

# PLYCO CORPORATION

## SERIES 95EV FLUSH STEEL OUTSWING DOOR (NON-IMPACT)



PLYCO CORPORATION  
P.O. BOX 386  
500 INDUSTRIAL RD.  
ELKHART LAKE WI 53020  
PH: (920) 876-3611 FX: (920) 876-3527

### INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN UNLESS OTHERWISE NOTED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR INSTALLATION INTO WOOD FRAMING USE **#10 WOOD SCREWS** OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE **3/16 INCH DIAMETER ITW TAPCONS** OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
- FOR INSTALLATION INTO STEEL STUD FRAME USE **#10-16 TEK SCREWS** OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 3 THREADS PENETRATION BEYOND STEEL STRUCTURE.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- 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.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
  - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42.
  - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2700 PSI.
  - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER), MIN. COMPRESSIVE STRENGTH = 1.5 KSI.
  - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 48 MILS (18 GAUGE).

### GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2006 INTERNATIONAL BUILDING CODE (IBC) AND INTERNATIONAL RESIDENTIAL CODE (IRC) WITH 2006 TEXAS REVISIONS, EFFECTIVE JANUARY 1, 2008 EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
  - AAMA/WDMA/CSA 101/I.S.2/A440-05
- 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 FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 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 ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 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, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- FRAME MATERIAL: ALUMINUM 6063-T5 & CS-B STEEL

TABLE OF CONTENTS		
SHEET	REVISION	SHEET DESCRIPTION
1	-	INSTALLATION & GENERAL NOTES
2	-	ELEVATION & ANCHOR LAYOUT
3	-	VERTICAL SECTIONS
4	-	HORIZONTAL SECTIONS
5	-	COMPONENTS & BILL OF MATERIALS

DESIGN PRESSURE RATING			
LOCK TYPE	DESIGN PRESSURE - ALL SIZES		MISSILE IMPACT RATING
SINGLE POINT	+50.0 / -50.0 PSF *	W/O WATER INFILTRATION	NON-IMPACT
SINGLE POINT W/ DEAD BOLT	+75.0 / -75.0 PSF *	W/O WATER INFILTRATION	NON-IMPACT

\*UNIT SHALL BE INSTALLED AT LOCATION PROTECTED BY OVERHANG SUCH THE OVERHANG RATIO (OH) = OH LENGTH/OH HEIGHT GREATER THAN 1.0 WHERE WATER INFILTRATION IS REQUIRED.

TITLE: SERIES 95EV FLUSH STEEL OUTSWING DOOR  
INSTALLATION & GENERAL NOTES

PREPARED BY:  
CERTWORKS, LLC  
127 W. FAIRBANKS AVE., STE. 438  
WINTER PARK, FL 32789  
(407) 644-6957 FX: (407) 644-2366

