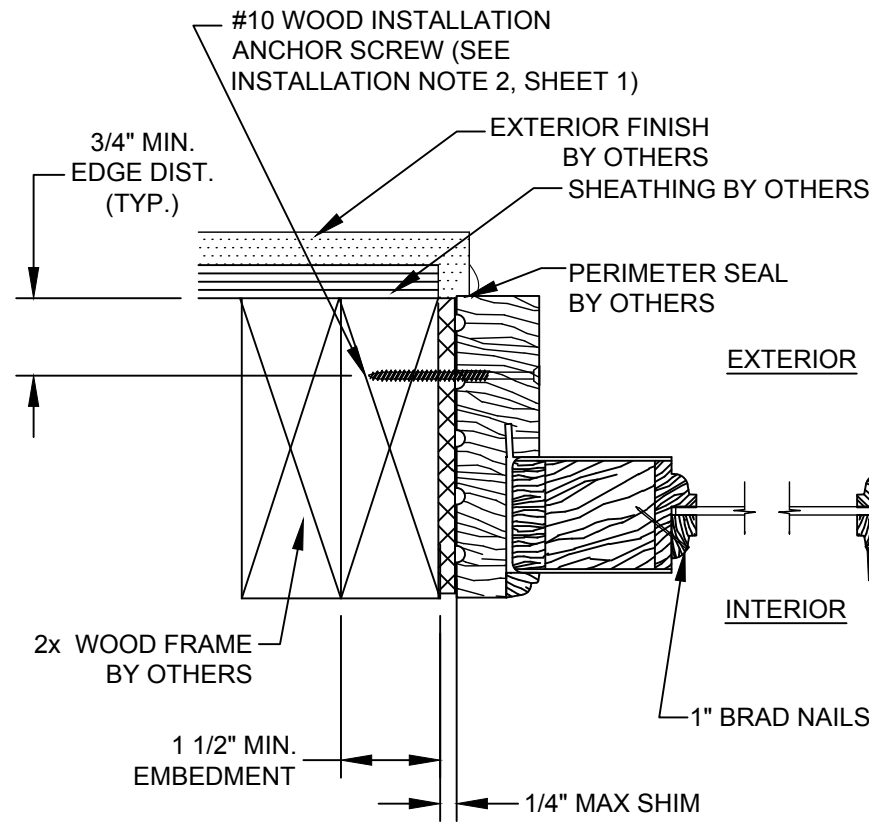
K **HORIZONTAL SECTION**
CONCRETE / MASONRY SUBSTRATE
SINGLE DOOR

PROJECT: #415-0307				
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		UPDATE TO 2010 FBC	05/11/12	TJH
		REV	DATE	BY

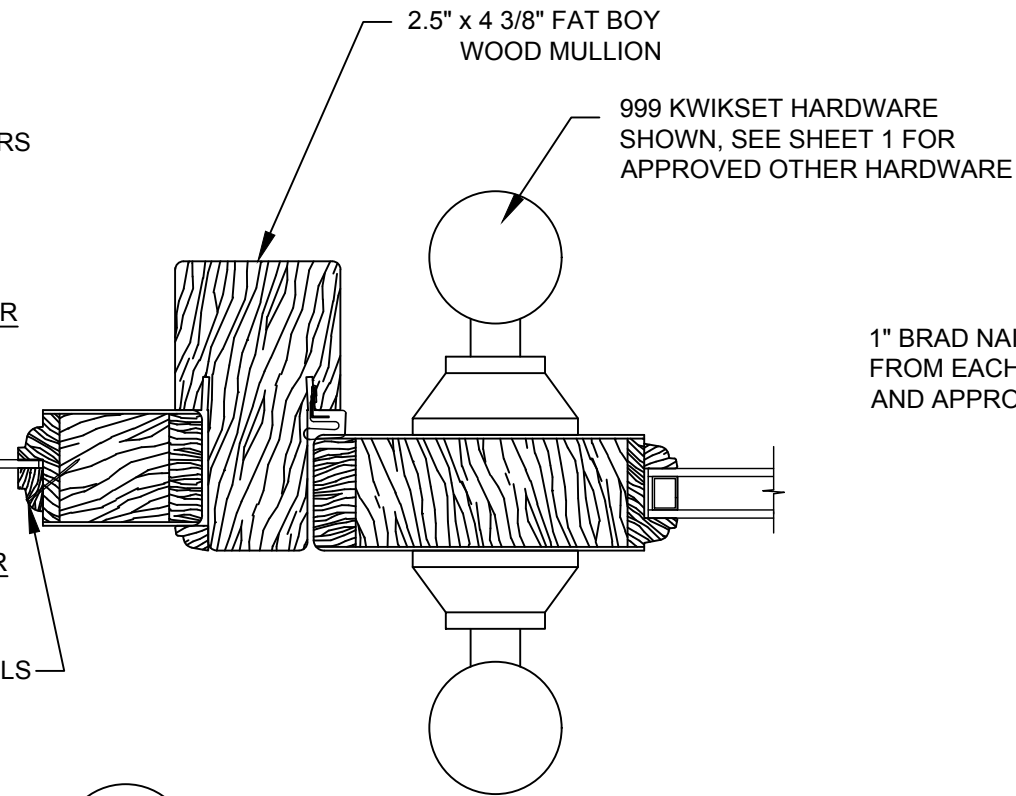
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DRAWN BY: JM		SCALE: N.T.S.	
PREPARED BY:		REV: B	
PTC PRODUCT DESIGN GROUP, LLC PO BOX 520715 LONGWOOD, FLORIDA 32752		SHEET: 5 OF 9	

