

SIMPSON DOOR COMPANY

IMPACT SERIES 7001 IN/OUTSWING GLAZED WOOD DOORS

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1.

THE PRODUCT SHOWN HEREIN IS DESIGNED TO COMPLY WITH THE 9TH EDITION (2026) 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-05-082, CCLI-05-083, CCLI-07-105 AND CCLI-07-106 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.

WHEN USED IN AREAS OUTSIDE OF THE HIGH VELOCITY HURRICANE ZONE (HVHZ) REQUIRING WIND BORNE DEBRIS PROTECTION, THIS PRODUCT COMPLIES WITH THE 9TH EDITION (2026) 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 9TH EDITION (2026) FLORIDA BUILDING CODE - BUILDING AND RESIDENTIAL VOLUMES.
7.

MATERIALS

7.1.

DOOR FRAME: PINE

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 LOCK: TITAN KWIKSET

7.6.

DEADBOLT: TITAN KWIKSET

7.7.

SURFACE BOLTS: IVES #253B-8" BRASS

7.8.

FLUSH BOLTS: IVES

7.9.

ASTRAGAL: SIMPSON WOOD T-ASTRAGAL

7.10.

THRESHOLD: ENDURA PRODUCTS INSWING ADJUSTABLE #ZAI5625

7.11.

THRESHOLD: ENDURA PRODUCTS OUTSWING #ZFOB5625
8.

GLASS MEETS THE REQUIREMENTS OF ASTM E1300-24. SEE SHEET 4 FOR GLAZING DETAIL.
9.

DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING (AS APPLICABLE):

9.1.

X: OPERABLE PANEL

9.2.

O: FIXED PANEL

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 ANCHOR IS REQUIRED IN EACH HINGE. LOCATE HINGE ANCHORS IN THE OUTERMOST HOLES OF THE HINGE LEAF INTO THE HINGE JAMB.
3.

ANCHORS ARE TO MATCH TYPE, SIZE, EDGE DISTANCE AND EMBEDMENT OF THOSE SHOWN IN THE INSTALLATION ANCHOR SCHEDULE ON SHEET 5 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.

ALL INSTALLATION FASTENERS TO BE CORROSION RESISTANT AND/OR HAVE A CORROSION RESISTANT COATING.

6.1.

WHEN EXPOSED TO SALTWATER ENVIRONMENTS WITHIN 3,000 FEET OF A SALTWATER COASTLINE MEET THE REQUIREMENTS OF SECTION 1711, 9TH EDITION (2026) FBC AND SECTION R332, 9TH EDITION (2026) FRC WHEN APPLICABLE.

6.1.

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 SHEET 5.

| PERFORMANCE RATINGS |          |         |                                                                                              |                       |                                |
|---------------------|----------|---------|----------------------------------------------------------------------------------------------|-----------------------|--------------------------------|
| MAXIMUM DOOR SIZE   | SWING    | CONFIG. | LIMITED WATER RESISTANCE RATING (PSF)                                                        | DESIGN PRESSURE (PSF) | IMPACT RATING                  |
| 74-5/8" x 97-3/4"   | OUTSWING | XX      | +19.1<br><br>No Leakage at 2.86 psf<br>Water Resistance per<br>ASTM E547<br>(SEE NOTE 1 & 3) | +/-52.5               | WIND ZONE 4<br>MISSILE LEVEL D |
|                     | INSWING  | XX      | NOT TESTED<br>(SEE NOTE 2 & 3)                                                               | +/-52.5               |                                |

WATER PENETRATION RESISTANCE OVERHANG REQUIREMENTS:

1.

OUTSWING CONFIGURATION:

1.1.

THIS PRODUCT HAS BEEN TESTED FOR LIMITED WATER PENETRATION PER ASTM E547. IT SHALL ONLY BE USED IN AREAS WHERE WATER PENETRATION REQUIREMENTS DO NOT EXIST OR WHERE AN OVERHANG MEETING THE REQUIREMENTS OF SECTION 1709.5.1 OR SECTION 1709.5.2 OF THE 9TH EDITION (2026) FLORIDA BUILDING CODE OR SECTION R609.3 OF THE 9TH EDITION (2026) FLORIDA RESIDENTIAL CODE IS USED.
2.

INSWING CONFIGURATION:

2.1.

THIS PRODUCT HAS NOT BEEN TESTED FOR LIMITED WATER PENETRATION. IT SHALL ONLY BE USED IN AREAS WHERE WATER PENETRATION REQUIREMENTS DO NOT EXIST OR WHERE AN OVERHANG MEETING THE REQUIREMENTS OF SECTION 1709.5.2 OF THE 9TH EDITION (2026) FLORIDA BUILDING CODE OR SECTION R609.5 OF THE 9TH EDITION (2026) FLORIDA RESIDENTIAL CODE IS USED.
3.

SIDE-HINGED DOORS ARE ONLY REQUIRED TO MEET THE OVERHANG REQUIREMENTS OF SECTION 1709.5.2 OF THE 9TH EDITION (2026) FLORIDA BUILDING CODE.

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

SIGNED/SEALED: 8/14/26

PROJECT NO. ACE-2025-134

UPDATE TO THE 9TH EDITION (2026) FBC

D

RJA

8/14/26

UPDATE TO 5th EDITION (2014) FBC

C

JBH

04/14/15

UPDATE TO 2010 FBC

B

TJH

05/08/12

BY

DATE

REV

DESCRIPTION

SIMPSON DOOR COMPANY

400 W. SIMPSON AVENUE

McCLEARY, WASHINGTON 98557

TITLE:

IMPACT SERIES 7001 INSWING GLAZED WOOD DOORS

GENERAL AND INSTALLATION NOTES

PREPARED BY:

AMORUSO CONSULTING ENG., LLC

FBPE REGISTRATION NO. 38327

226 N NOVA RD, NO. 142

ORMOND BEACH, FL 32114

RJAENGPE@GMAIL.COM

DRAWN BY:

SMC

DATE:

01/07/09

SCALE:

N.T.S.