REVISIONS	DESCRIPTION	DATE
	NO.	BY

ALEXIS SPYROU  
TEXAS P.E. NO. 102957  
127 W. FAIRBANKS AVE., STE. 438  
WINTER PARK, FL 32789



DATE: 7.21.11  
DWN BY: JLA  
CHK BY: HFN  
SCALE: NTS

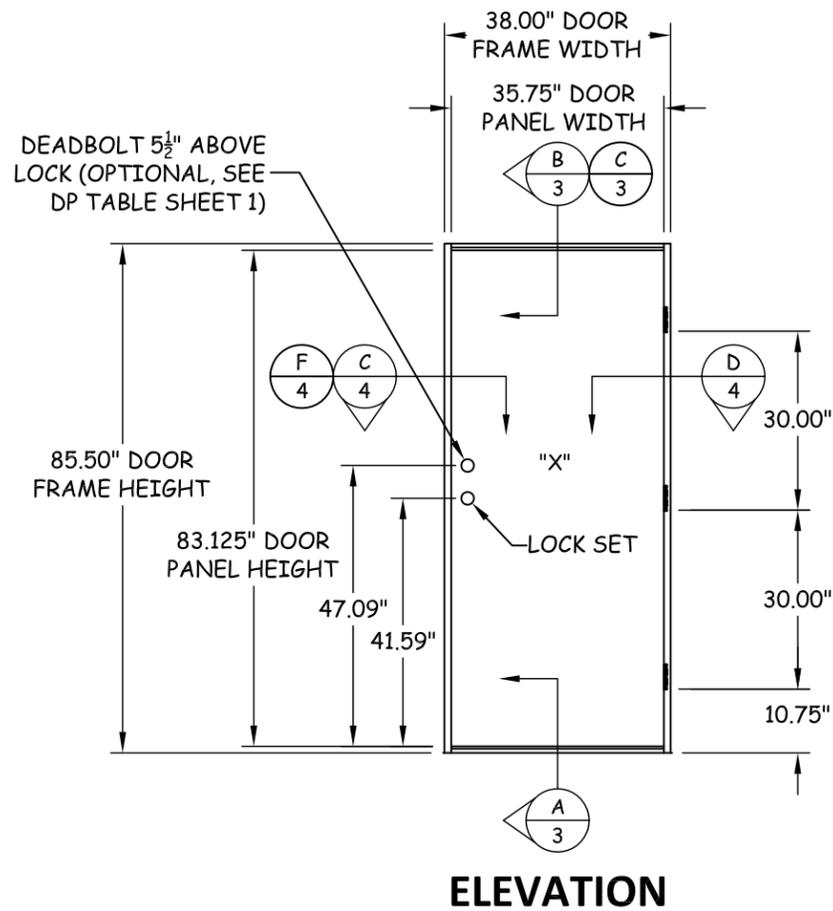
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SHEET: **1 OF 5**

9-14-11

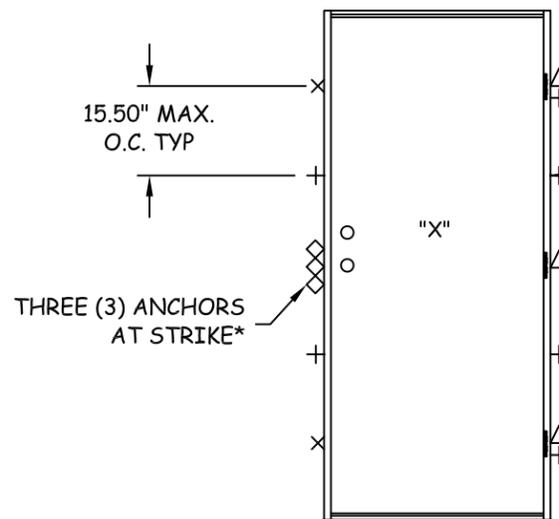
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**ELEVATION**



**ANCHOR LAYOUT**

- LEGEND:**
- × ANCHOR THROUGH INNER FRAME
  - ◇ ANCHOR THROUGH STRIKE PLATE (WHERE APPLICABLE)
  - + ANCHOR THROUGH OUTER FRAME
  - △ ANCHOR THROUGH HINGE

**NOTE:**  
**FOR WOOD & STEEL SUBSTRATES:**  
 MINIMUM OF SEVEN (7) TOTAL ANCHORS REQUIRED PER JAMB. NO ANCHORS AT HEAD OR SILL.  
**FOR CONCRETE/MASONRY SUBSTRATES:**  
 MINIMUM OF SIX (6) TOTAL ANCHORS REQUIRED AT LOCK JAMB & SEVEN (7) ANCHORS AT HINGE JAMB. NO ANCHORS AT HEAD OR SILL.  
 WHEN DEAD BOLT IS USED TWO (2) ADDITIONAL ANCHORS ARE REQUIRED AT DEAD BOLT STRIKE PLATE.  
 SEE SHEET 4 FOR SPECIFIC ANCHOR LOCATIONS.