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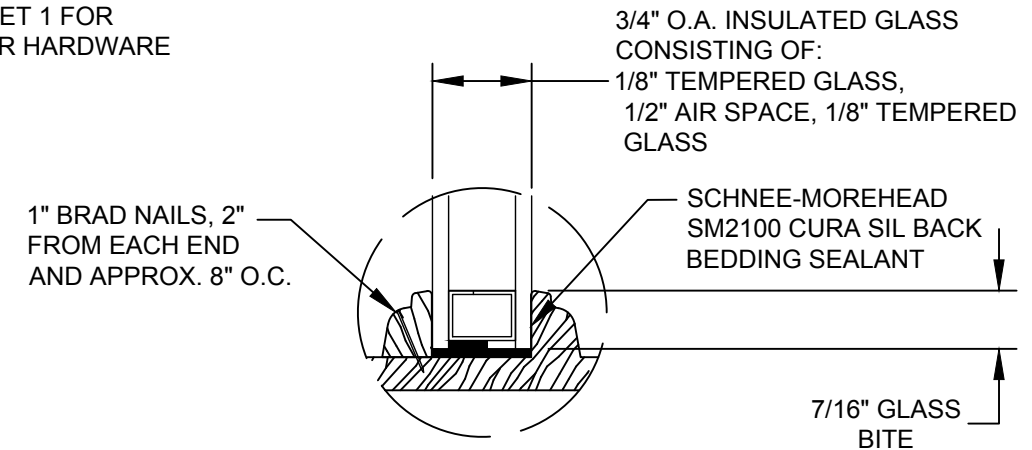
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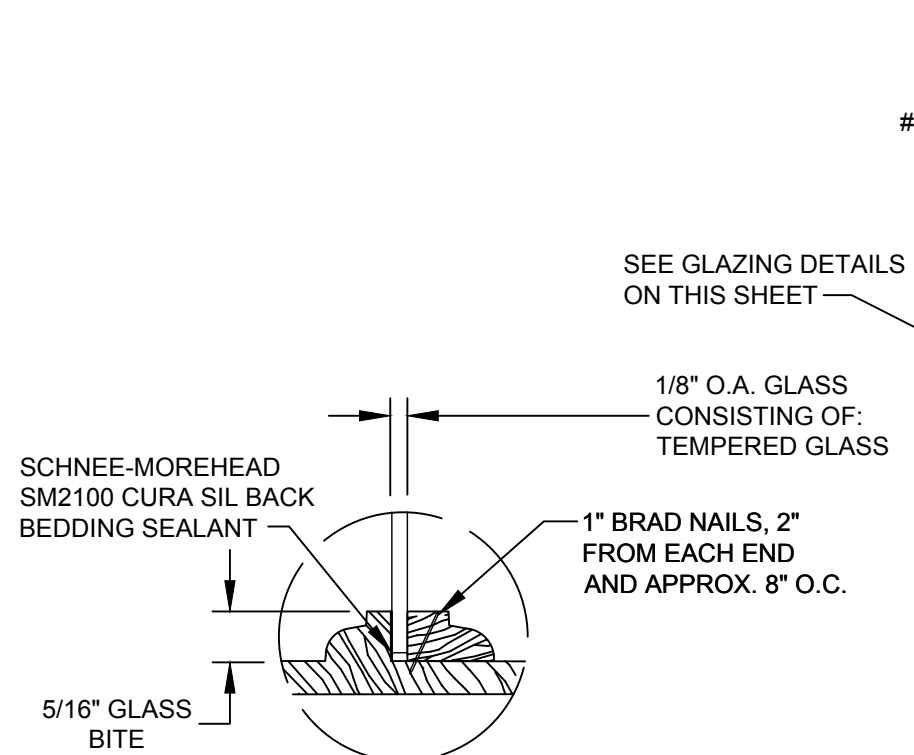
F **HORIZONTAL SECTION**
WOOD SUBSTRATE
IN-SWING SHOWN