DRAWING NO:

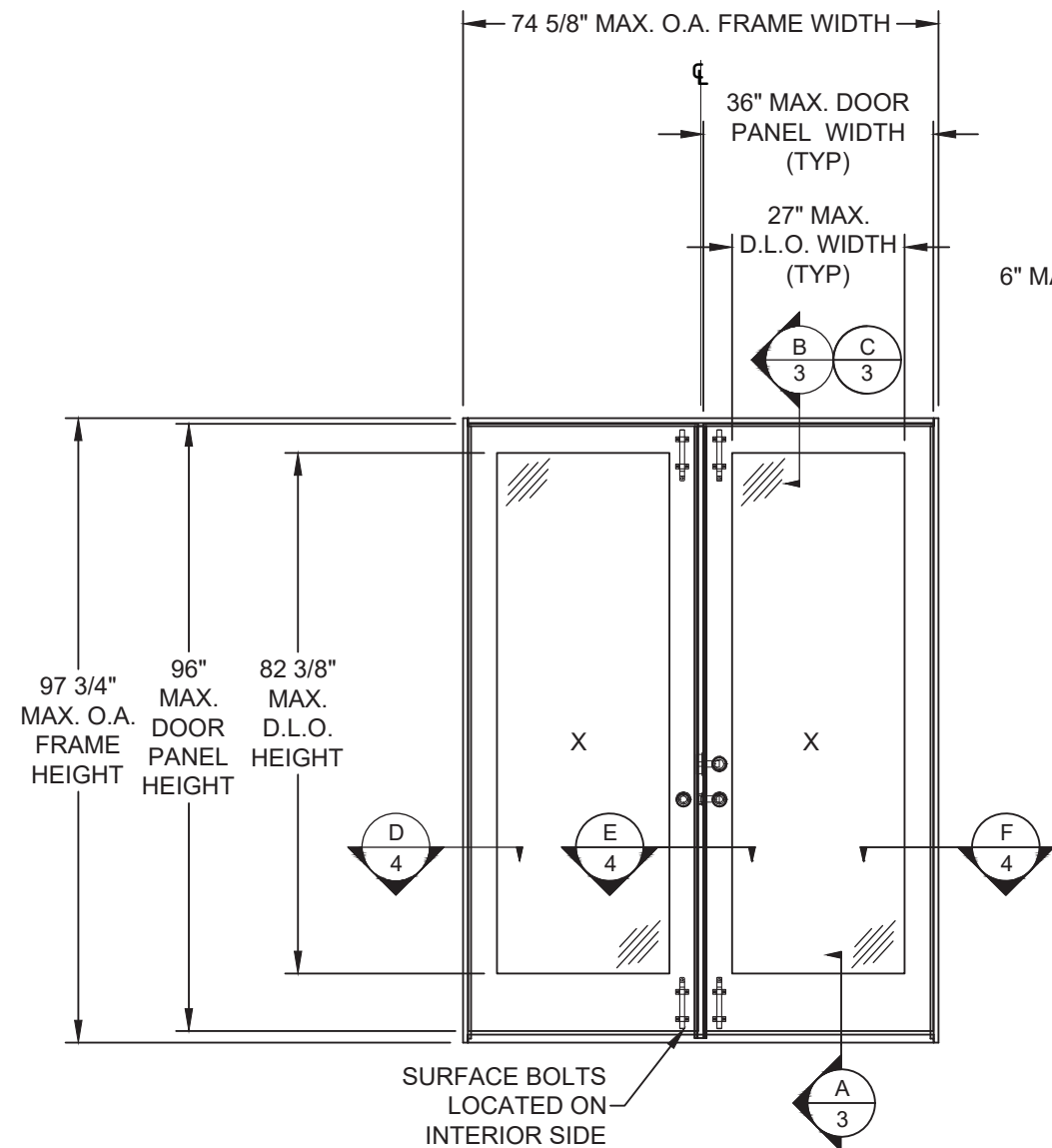
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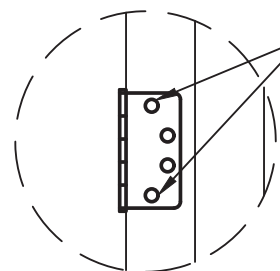
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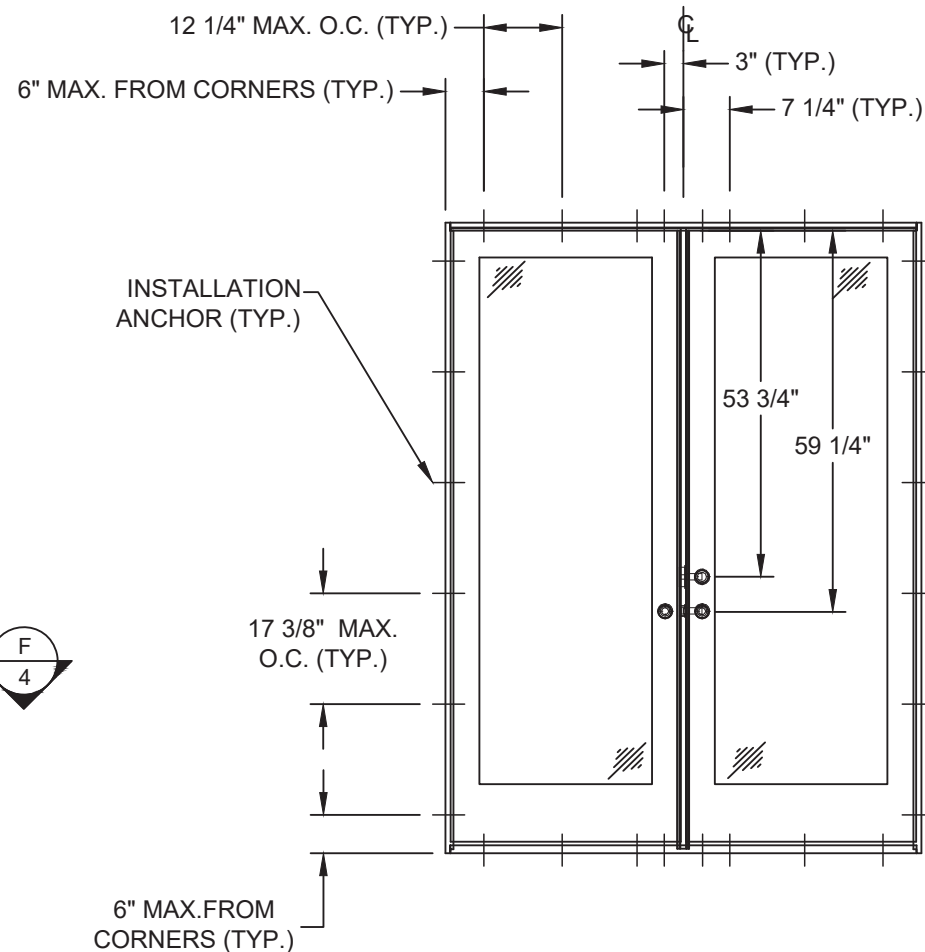
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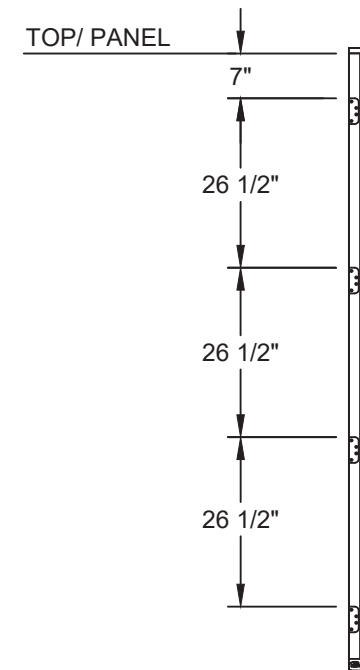
**ELEVATION**  
EXTERIOR VIEW