\*FOR MASONRY/CONCRETE INSTALLATIONS USE ONLY TWO (2) ANCHORS THROUGH STRIKE PLATE



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 ELKHART LAKE WI 53020  
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**TITLE:** SERIES 95EV FLUSH STEEL OUTSWING DOOR ELEVATION & ANCHOR LAYOUT  
**PREPARED BY:** CERTWORKS, LLC  
 127 W. FAIRBANKS AVE., STE. 438  
 WINTER PARK, FL 32789  
 (407) 644-6957 FX: (407) 644-2366

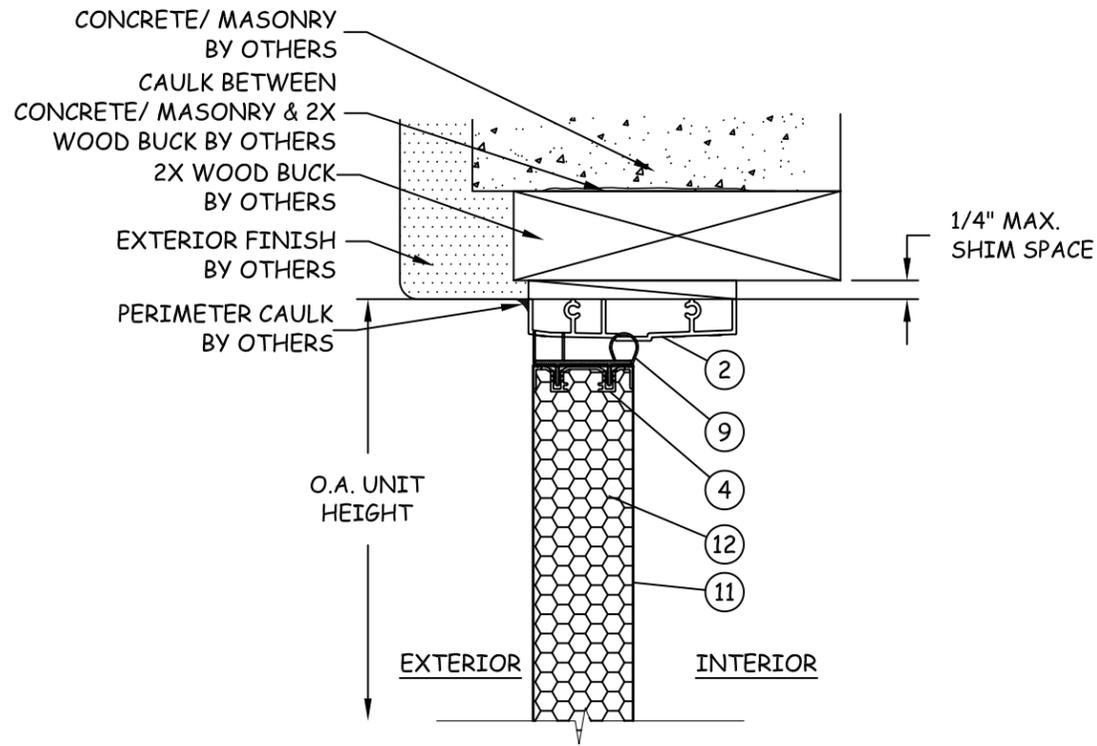
REVISIONS		BY	DATE