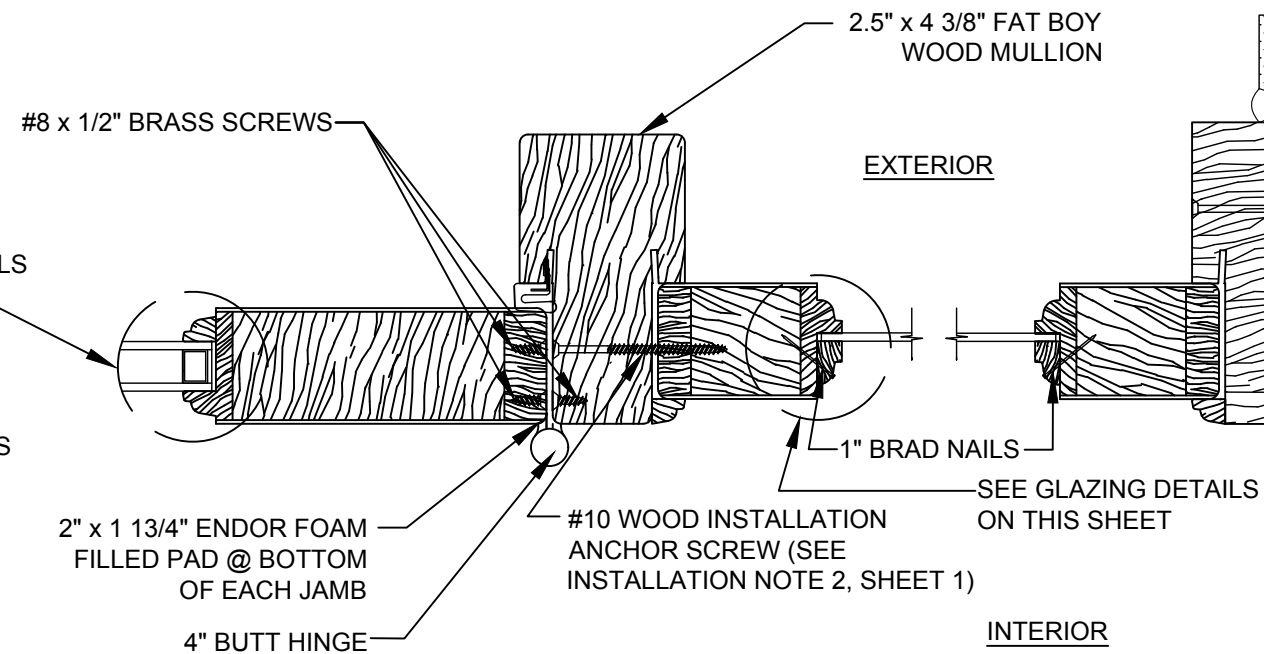
G **HORIZONTAL SECTION**
FAT BOY MULLION ASSEMBLY