**NOTE:** LOCATE TWO (2) INSTALLATION ANCHORS THRU EACH HINGE (ONE (1) ON UPPER AND LOWER HOLES)



**ANCHOR LAYOUT**  
EXTERIOR VIEW  
(SEE INSTALLATION NOTE 2)



**HINGE JAMB ELEVATION**

PROJECT NO. ACE-2025-134

| REV | DESCRIPTION                          | DATE     | BY  |
|-----|--------------------------------------|----------|-----|
| D   | UPDATE TO THE 9TH EDITION (2026) FBC | 8/14/26  | RJA |
| C   | UPDATE TO 5th EDITION (2014) FBC     | 04/14/15 | JBH |
| B   | UPDATE TO 2010 FBC                   | 05/08/12 | TJH |

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

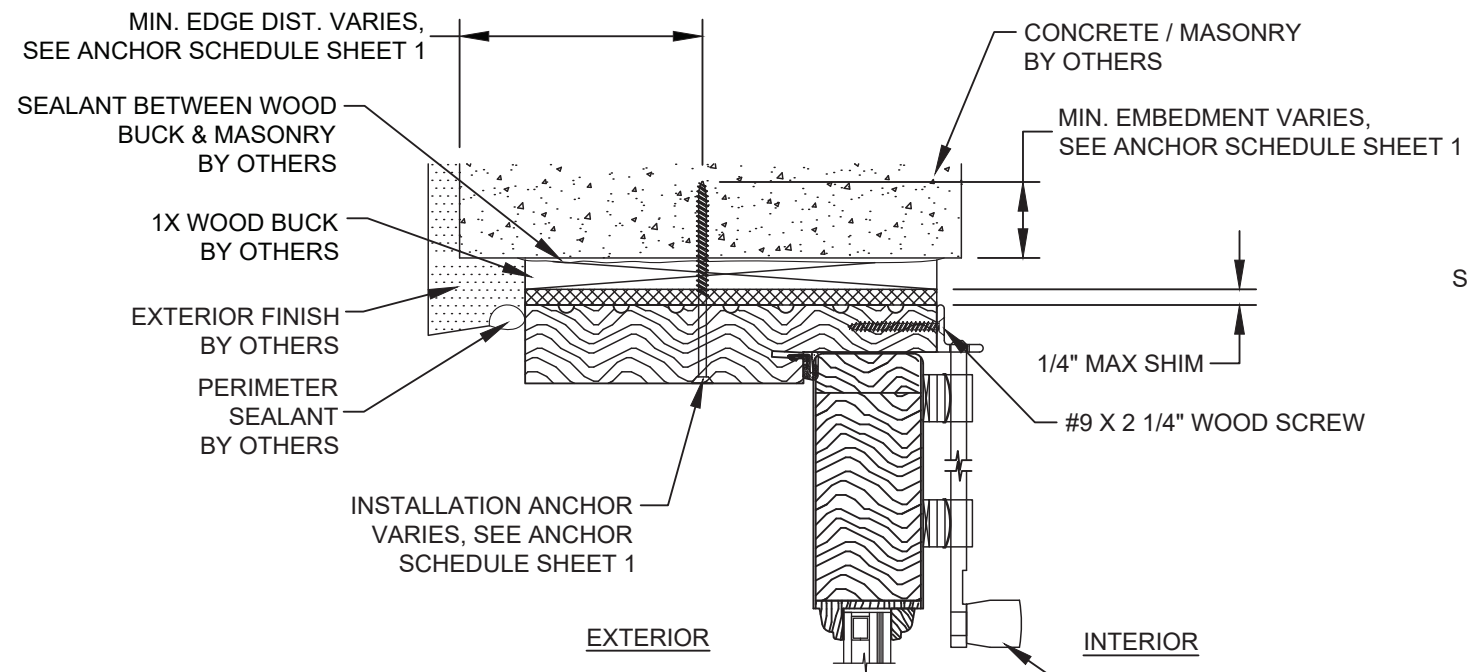
**TITLE:** IMPACT SERIES 7001 INSWING GLAZED WOOD DOORS  
ELEVATION & ANCHOR LAYOUT

|                                                                                                                                                       |                          |                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------|
| PREPARED BY:<br>AMORUSO CONSULTING ENG., LLC<br>FBPE REGISTRATION NO. 38327<br>226 N NOVA RD, NO. 142<br>ORMOND BEACH, FL 32174<br>RJAENGPE@GMAIL.COM | DRAWN BY:<br>SMC         | DATE:<br>01/07/09 |
| SCALE:<br>N.T.S.                                                                                                                                      | DRAWING NO.:<br>SIMP0008 |                   |
| REV:<br>D                                                                                                                                             | SHEET:<br>2 OF 5         |                   |