NO.	DESCRIPTION		

ALEXIS SPYROU  
 TEXAS P.E. NO. 102957  
 127 W. FAIRBANKS AVE., STE. 438  
 WINTER PARK, FL 32789

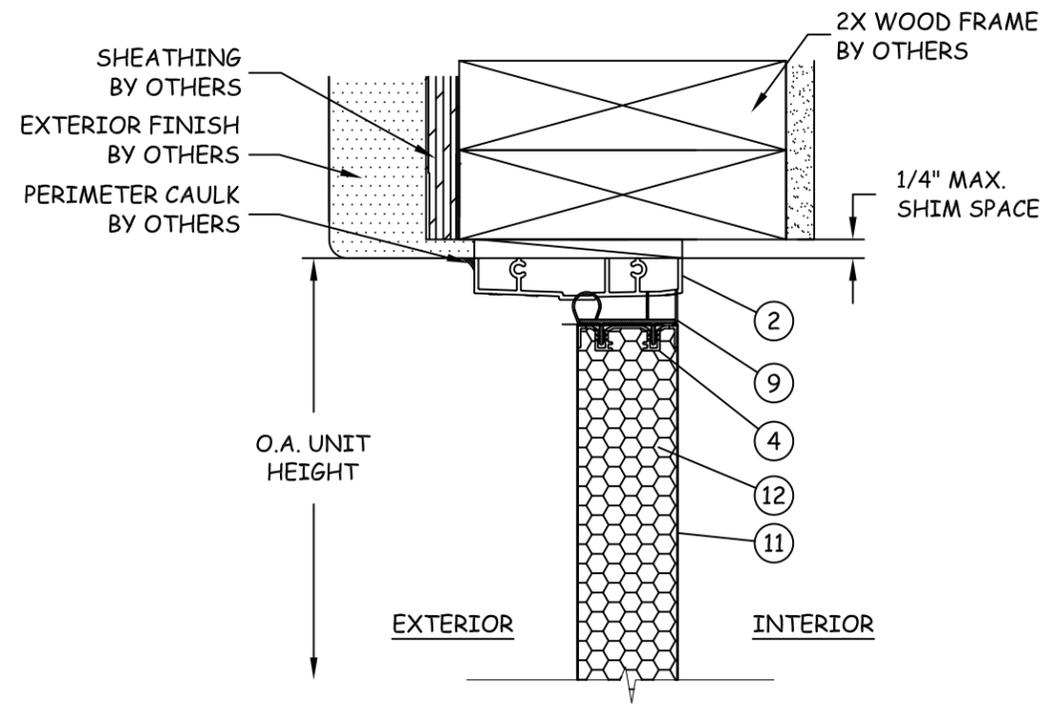
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DWG #:	<b>PC0004</b>						
SHEET:	<b>2 OF 5</b>						

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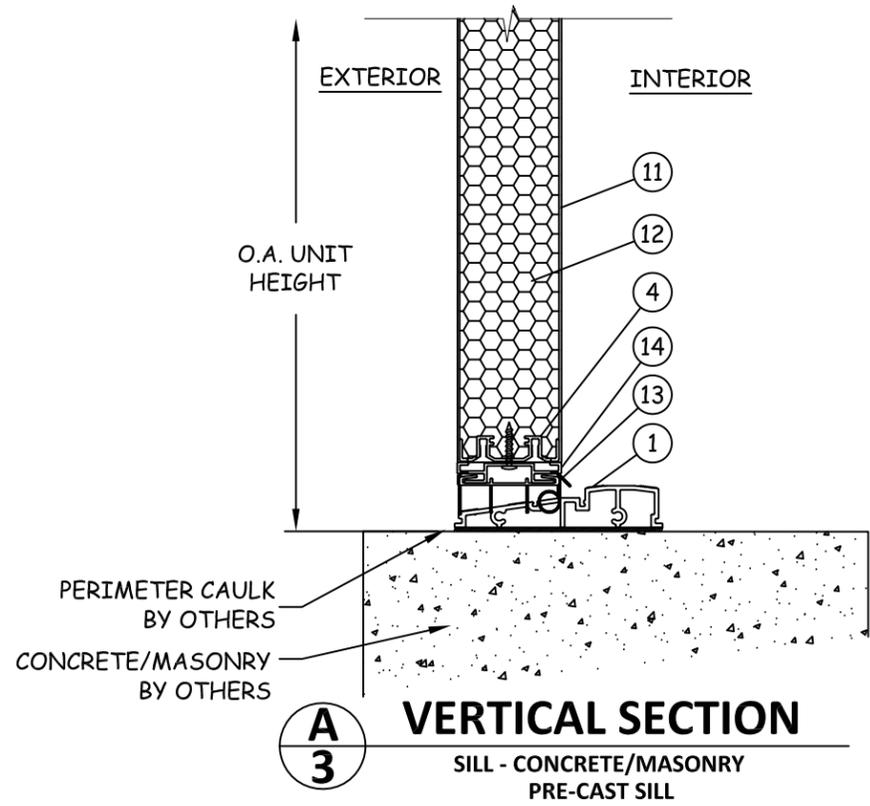
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**B**  
**3** VERTICAL SECTION  
HEAD - 2X WOOD BUCK