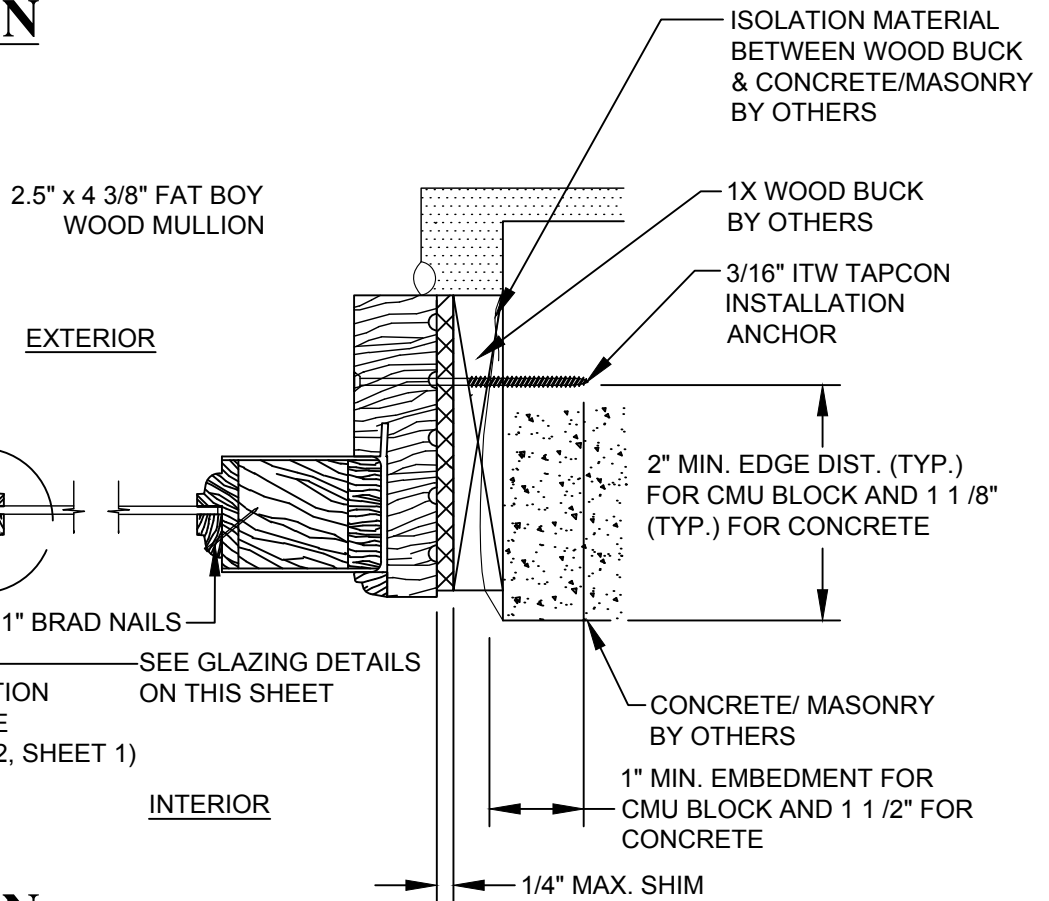
GLAZING DETAIL 2



GLAZING DETAIL 1



H **HORIZONTAL SECTION**
MULLION AND HINGE

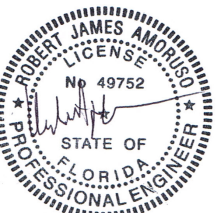


I **HORIZONTAL SECTION**
CONCRETE / MASONRY SUBSTRATE
IN-SWING SHOWN

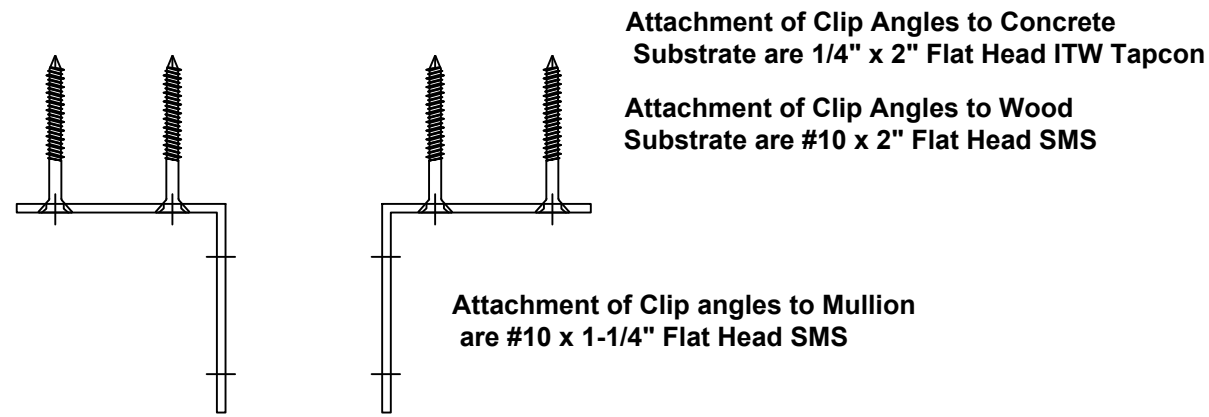
PROJECT: #415-0307

SIMPSON DOOR COMPANY 400 W. SIMPSON AVENUE McCLEARY, WASHINGTON 98557	TITLE: GLAZED: & OPAQUE WOOD DOORS WITH SIDELIGHTS HORIZONTAL SECTIONS & GLAZING DETAILS		DATE: 01/12/11		DRAWING NO: SIMP1062		SHEET: 6 OF 9	
	DRAWN BY: JM		SCALE: N.T.S.		REV: B			
	PREPARED BY: PTC PRODUCT DESIGN GROUP, LLC PO BOX 520775 LONGWOOD, FLORIDA 32752		Phone: 321.690.1788 Fax: 321.690.1789 Email: info@ptc-corp.com					

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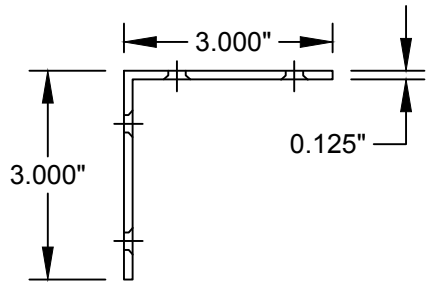


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Date: 2015.04.23 13:22:38 -04'00'



Note: Notch the top and bottom of the mullion to receive the mullion clips. This will allow the frame members to sit flush against the mullion