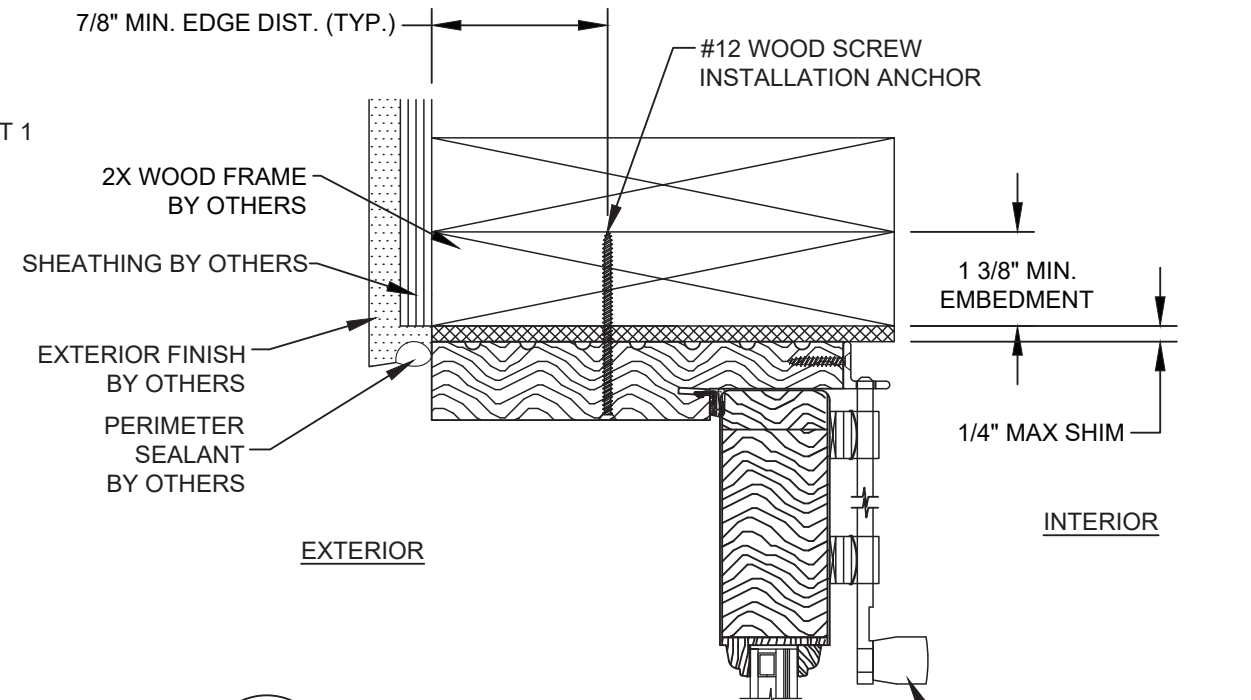
Robert J. Amoruso, P.E.  
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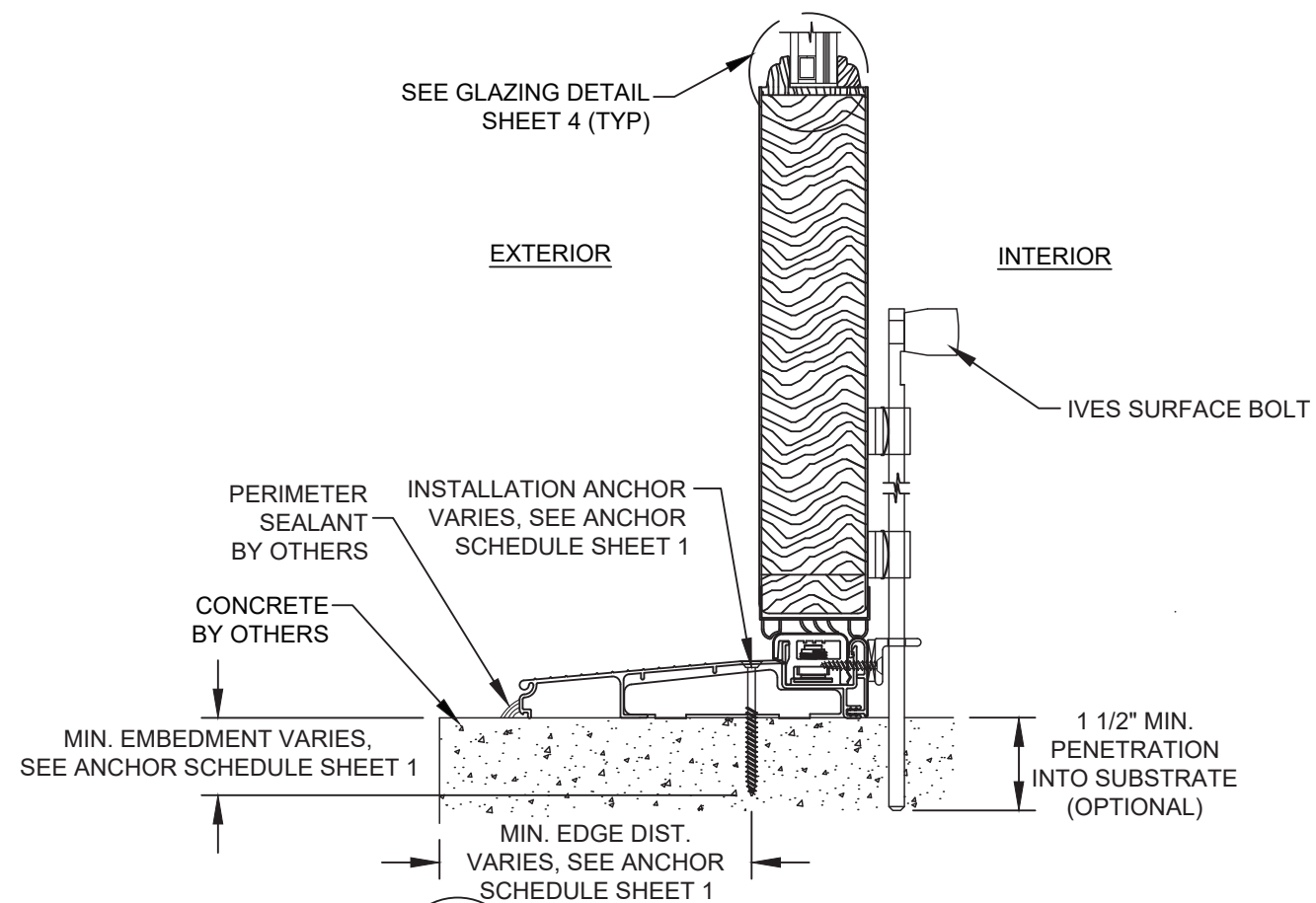
SIGNED/SEALED: 8/14/26