**C**  
**3** VERTICAL SECTION  
HEAD - 2X WOOD FRAME



**A**  
**3** VERTICAL SECTION  
SILL - CONCRETE/MASONRY  
PRE-CAST SILL



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TITLE: SERIES 95EV FLUSH  
STEEL OUTSWINGING DOOR  
VERTICAL  
SECTIONS

PREPARED BY:  
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127 W. FAIRBANKS AVE., STE. 438  
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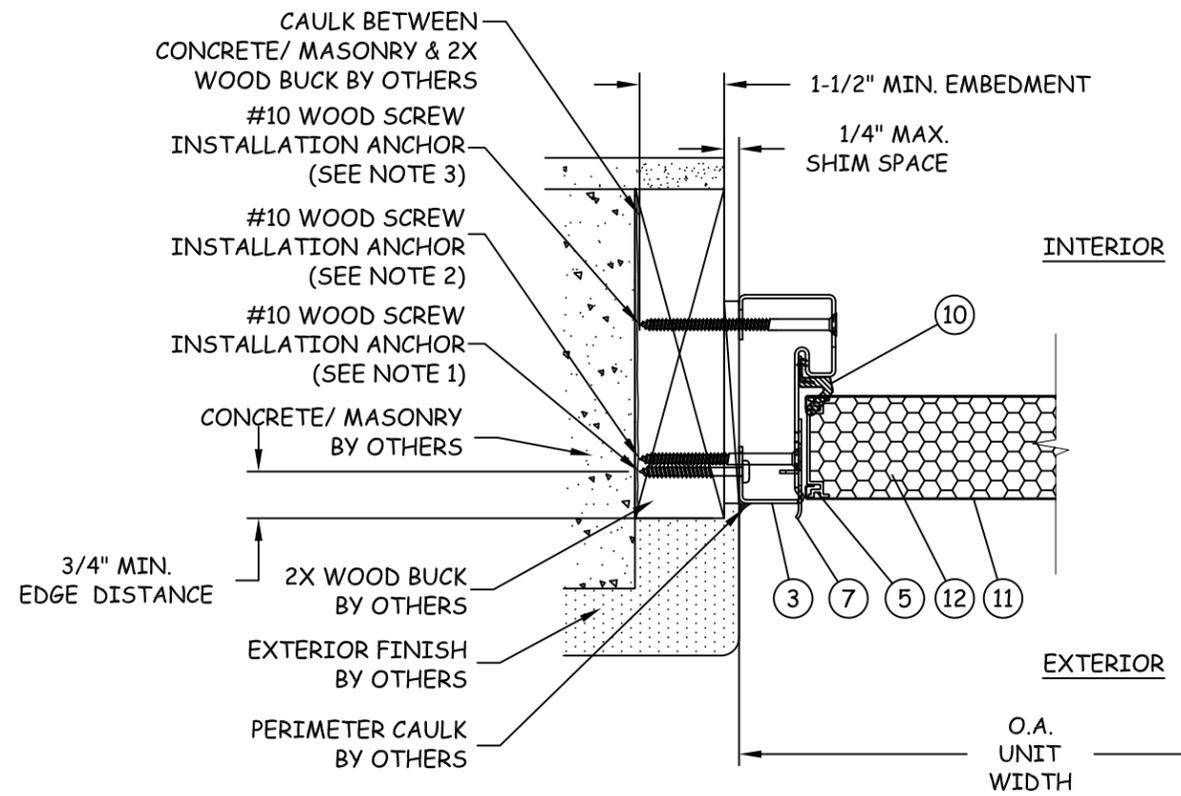
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CHK BY: HFN  
SCALE: NTS