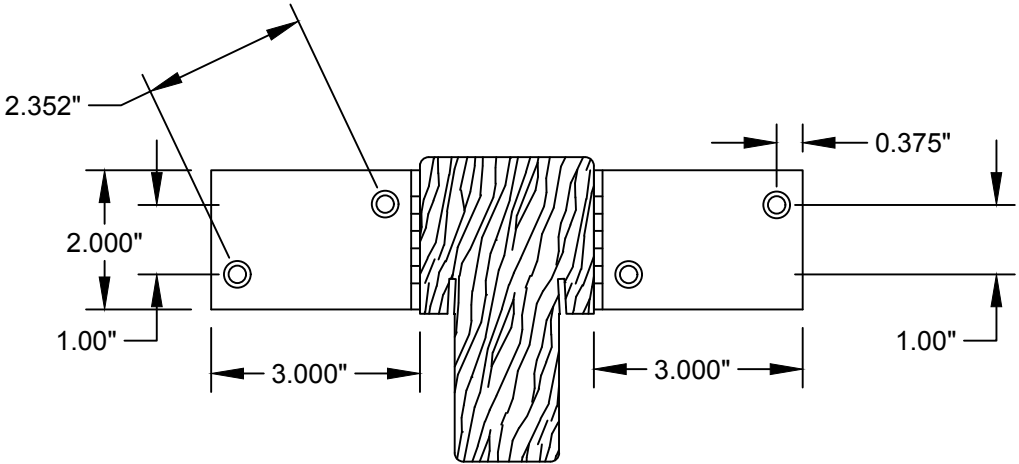
MULLION ANCHOR DETAIL



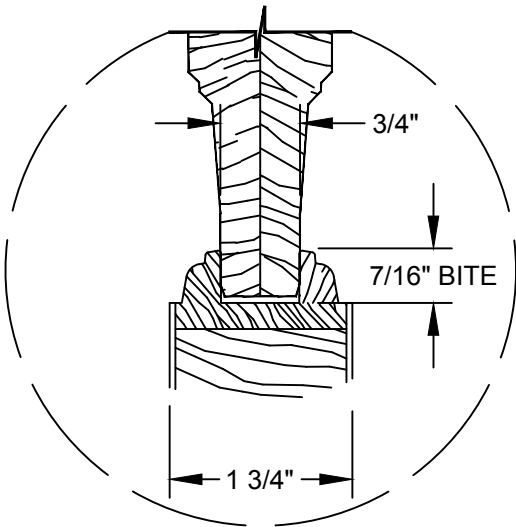
13 ANGLE BRACKET

INSTALLATION NOTES:

- FOR CLIP ATTACHMENT TO WOOD SUBSTRATES USE FOUR (4) #10 X 2" LONG OR LONGER WOOD SCREWS PER CLIP LEG INTO THE INSTALLATION BUCKING OR FRAME WITH A MINIMUM OF 1 1/2" EMBEDMENT INTO SUBSTRATE AND MAINTAINING AT LEAST 3/4" MINIMUM EDGE DISTANCE IS REQUIRED BASED ON THE ANALYSIS USED TO GENERATE THIS DETAIL.
- FOR CLIP ATTACHMENT TO CMU BLOCK OR CONCRETE SUBSTRATES USE A TOTAL OF (4) FOUR 3/16" DIAMETER MASONRY ANCHOR TWO (2) PER EACH CLIP LEG INTO THE INSTALLATION BUCKING OR FRAME WITH A MINIMUM OF 1" EMBEDMENT INTO SUBSTRATE FOR CMU BLOCK AND 1 1/2" EMBEDMENT FOR CONCRTE, MAINTAINING AT LEAST 2" MINIMUM EDGE DISTANCE FOR CMU AND 1 1/8" FOR CONCRETE. EACH CLIP ANCHOR HOLE SPACING MUST BE LOCATED AT LEAST 2 1/4" SPACING BETWEEN ANCHORS.
- FOR CLIP ATTACHMENT TO MULLION END, USE FOUR (4) #10 X 1 1/4" WOOD SCREWS TWO (2) PER EACH CLIP LEG.



MULLION POST



WOOD PANEL DETAIL

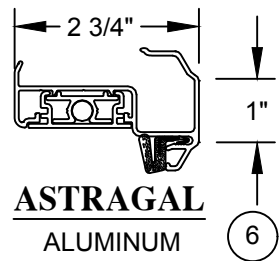
RAISED WOOD PANEL
(DOOR LEAF ONLY)

PROJECT: #415-0307					
		UPDATE TO 5TH EDITION (2014) FBC	04/14/15	JBH	
		UPDATE TO 2010 FBC	05/11/12	TJH	
		REV	DESCRIPTION	DATE	BY

SIMPSON DOOR COMPANY 400 W. SIMPSON AVENUE McCLEARY, WASHINGTON 98557		TITLE: GLAZED. & OPAQUE WOOD DOORS WITH SIDELIGHTS MULLION END ANCHOR DETAILS		DATE: 01/12/11	
DRAWN BY: JM		SCALE: N.T.S.		DRAWING NO: SIMP1062	
REV: B		SHEET: 7 OF 9		PTC PRODUCT DESIGN GROUP, LLC PO BOX 520715 LONGWOOD, FLORIDA 32752	

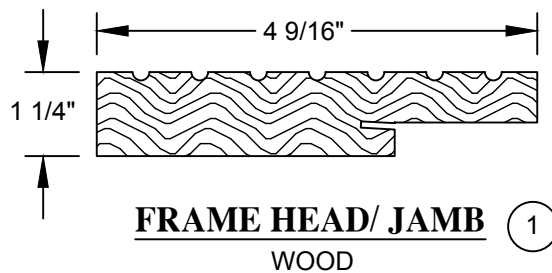
Robert J. Amoruso
Florida P.E. No. 49752

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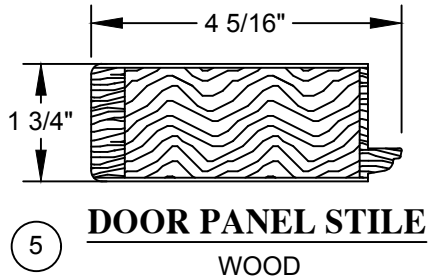
ASTRAGAL
ALUMINUM

