

SIMPSON DOOR COMPANY
SERIES 7901 INSWING AND OUTSWING GLAZED WOOD DOOR
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-16-003 AND CCLI-16-004 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 (OPTIONAL) 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. WHEN USED IN AREAS OUTSIDE OF THE HIGH VELOCITY HURRICANE ZONE (HVHZ) REQUIRING WIND BORNE DEBRIS PROTECTION, THIS PRODUCT COMPLIES WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE - BUILDING AND RESIDENTIAL VOLUMES AND DOES NOT REQUIRE AN IMPACT RESISTANT COVERING. THIS PRODUCT MEETS MISSILE LEVEL "D" AND INCLUDES WIND ZONE 4 AS DEFINED IN ASTM E 1996 AS MODIFIED BY THE CURRENT EDITION OF THE FLORIDA BUILDING CODE - BUILDING AND RESIDENTIAL VOLUMES.
7. MATERIALS & HARDWARE
 - 7.1. DOOR FRAME: PINE
 - 7.2. PANEL CORE MATERIAL: WESTERN HEMLOCK OR DOUGLAS FIR
 - 7.3. PANEL FACE VENEER: VARIABLE
 - 7.4. LOCKSET: SCHLAGE F SERIES HANDLE SET WITH A SCHLAGE B60 DEADBOLT OR KWIKSET SERIES 740 LOCK AND 980 KWIKSET DEADBOLT (KWIKSET COMBO 999 PACK) AND HANDLE SET OR EQUIVALENT.
8. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-04e1 GLASS CHARTS. SEE SHEET 8 FOR GLAZING DETAILS.
9. OPERABILITY DESIGNATIONS STAND FOR THE FOLLOWING (AS APPLICABLE):
 - 9.1. X: OPERABLE PANEL
 - 9.2. O: FIXED PANEL

PERFORMANCE RATINGS				
DESIGN PRESSURE (psf)				IMPACT RATING
CONFIGURATION	PANEL STYLE	WHERE WATER PENETRATION REQUIREMENT EXISTS	WHERE WATER PENETRATION REQUIREMENT DOES NOT EXIST (NOTE 1)	
OUTSWING	FULLY GLAZED	+19 / -55	+/-55	WIND ZONE 4 MISSILE LEVEL D
	OPAQUE & GLAZED/OPAQUE	N/A	+/-55	
INSWING	FULLY GLAZED	N/A	+/-55	
	OPAQUE & GLAZED/OPAQUE	N/A	+/-55	

NOTES:

1. OVERHANG IN ACCORDANCE WITH REQUIREMENT BELOW CAN BE USED PER CHAPTER 17 OF FBC.

1.1 Door assemblies installed where the overhang (OH) ratio is equal to or more than 1. The overhang ratio shall be calculated by the following equation.