DWG #: PC0004

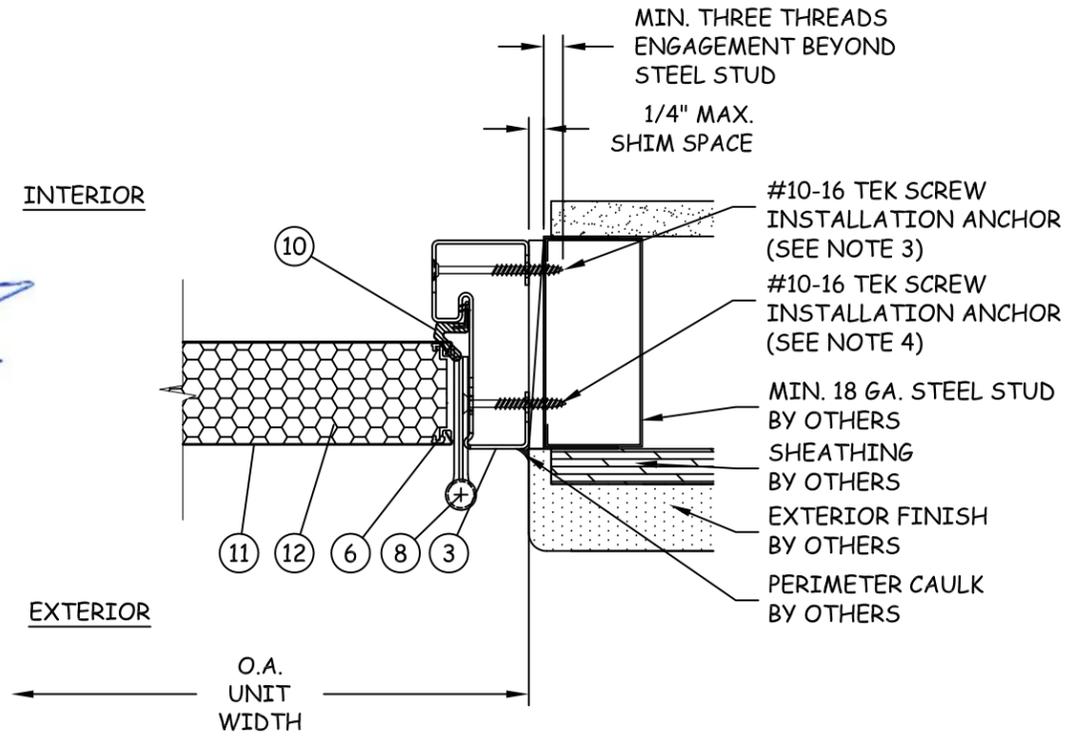
SHEET: 3 OF 5

TITLE: SERIES 95EV FLUSH STEEL OUTSWING DOOR HORIZONTAL SECTIONS

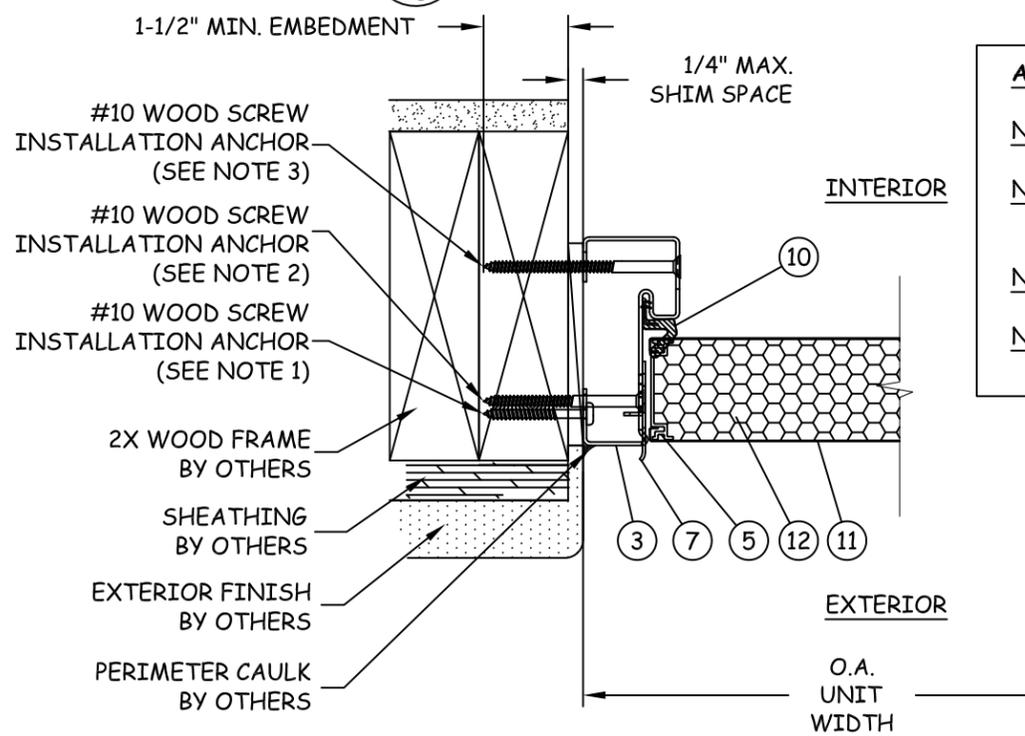
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**D**  
**4**  
**HORIZONTAL SECTION**  
 JAMB - 2X WOOD BUCK, TYP.