6



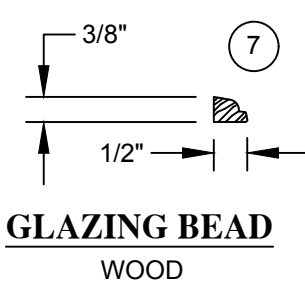
FRAME HEAD/ JAMB
WOOD

1



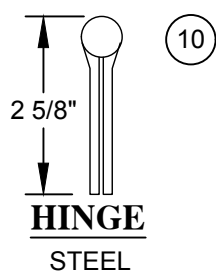
DOOR PANEL STILE
WOOD

5



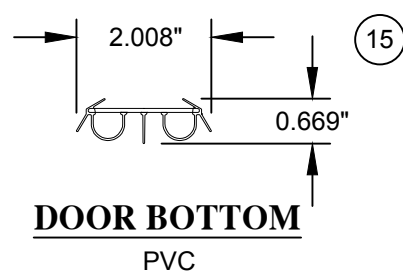
GLAZING BEAD
WOOD

7



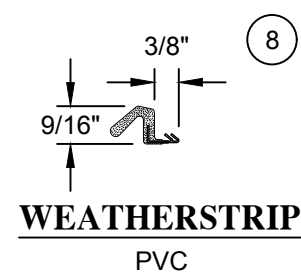
HINGE
STEEL

10



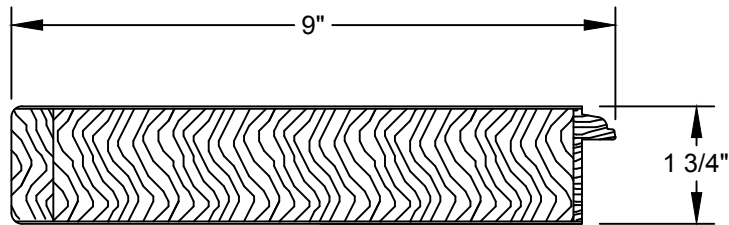
DOOR BOTTOM
PVC

15



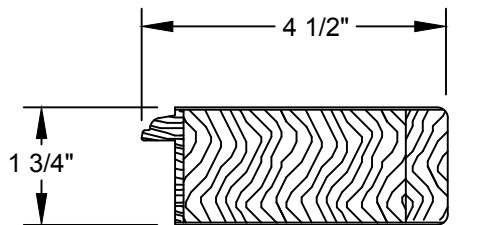
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PVC

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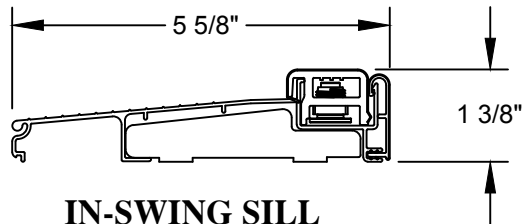
DOOR PANEL SILL
WOOD

4



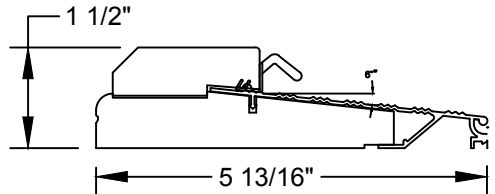
DOOR PANEL HEAD
WOOD

3



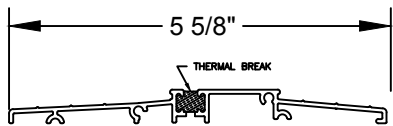
IN-SWING SILL
ALUMINUM 0.053" TYP.
WALL THICKNESS