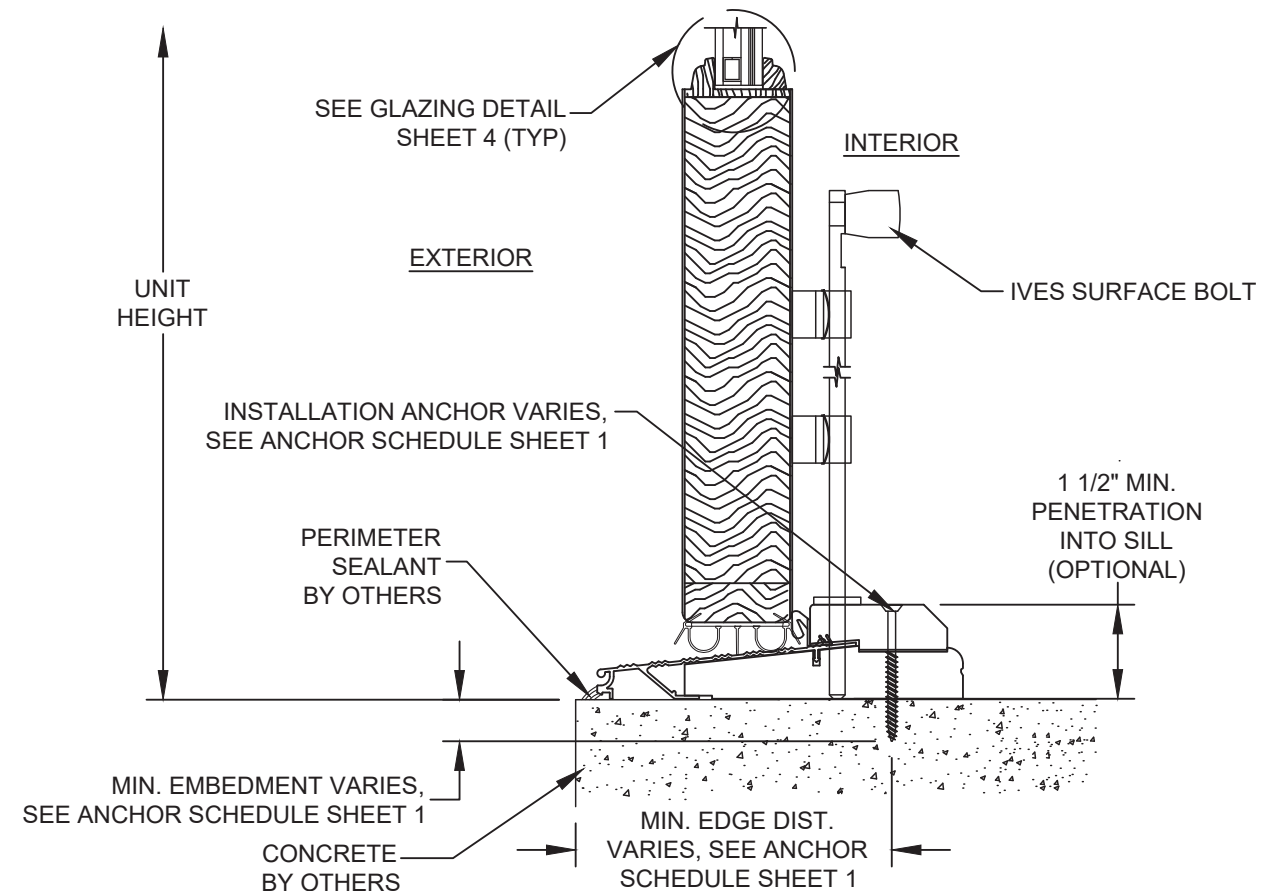
**B VERTICAL SECTION**  
CONCRETE / MASONRY SUBSTRATE  
INSWING SHOWN, OUTSWING REVERSED