1.2 OH ratio = OH Length/OH Height, Where:

1.2.1 OH length = The horizontal measure of how far an overhang over a door projects out from door surface.

1.2.2 OH height = The vertical measure of the distance from the door sill to the bottom of the overhang over a door.

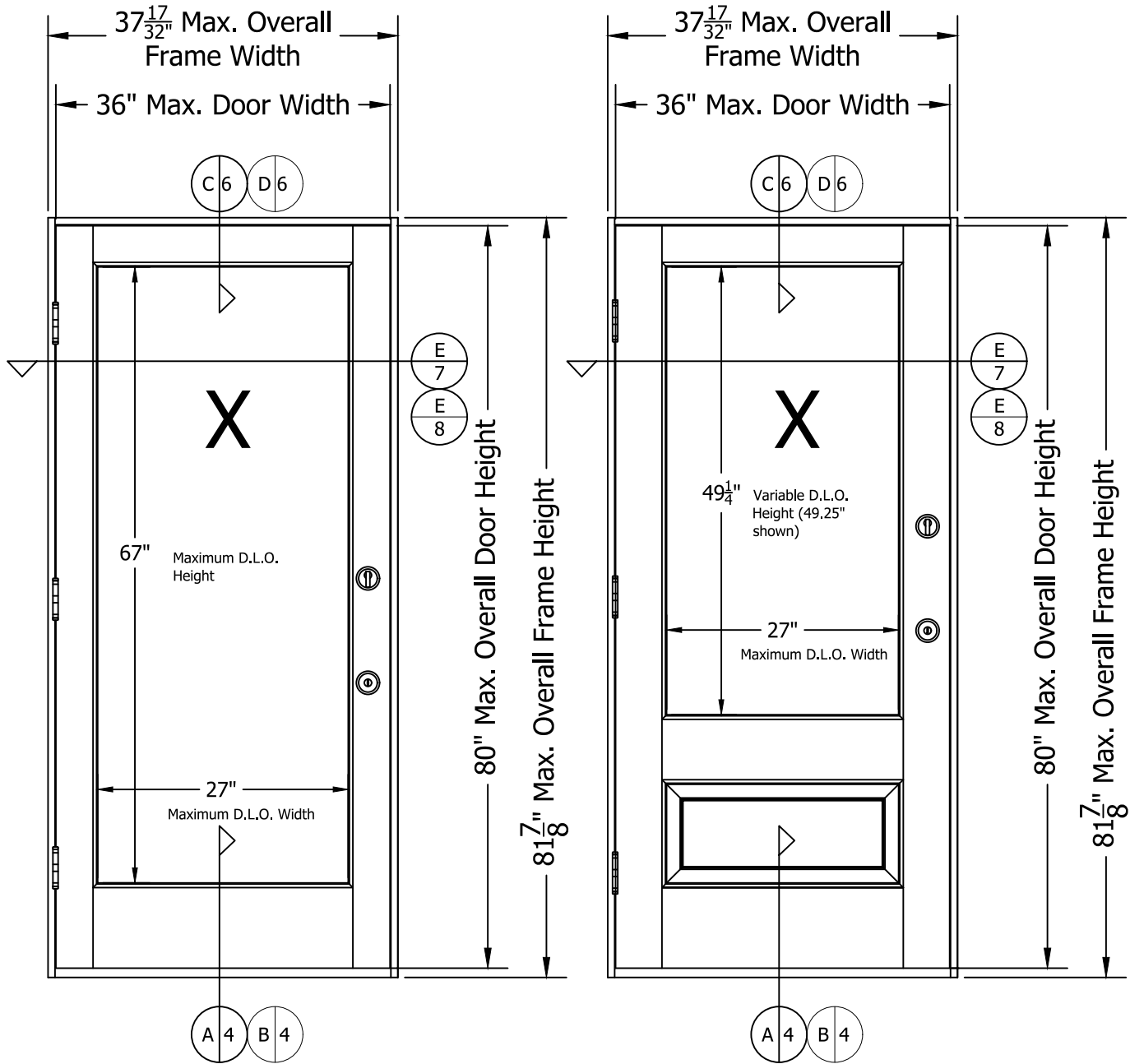
INSTALLATION NOTES:

1. ONE (1) SUBSTRATE INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN ON SHEET 3. SUBSTRATE INSTALLATION ANCHORS SHALL BE INSTALLATION PER NOTE 2 BELOW AND HINGE INSTALLATION ELEVATION ON SHEET 3.
2. HINGE TO DOOR SLAB, JAMB AND SUBSTRATE MOUNTING AS FOLLOWS.
 - 2.1. FOUR EACH #9 X ¾" PENROD SCREWS TO ATTACH EACH HINGE TO DOOR SLAB.
 - 2.2. USE TWO EACH #9 X ¾" PENROD SCREWS TO ATTACH EACH HINGE TO JAMB LEAVING TWO OUTER SCREW HOLES OPEN ON EACH HINGE TO BE USED IN SECURING THE DOOR UNIT TO THE SUPPORTING SUBSTRATE.
 - 2.3. USING TWO OUTER SCREW HOLES, SECURE DOOR UNIT INTO SUPPORTING SUBSTRATE USING APPROPRIATE INSTALLATION ANCHORS FROM INSTALLATION ANCHOR SCHEDULE BELOW.
3. ANCHORS ARE TO MATCH TYPE, SIZE, EDGE DISTANCE AND EMBEDMENT OF THOSE SHOWN IN THE INSTALLATION ANCHOR SCHEDULE ON THIS SHEET FOR THE RESPECTIVE SUBSTRATE.
4. 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.
5. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES (INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING).
6. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING. DISSIMILAR METALS OR MATERIALS IN CONTACT WITH PRESSURE TREATED WOOD MUST BE PROTECTED TO PREVENT REACTION.
7. FOR HOLLOW BLOCK AND GROUT FILLED 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 ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS. ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED IN THE INSTALLATION ANCHOR SCHEDULE ON THIS SHEET.