2



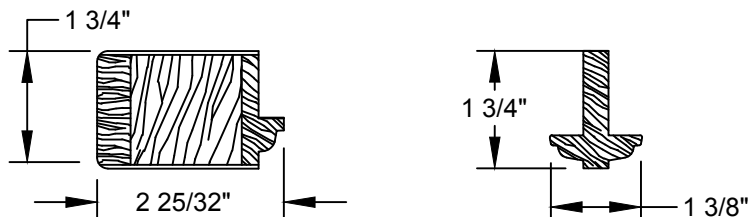
OUT-SWING SILL

18



IN-SWING SILL -ADA

19

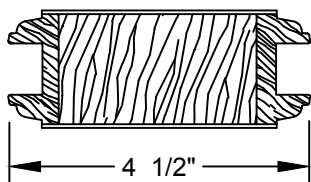


Fixed Stile
Wood

29

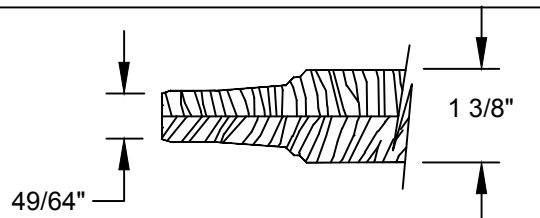
IG TDL Bar
Wood

11



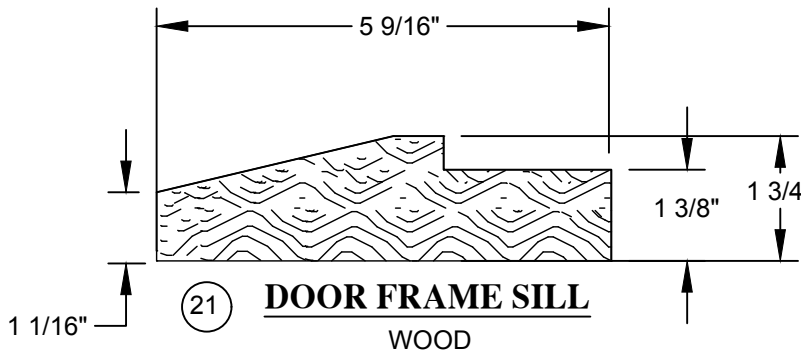
Door Mutt
Wood

10



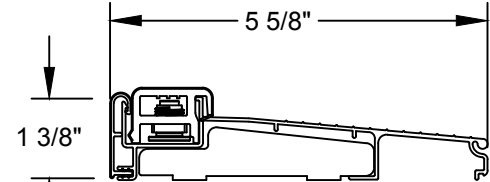
DOOR PANEL
Wood

12



DOOR FRAME SILL
WOOD

21



Young Mfg Sill - Inswing
Aluminum

20

ITEM	DESCRIPTION	PART #	MATERIAL	MANUFACTURER
1	FRAME HEAD & JAMB		PINE	SIMPSON DOOR
2	FRAME SILL	ZA15625	6063-T6 ALUMINUM	ENDURA
3	DOOR PANEL HEAD		WESTERN HEMLOCK *	SIMPSON DOOR
4	DOOR PANEL SILL		WESTERN HEMLOCK *	SIMPSON DOOR
5	DOOR PANEL STILE		WESTERN HEMLOCK *	SIMPSON DOOR
6	ASTRAGAL		ALUMINUM	ENDURA ULTIMATE
7	GLAZING BEAD		WESTERN HEMLOCK *	SIMPSON DOOR
8	WEATHERSTRIPPING	QEBD 650	PVC	SCHLEGAL
9	NOT USED			
10	4" BUTT HINGES		STEEL	
11	STANDARD LOCKSET		STEEL	KWIKSET/SCHLAGE
12	LOCK SET MULTIPOINT		STEEL	W& F
13	3" X 3" X 2" ANGLE	-----	ALUMINUM	PURCHASE
14	1/8" TEMPERED GLASS		GLASS	PURCHASE
15	BOTTOM RAIL SWEEP		PVC	ENDURA
16	#10 x 2 1/4" WOOD SCREW		STEEL	
17	3/4" O.A. INSULATED GLASS CONSISTING OF: 1/8" TEMPERED GLASS, 1/2" AIR SPACE, 1/8" TEMPERED GLASS		GLASS	PURCHASE
18	FRAME SILL O.S. BUMPER		WOOD	SIMPSON
19	FRAME SILL I.S. ADA		WOOD	ENDURA
20	FRAME SILL I.S.		ALUMINUM	YOUNG MANF.
21	FRAME SILL WOOD		OAK OR MAHOGANY	SIMPSON

* DOUGLAS FIR MAY BE USED IN LIEU OF
WESTERN HEMLOCK.

PROJECT: #415-0307

		JBH	TJH	BY
	UPDATE TO 5TH EDITION (2014) FBC	04/14/15	05/11/12	DATE
B	A	REV	REV	DESCRIPTION

SIMPSON DOOR COMPANY

400 W. SIMPSON AVENUE
McCLEARY, WASHINGTON 98557

TITLE: GLAZED. & OPAQUE WOOD DOORS WITH SIDELIGHTS
BILL OF MATERIALS AND GLAZING DETAILS

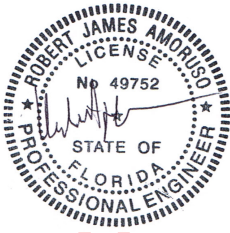
PREPARED BY: J.M. DATE: 01/12/11

SCALE: N.T.S. DRAWING NO: SIMP1062

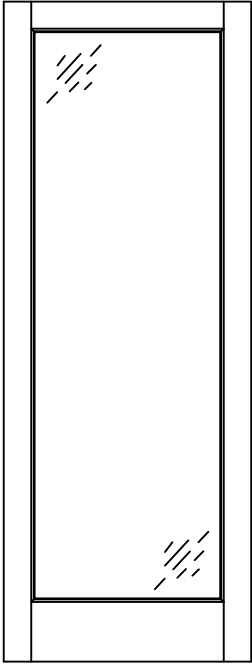
REV: B SHEET: 8 OF 9

PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520715
LONGWOOD, FLORIDA 32752
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com

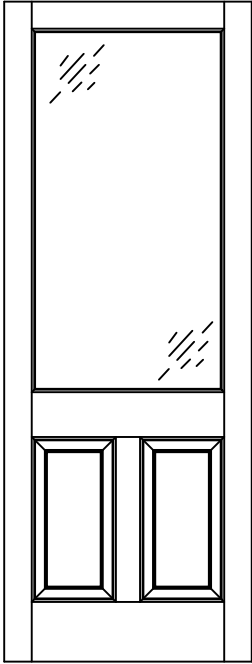
Robert J. Amoruso
Florida P.E. No. 49752



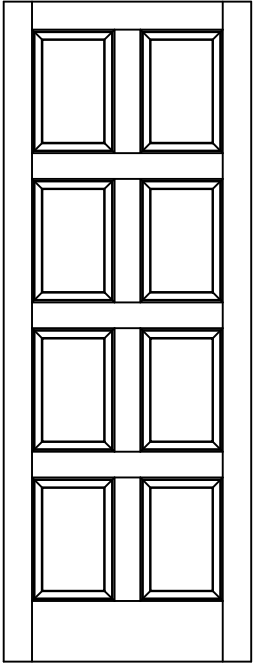
Digitally signed by Robert J. Amoruso
DN: cn=Robert J. Amoruso, o=PTC Product Design Group, email=robert@ptc-corp.com, c=US
Date: 2015.04.23 13:23:20 -04'00'