**C VERTICAL SECTION**  
WOOD SUBSTRATE  
INSWING SHOWN, OUTSWING REVERSED



**A VERTICAL SECTION**  
INSWING SILL  
CONCRETE SUBSTRATE



**A VERTICAL SECTION**  
OUT-SWING SILL  
CONCRETE SUBSTRATE

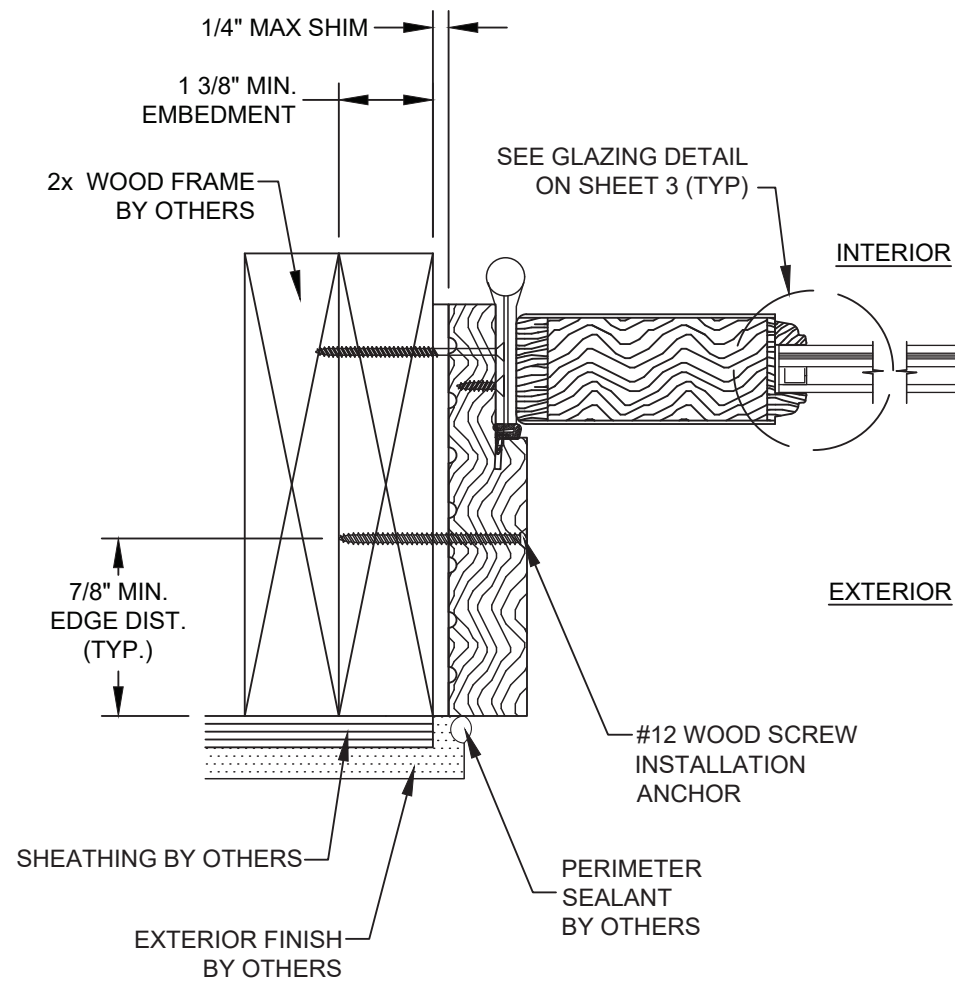
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| PROJECT NO. ACE-2025-134             |                                  |                    |             |      |
| RJA                                  | 8/14/26                          | JBH                | TJH         | BY   |
| UPDATE TO THE 9TH EDITION (2026) FBC | UPDATE TO 5th EDITION (2014) FBC | UPDATE TO 2010 FBC | DESCRIPTION | DATE |
| D                                    | C                                | B                  | REV         |      |

|                                                                                                                                       |                |                      |               |  |
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| SIMPSON DOOR COMPANY<br>400 W. SIMPSON AVENUE<br>McCLEARY, WASHINGTON 98557                                                           |                |                      |               |  |
| TITLE: IMPACT SERIES 7001 INSWING GLAZED WOOD DOORS<br>VERTICAL SECTIONS & GLAZING DETAIL                                             |                |                      |               |  |
| DRAWN BY: SMC                                                                                                                         | DATE: 01/07/09 | DRAWING NO: SIMP0008 | SHEET: 3 OF 5 |  |
| AMORUSO CONSULTING ENG., LLC<br>FBPE REGISTRATION NO. 38327<br>226 N NOVA RD, NO. 142<br>ORMOND BEACH, FL 32174<br>RJAENGPE@GMAIL.COM | SCALE: N.T.S.  | REV: D               |               |  |