TABLE OF CONTENT	
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1	GENERAL AND INSTALLATION NOTES
2	ELEVATIONS
3	HARDWARE AND ANCHOR LOCATIONS
4 TO 6	VERTICAL SECTIONS
7 & 8	HORIZONTAL SECTIONS
8	PANEL GLAZING & INFILL DETAILS

INSTALLATION ANCHOR SCHEDULE							
SUBSTRATE	HEAD TYPE	SIZE	MANUFACTURER AND/OR SPECIFICATION	MIN. EMBEDMENT (IN)	MIN. EDGE DISTANCE (IN)	MIN. SPACING (IN)	CAPACITIES BASED ON
CONCRETE	FLAT HEAD	3/16"	ITW TAPCON	1 1/2	1 1/4	3	MINIMUM COMPRESSIVE STRENGTH OF 2500 psi.
			Elco Ultracon	1 3/8	1	3	
MASONRY (BLOCK/CMU)	FLAT HEAD	3/16"	ITW TAPCON	1	2	3	STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT/117 PCF DENSITY (OR GREATER) WITH COMPRESSIVE STRENGTH OF 1900 PSI MIN.
			Elco Ultracon	1 1/2	2 1/2	3	
WOOD (1)	FLAT HEAD	No. 10	ANSI B18.6.1 (WOOD SCREW) ASME B18.6.4 (TAPPING SCREW)	1 3/8	3/4	3/4	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.42
NOTES: 1) FOR WOOD AND TAPPING SCREWS WHERE SPLITTING IS A CONCERN, DRILL 0.112" (No. 34 DRILL SIZE) PILOT HOLE FOR WOOD FRAME INSTALLATION.							

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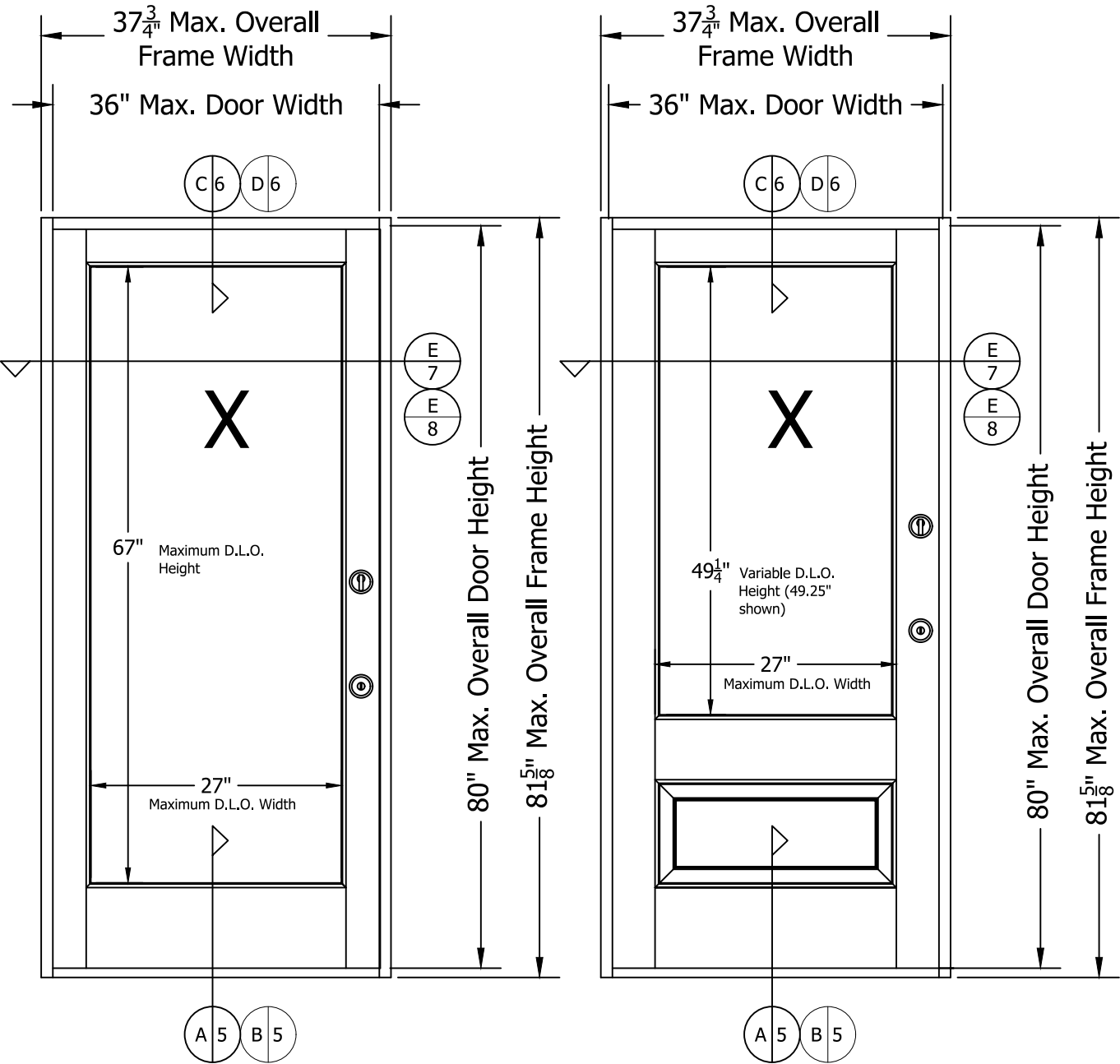
FULLY GLAZED UNIT