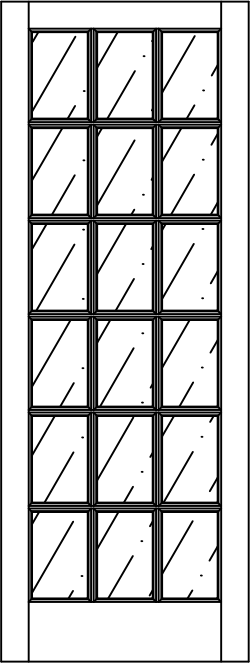
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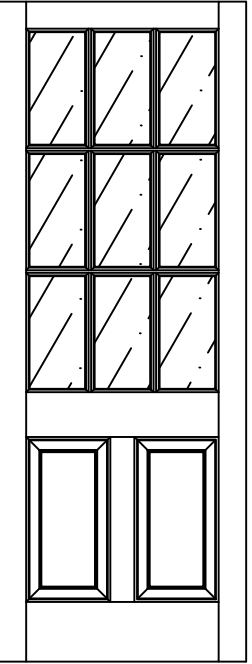
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2010

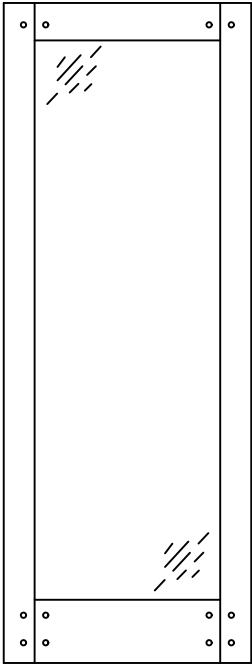


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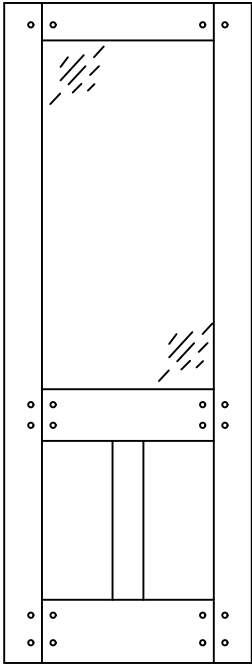


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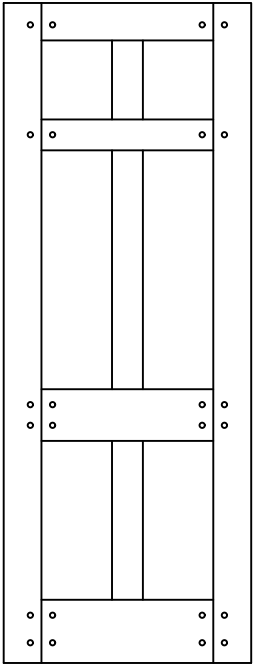
TYPICAL APPROVED PANEL CONFIGURATIONS



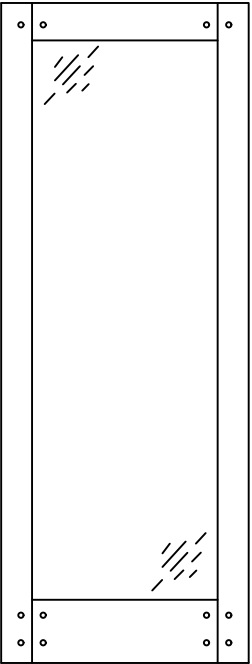
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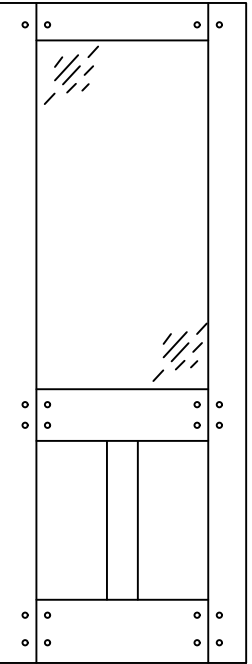
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77018
SDL only



77944
SDL only

PROJECT: #415-0307			
B	UPDATE TO 5TH EDITION (2014) FBC	04/14/15	JBH
A	UPDATE TO 2010 FBC	05/11/12	TJH
REV	DESCRIPTION	DATE	BY

SIMPSON DOOR COMPANY
400 W. SIMPSON AVENUE
McCLEARY, WASHINGTON 98557

PTC
PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520715
LONGWOOD, FLORIDA 32752

TITLE: GLAZED. & OPAQUE WOOD DOORS WITH SIDELIGHTS
TYPICAL PANEL CONFIGURATIONS

PREPARED BY:

DRAWN BY: JM

SCALE: N.T.S.

REV: B

DATE: 01/12/11

DRAWING NO: SIMP1062

SHEET: 9 OF 9

Robert J. Amoruso
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