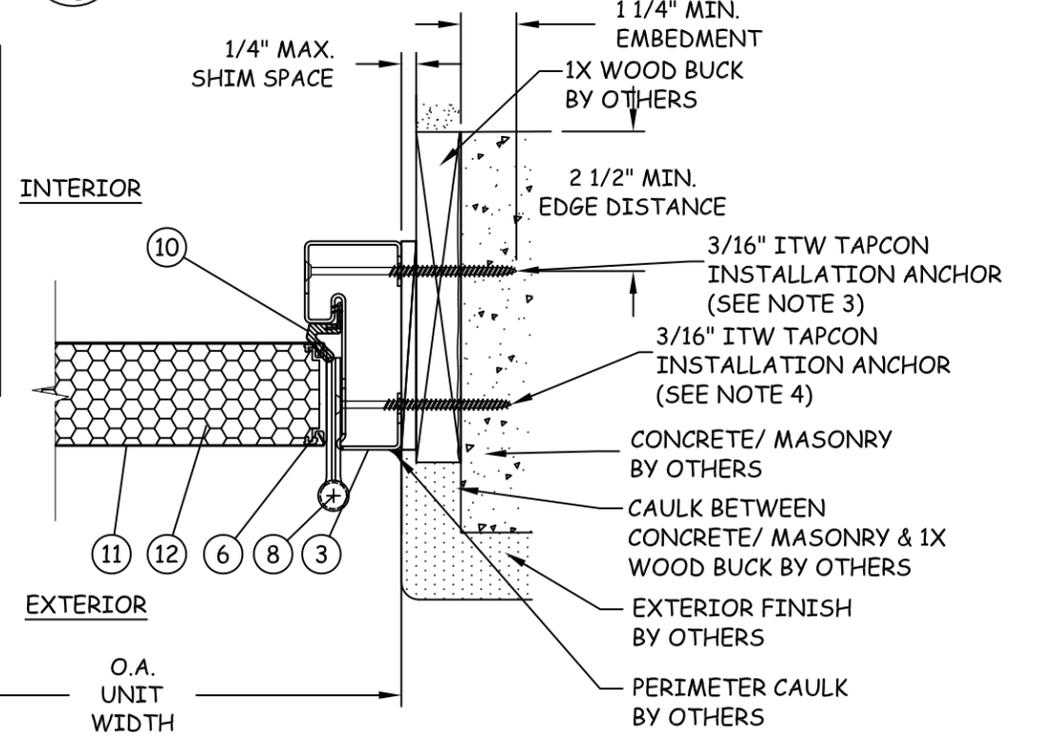


**E**  
**4**  
**HORIZONTAL SECTION**  
 JAMB - STEEL STUD, TYP.



**F**  
**4**  
**HORIZONTAL SECTION**  
 JAMB - 2X WOOD FRAME, TYP.

**ANCHOR NOTES:**  
 NOTE 1: ANCHOR THROUGH INNER FRAME  
 NOTE 2: ANCHOR THROUGH STRIKE PLATE (WHERE APPLICABLE)  
 NOTE 3: ANCHOR THROUGH OUTER FRAME  
 NOTE 4: ANCHOR THROUGH HINGE