GLAZED/OPAQUE UNIT SHOWN

FULLY OPAQUE UNIT APPROVED.
VARIABLE MID-RAIL LOCATION APPROVED FOR
GLAZED/OPAQUE AND OPAQUE UNITS.

INSWING UNIT
ELEVATIONS

AS VIEWED FROM INTERIOR



FULLY GLAZED UNIT

GLAZED/OPAQUE UNIT SHOWN

FULLY OPAQUE UNIT APPROVED.
VARIABLE MID-RAIL LOCATION APPROVED FOR
GLAZED/OPAQUE AND OPAQUE UNITS.

OUTSWING UNIT
ELEVATIONS

AS VIEWED FROM INTERIOR

PROJECT NO. 413-0907

					BY
					DATE
					REV
					DESCRIPTION

SIMPSON DOOR COMPANY

400 W. SIMPSON AVENUE

MCCLEARY, WASHINGTON 98557

SERIES 7901 GLAZED AND/OR OPAQUE WOOD DOOR - INSWING & OUTSWING

ELEVATIONS

PREPARED BY:

DRAWN BY:

SCALE:

REV:

DATE:

DRAWING NO:

SHEET:

PTC PRODUCT DESIGN GROUP, LLC

PO BOX 520775

LONGWOOD, FLORIDA 32752

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RJA

N.T.S.

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07/10/17

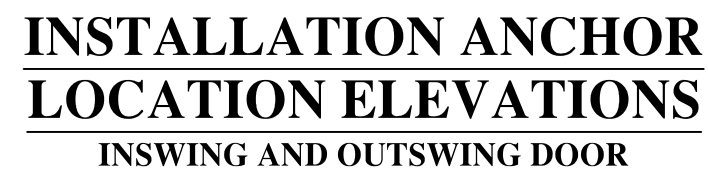
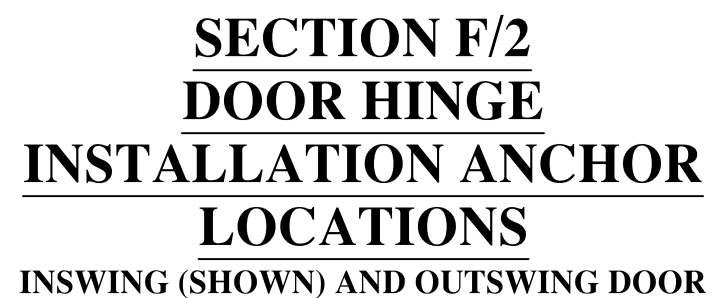
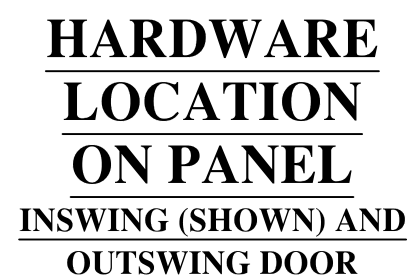
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Robert J. Amoruso, P.E.