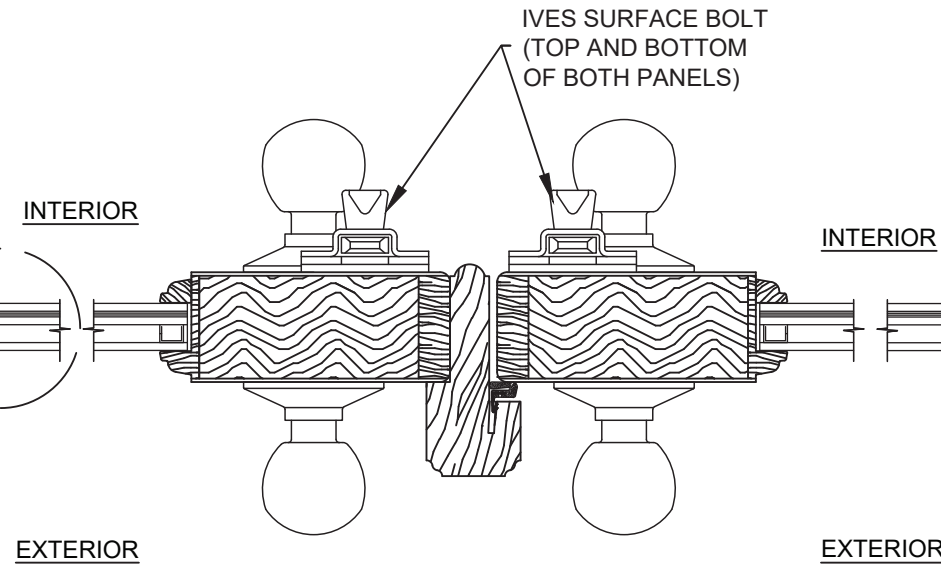
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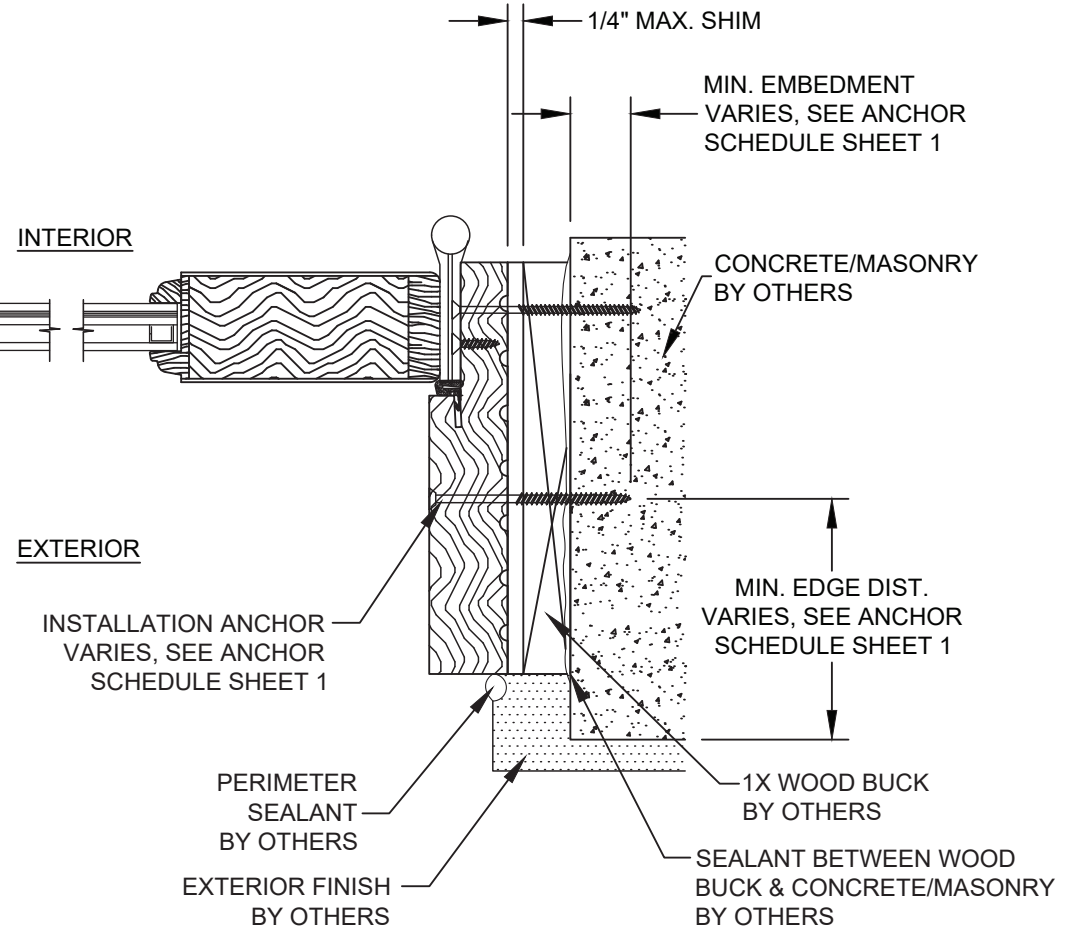
SIGNED/SEALED: 8/14/26



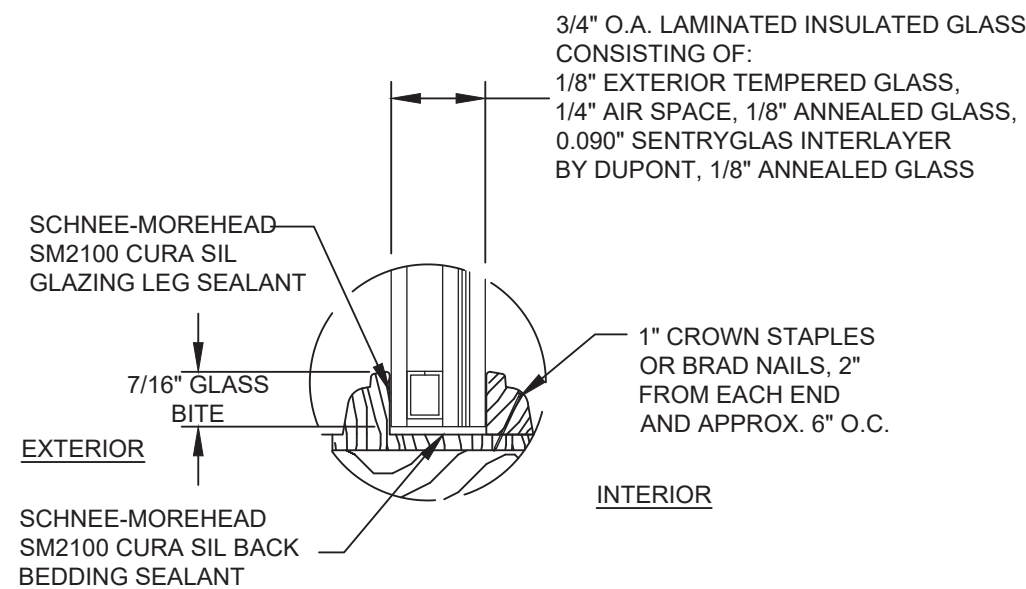
**D HORIZONTAL SECTION**  
WOOD SUBSTRATE  
INSWING SHOWN, OUTSWING REVERSED



**E HORIZONTAL SECTION**  
ASTRAGAL  
INSWING SHOWN, OUTSWING REVERSED



**F HORIZONTAL SECTION**  
CONCRETE / MASONRY SUBSTRATE  
INSWING SHOWN, OUTSWING REVERSED



**GLAZING DETAIL**

|                                      |                                  |                    |             |      |
|--------------------------------------|----------------------------------|--------------------|-------------|------|
| PROJECT NO. ACE-2025-134             |                                  |                    |             |      |
| RJA                                  | 8/14/26                          | JBH                | TJH         | BY   |
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|                                                                                                                                                                  |                |                      |               |  |
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| <b>SIMPSON DOOR COMPANY</b><br>400 W. SIMPSON AVENUE<br>McCLEARY, WASHINGTON 98557<br>TITLE: IMPACT SERIES 7001 INSWING GLAZED WOOD DOORS<br>HORIZONTAL SECTIONS |                |                      |               |  |
| DRAWN BY: SMC                                                                                                                                                    | DATE: 01/07/09 | DRAWING NO: SIMP0008 | SHEET: 4 OF 5 |  |
| PREPARED BY: AMORUSO CONSULTING ENG., LLC<br>FBPE REGISTRATION NO. 38327<br>226 N NOVA RD, NO. 142<br>ORMOND BEACH, FL 32174<br>RJAENGPE@GMAIL.COM               | SCALE: N.T.S.  | REV: D               |               |  |