**G**  
**4**  
**HORIZONTAL SECTION**  
 JAMB - MASONRY/CONCRETE, TYP.

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 SHEET: **4 OF 5**

## BILL OF MATERIALS

ITEM NO.	DESCRIPTION	PARTS NUMBERS	MATERIAL	MANUFACTURER
1	FRAME SILL	1647	6063-T5	MODERN DOOR
2	FRAME HEAD	1554	6063-T5	MODERN DOOR
3	FRAME JAMB	1539	STEEL	MODERN DOOR
4	HEAD & SILL RAIL	1838-1A	6063-T5	MODERN DOOR
5	STRIKE RAIL	1839	6063-T5	MODERN DOOR
6	HINGE RAIL	1840-B	6063-T5	MODERN DOOR
7	STRIKE PLATE	---	STEEL	MODERN DOOR
8	4" BUTT HINGE	---	STEEL	MODERN DOOR
9	HEAD SWEEP	---	PVC-ALCRYN	MODERN DOOR
10	WEATHERSTRIPPING	---	FOAM/Q-LON	SCHLEGEL
11	DOOR SKIN	---	0.015" STEEL	MODERN DOOR
12	PANEL CORE	---	POLYURETHANE	MODERN DOOR
13	SILL SWEEP	---	PVC-ALCRYN	MODERN DOOR
14	SWEEP ADAPTOR	---	6063-T5	MODERN DOOR

# PLYCO

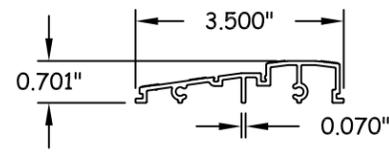
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TITLE: SERIES 95EV FLUSH  
STEEL OUTSWING DOOR  
COMPONENTS  
& BILL OF MATERIALS

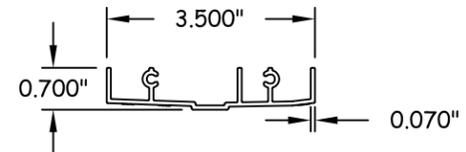
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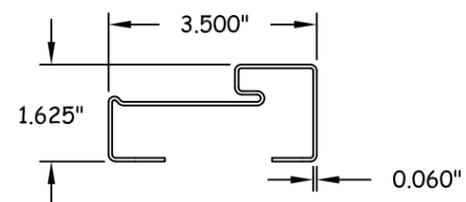
① FRAME SILL  
ALUMINUM 6063-T5



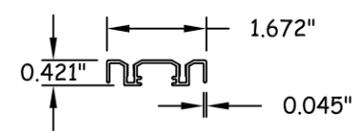
② FRAME HEAD  
ALUMINUM 6063-T5



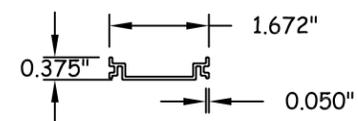
③ FRAME JAMB  
16 GA. STEEL



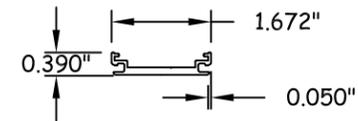
④ HEAD & SILL RAIL  
ALUMINUM 6063-T5



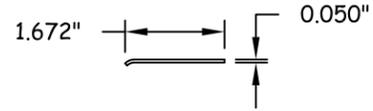
⑤ STRIKE RAIL  
ALUMINUM 6063-T5



⑥ HINGE RAIL  
ALUMINUM 6063-T5



⑦ STRIKE PLATE  
18 GA. STEEL



⑧ 4" BUTT HINGE  
STEEL



⑨ HEAD SWEEP  
PVC-ALCRYN



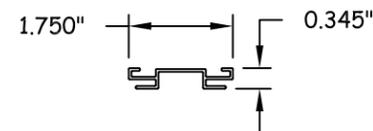
⑩ WEATHERSTRIPPING  
FOAM FILLED Q-LON



⑬ SILL SWEEP  
PVC-ALCRYN



⑭ SWEEP ADAPTOR  
ALUMINUM 6063-T5



9-14-11

DATE:	7.21.11	DWN BY:	JLA	CHK BY:	HFN	SCALE:	NTS
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DWG #: **PCO004**

SHEET: **5 OF 5**

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