FL P.E. No. 49752

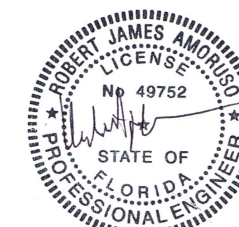
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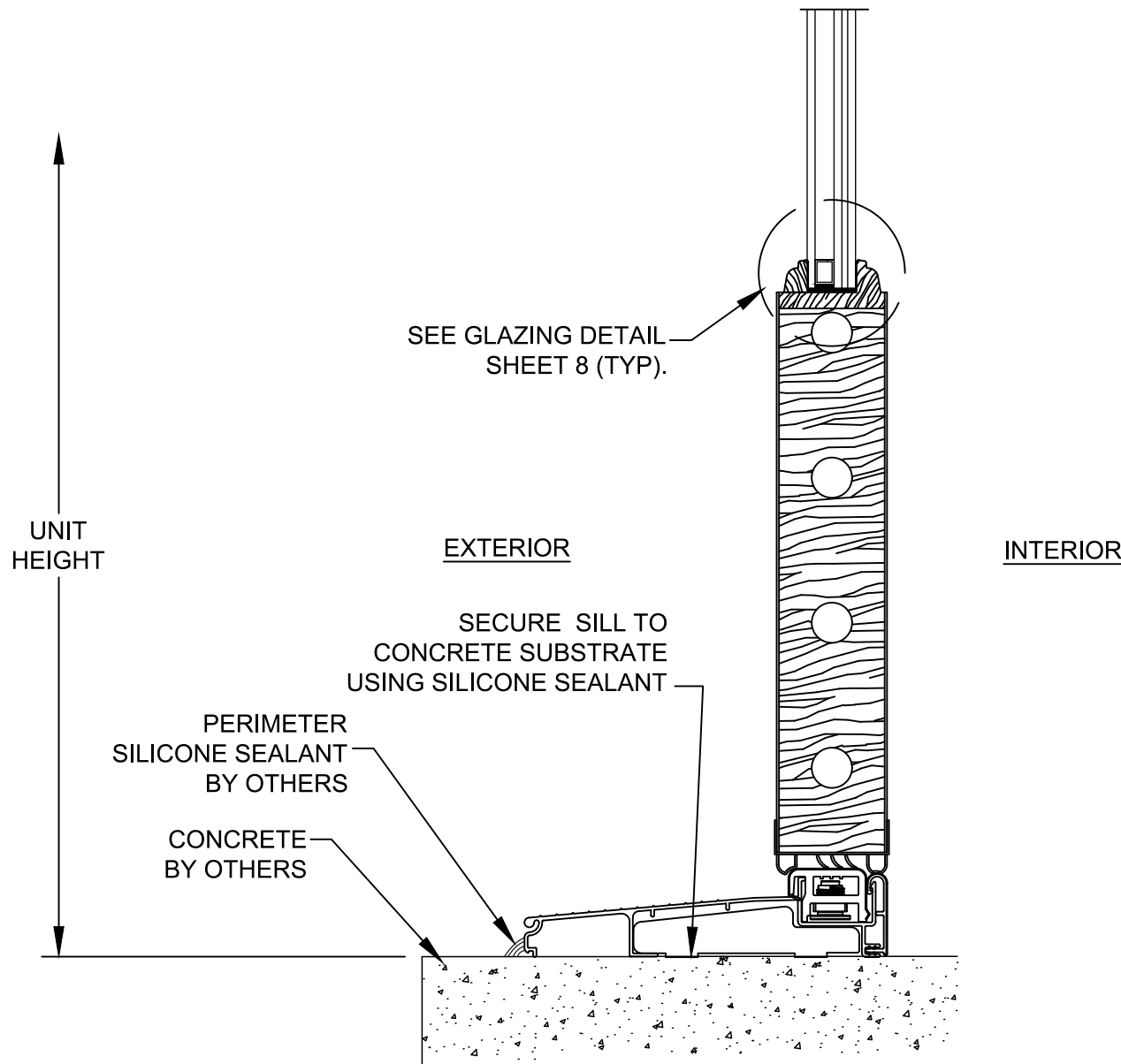
PROJECT NO. 413-0907				
REV	DESCRIPTION	DATE	BY	

CUSTOMER:	SIMPSON DOOR COMPANY 400 W. SIMPSON AVENUE McCLEARY, WASHINGTON 98557	
SERIES 7901 GLAZED AND/OR OPAQUE WOOD DOOR - INSWING & OUTSWING HARDWARE AND ANCHOR LOCATIONS		
PREPARED BY:	DRAWN BY:	DATE:
	RJA	07/10/17
	SCALE:	DRAWING NO:
	N.T.S.	SIMP0013
	REV:	SHEET:
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PDC PRODUCT DESIGN GROUP, LLC PO BOX 520775 LONGWOOD, FLORIDA 32752 Phone: 321.690.1788 Fax: 321.690.1789 Email: info@pdc-corp.com		