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SIGNED/SEALED: 8/14/26

| INSTALLATION ANCHOR SCHEDULE                                                                                                                                                                                                                             |           |        |                                                                 |                           |                            |                      |                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------|-----------------------------------------------------------------|---------------------------|----------------------------|----------------------|-------------------------------------------------------------------------------|
| SUBSTRATE                                                                                                                                                                                                                                                | HEAD TYPE | SIZE   | MANUFACTURER<br>AND/OR<br>SPECIFICATION                         | MIN.<br>EMBEDMENT<br>(IN) | MIN. EDGE<br>DISTANCE (IN) | MIN.<br>SPACING (IN) | CAPACITIES BASED ON                                                           |
| CONCRETE<br>(HEAD)                                                                                                                                                                                                                                       | FLAT HEAD | 1/4"   | ITW TAPCON (2)                                                  | 1 1/2                     | 1 1/2                      | 3                    | MIN. 2000 PSI CONCRETE BUT NOT<br>LESS THAN THAT REQUIRED BY<br>BUILDING CODE |
|                                                                                                                                                                                                                                                          |           |        | Elco Ultracon                                                   | 1 3/8                     | 1                          | 4 1/16               | MIN. 2500 PSI CONCRETE BUT NOT<br>LESS THAN THAT REQUIRED BY<br>BUILDING CODE |
| CONCRETE (SILL)                                                                                                                                                                                                                                          | FLAT HEAD | 1/4"   | ITW TAPCON (2)                                                  | 1 1/2                     | 1 1/2                      | 3                    | MIN. 2000 PSI CONCRETE BUT NOT<br>LESS THAN THAT REQUIRED BY<br>BUILDING CODE |
|                                                                                                                                                                                                                                                          |           |        | Elco Ultracon                                                   | 1 3/8                     | 1                          | 4 1/16               | MIN. 2500 PSI CONCRETE BUT NOT<br>LESS THAN THAT REQUIRED BY<br>BUILDING CODE |
| MASONRY<br>(BLOCK/CMU)<br>(JAMBS)                                                                                                                                                                                                                        | FLAT HEAD | 1/4"   | ITW TAPCON (2)                                                  | 1                         | 2                          | 3                    | STRENGTH CONFORMANCE TO<br>ASTM C-90, MEDIUM WEIGHT<br>DENSITY > 117 PCF      |
|                                                                                                                                                                                                                                                          |           |        | Elco Ultracon                                                   | 1 3/8                     | 1                          | 4 1/16               | STRENGTH CONFORMANCE TO<br>ASTM C-90, MEDIUM WEIGHT                           |
| WOOD (HEAD,<br>SILL, JAMBS) (1)                                                                                                                                                                                                                          | FLAT HEAD | No. 12 | ANSI B18.6.1<br>(WOOD SCREW)<br>ASME B18.6.4<br>(TAPPING SCREW) | 1 3/8                     | 7/8                        | 7/8                  | WOOD WITH A MINIMUM<br>SPECIFIC GRAVITY OF 0.42                               |
| <b>NOTES:</b><br>1) FOR WOOD AND TAPPING SCREWS IF SPLITTING IS A CONCERN, DRILL 3/32" PILOT HOLE FOR WOOD FRAME INSTALLATION.<br>2) WHEN ITW TAPCONS ARE USED FOR CONCRETE/MASONRY INSTALLATION, THEY SHALL BE THE ADVANCED THREADFORM TECHNOLOGY TYPE. |           |        |                                                                 |                           |                            |                      |                                                                               |



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|                                              |  |                                           |         |                             |     |                        |
|----------------------------------------------|--|-------------------------------------------|---------|-----------------------------|-----|------------------------|
| PROJECT NO. ACE-2025-134                     |  | RJA                                       | 8/14/26 | JBH                         | TJH | BY                     |
| UPDATE TO THE 9TH EDITION (2026) FBC         |  | D                                         | C       | B                           | REV | DESCRIPTION            |
| UPDATE TO 5th EDITION (2014) FBC             |  | DATE: 01/07/09                            |         | DRAWING NO: SIMP0008        |     | SHEET: 5 OF 5          |
| IMPACT SERIES 7001 INSWING GLAZED WOOD DOORS |  | DRAWN BY: SMC                             |         | SCALE: N.T.S.               |     | REV: D                 |
| INSTALLATION ANCHOR SCHEDULE                 |  | PREPARED BY: AMORUSO CONSULTING ENG., LLC |         | FBPE REGISTRATION NO. 38327 |     | 226 N NOVA RD, NO. 142 |
| 400 W. SIMPSON AVENUE                        |  | McCLEARY, WASHINGTON 98557                |         | ORMOND BEACH, FL 32174      |     | RJAENGPE@GMAIL.COM     |
| SIMPSON DOOR COMPANY                         |  | TITLE:                                    |         | DATE:                       |     |                        |
| 400 W. SIMPSON AVENUE                        |  | McCLEARY, WASHINGTON 98557                |         | DATE:                       |     |                        |
| IMPACT SERIES 7001 INSWING GLAZED WOOD DOORS |  | DRAWN BY: SMC                             |         | SCALE: N.T.S.               |     | REV: D                 |
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