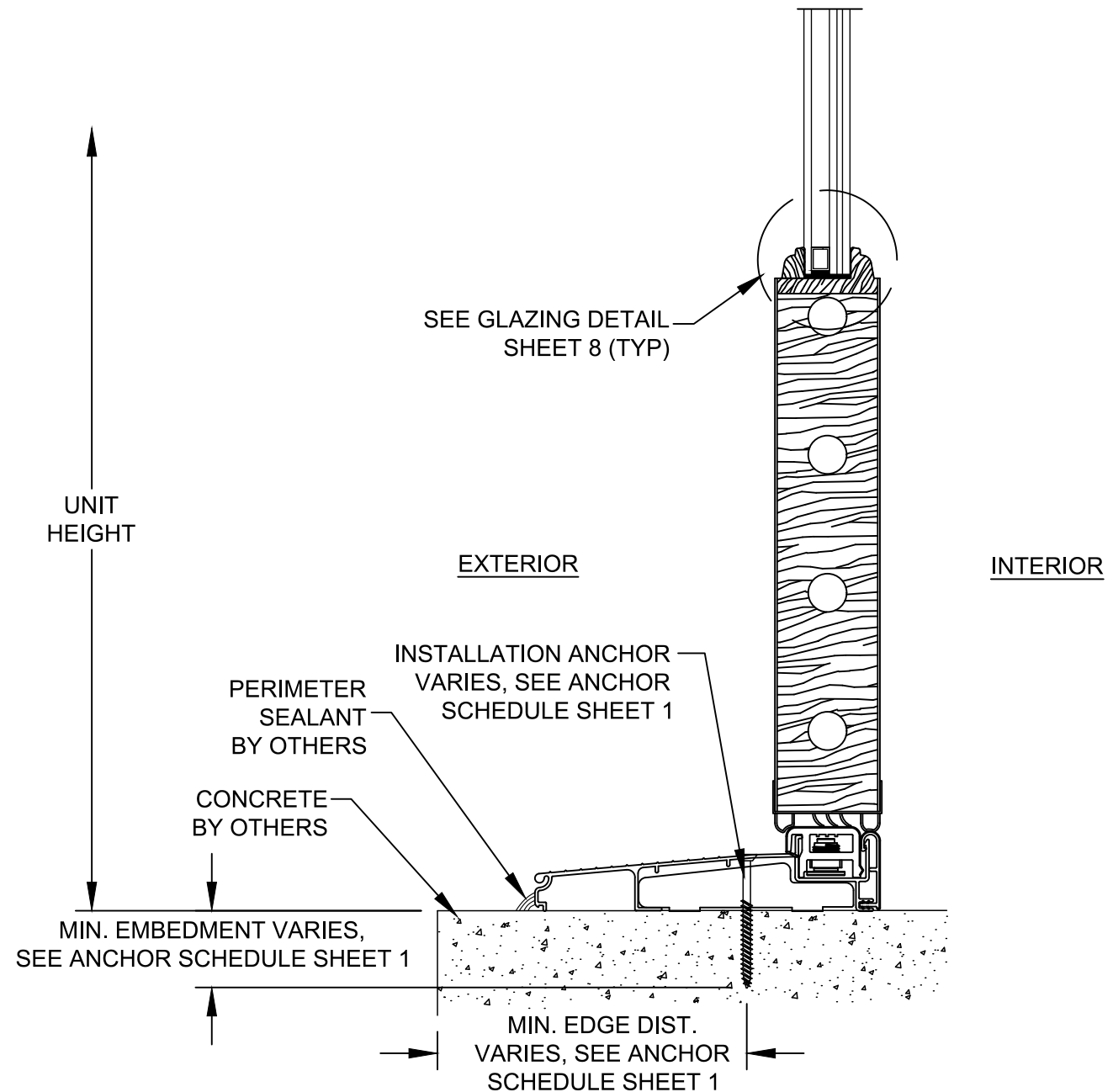
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A **VERTICAL SECTION**
CONCRETE SUBSTRATE INSTALLATION
USING SILICONE SEALANT



B **VERTICAL SECTION**
CONCRETE SUBSTRATE INSTALLATION
USING OPTIONAL FASTENER

INSWING SILL VERTICAL SECTION
(FULLY GLAZED DOOR SHOWN - GLAZED/OPAQUE & OPAQUE DOOR SAME)
ENDURA PRODUCTS, INC. Z SERIES INSWING ADJUSTABLE SILL

SILL INSTALLATION USING SILICONE SEALANT (SECT. A) REQUIRED BUT CAN BE OMITTED IF SILL INSTALLED USING OPTIONAL FASTENERS (SECT. B)

PROJECT NO. 413-0907

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

SERIES 7901 GLAZED AND/OR OPAQUE WOOD DOOR - INSWING & OUTSWING

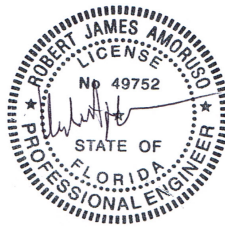
VERTICAL SECTIONS - INSWING SILL

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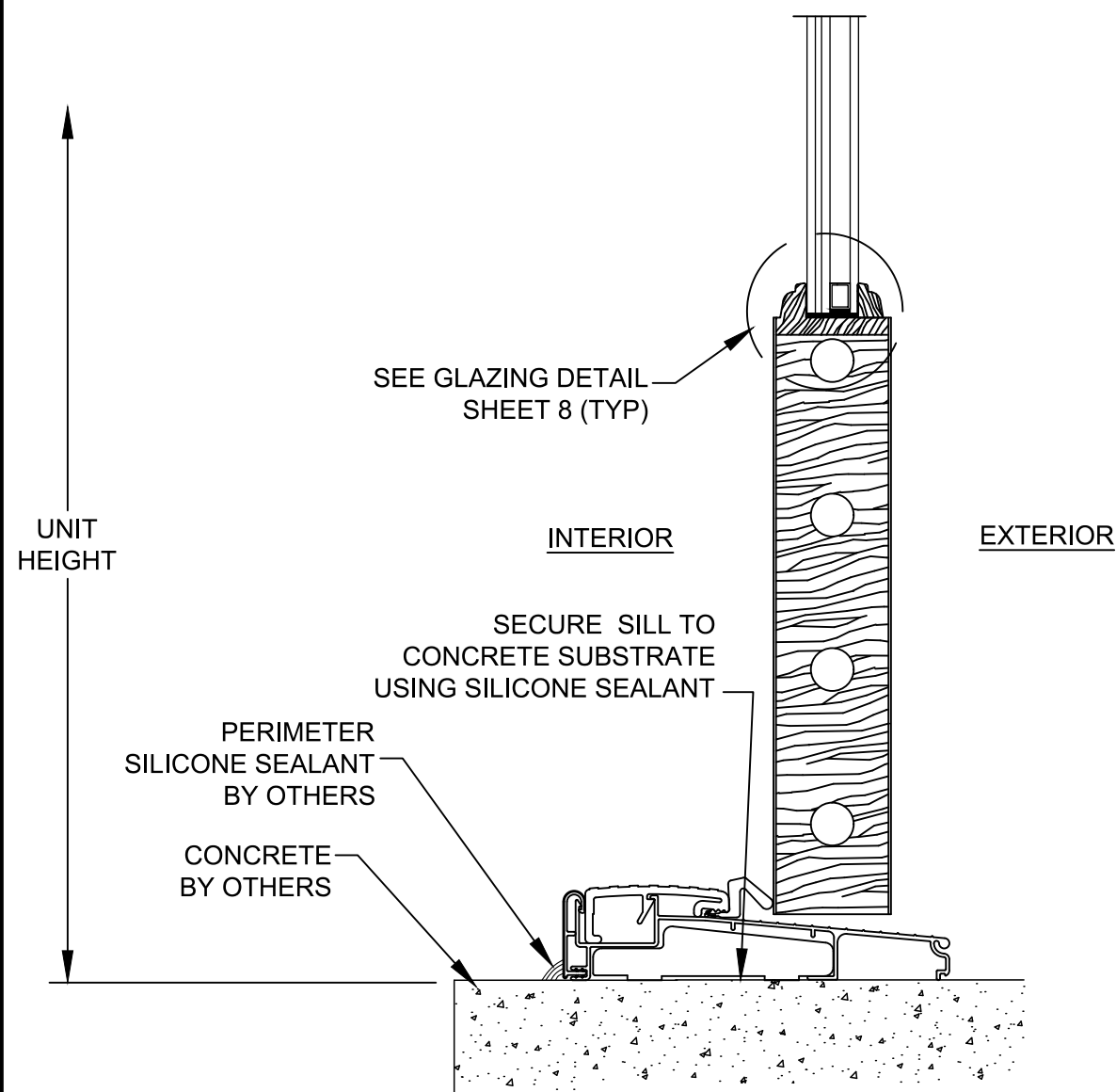
DRAWN BY: RJA
SCALE: N.T.S.
REV: ---

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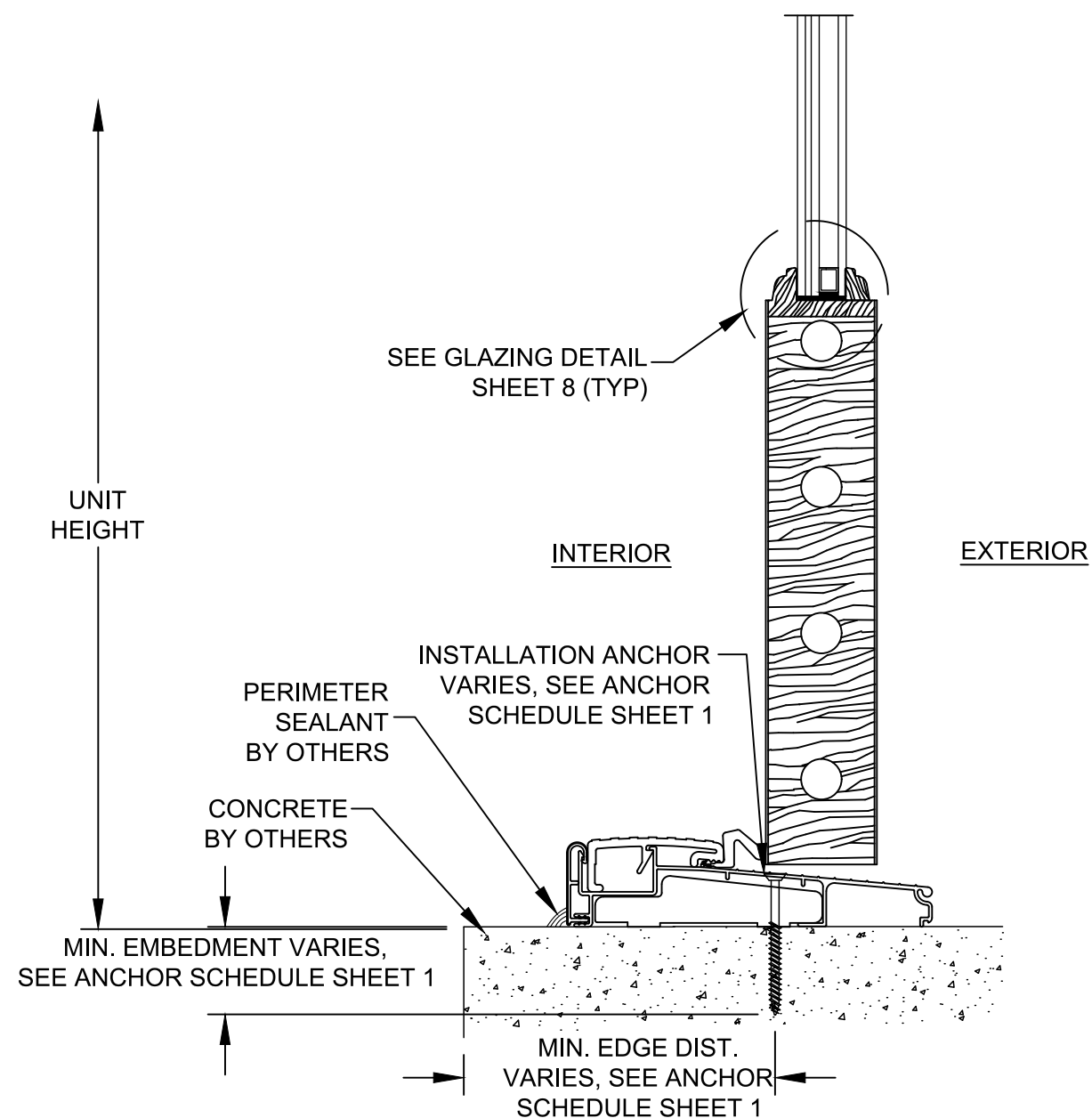


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A VERTICAL SECTION

CONCRETE SUBSTRATE INSTALLATION USING SILICONE SEALANT



B VERTICAL SECTION

CONCRETE SUBSTRATE INSTALLATION USING OPTIONAL FASTENER

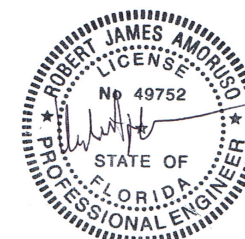
OUTSWING SILL VERTICAL SECTION
(FULLY GLAZED DOOR SHOWN - GLAZED/OPAQUE & OPAQUE DOOR SAME)
ENDURA PRODUCTS, INC. Z SERIES OUTSWING BUMPER SILL

SILL INSTALLATION USING SILICONE SEALANT (SECT. A) REQUIRED BUT CAN BE OMITTED IF SILL INSTALLED USING OPTIONAL FASTENERS (SECT. B)

PROJECT NO. 413-0907				
REV	DESCRIPTION	DATE	BY	

CUSTOMER: SIMPSON DOOR COMPANY 400 W. SIMPSON AVENUE McCLEARY, WASHINGTON 98557 SERIES 7901 GLAZED AND/OR OPAQUE WOOD DOOR- INSWING & OUTSWING VERTICAL SECTIONS - OUTSWING SILL	PREPARED BY:			
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	SCALE: N.T.S.		Fax: 321.690.1789 Email: info@pdc-corp.com	
	DATE: 07/10/17		DRAWING NO: SIMP0013	
	REV: ---		SHEET: 5 OF 8	

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