

EASTERN ARCHITECTURAL SYSTEM

SERIES 5000 FRENCH DOOR

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED, EVALUATED AND DESIGNED TO THE DESIGN PRESSURE(S) STATED HEREIN IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
 - 1.1. PERFORMANCE STANDARDS USED IN TESTING, NON-HVHZ LOCATIONS:
 - 1.1.1. AAMA/WDMA/CSA 101/I.S.2/A440-11
 - 1.1.2. ASTM E1886-05
 - 1.1.3. ASTM E1996-09
 - 1.1.4. AAMA 506-08
 - 1.2. PERFORMANCE STANDARDS USED IN TESTING, HVHZ AND NON-HVHZ LOCATIONS:
 - 1.2.1. TAS 201-1994
 - 1.2.2. TAS 202-1994
 - 1.2.3. TAS 203-1994
2. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT NO. CTLA NO. 3018WA AND CTLA NO. 3018WD AND ASSOCIATED LABORATORY DRAWINGS BY CERTIFIED TESTING LABORATORIES.
3. THIS PRODUCT EVALUATION DOCUMENT CAN BE USED IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
4. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE / MASONRY AND 2X FRAMING FRAMING SUBSTRATES AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
5. 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 LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
6. WHEN INSTALLED IN LOCATIONS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST, THIS PRODUCT REQUIRES OPENING PROTECTION IN ACCORDANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE USING AN APPROVED IMPACT PROTECTION DEVICE.
7. SITE CONDITIONS NOT COVERED IN THIS PRODUCT EVALUATION DOCUMENT ARE SUBJECT TO ADDITIONAL ENGINEERING ANALYSIS BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
8. MATERIALS
 - 8.1. FRAME MATERIAL: 6063-T6 ALUMINUM
 - 8.2. 8.2. LAMINATED GLAZING INTERLAYER: KURARAY AMERICA, INC. SENTRYGLAS PER LATEST APPROVED MIAMI-DADE NOTICE OF ACCEPTANCE (NOA)
 - 8.3. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-04E01 AND EXCEEDS THE DESIGN PRESSURES BELOW.
9. DESIGNATION "X" STANDS FOR OPERABLE PANEL.
10. INTERIOR AND EXTERIOR FINISHING AND SEALING ARE FOR ILLUSTRATIVE PURPOSES ONLY. THESE DRAWINGS CERTIFY THE DOOR INSTALLATION ONLY. WATER PROOFING OF THE INSTALLED DOOR IS NOT PART OF THIS INSTALLATION CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER AND/OR THE INSTALLER.

INSTALLATION NOTES:

1. PRODUCT ANCHORS SHALL BE AS DESIGNATED AND LOCATED AS SHOWN IN THIS PRODUCT EVALUATION DOCUMENT. ANCHOR EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING.
2. SEE *INSTALLATION ANCHOR SCHEDULE* ON SHEET 2 FOR TYPE AND GRADE OF ANCHOR, AND/OR MANUFACTURER'S ANCHOR SPECIFICATIONS, INCLUDING MINIMUM NOMINAL SIZE, MINIMUM EMBEDMENT INTO SUBSTRATE AND MINIMUM EDGE DISTANCES.
 - 2.1. EDGE DISTANCES SHALL BE MEASURED FROM CENTERLINE OF ANCHOR TO EDGE OF STRUCTURAL SUBSTRATE EITHER TO THE INTERIOR OR EXTERIOR OF THE FENESTRATION PRODUCT.
 - 2.2. MINIMUM EMBEDMENT SHALL BE BASED ON PENETRATION INTO MAIN WIND FORCE RESISTING SYSTEM SUBSTRATE.
 - 2.3. ALL INSTALLATION ANCHORS SHALL BE MADE OF A CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
3. WOOD BUCKS SHALL HAVE BEEN PRESERVATIVE TREATED OR SHALL BE OF A DURABLE SPECIES AS DEFINED IN THE CURRENT EDITION OF THE FLORIDA BUILDING CODE.
4. DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM FRAMING SHALL HAVE BEEN PROTECTED AS DEFINED IN THE CURRENT EDITION OF THE FLORIDA BUILDING CODE.
5. SEE SHEETS 3, 4 AND 5 SPECIFIC ANCHOR INSTALLATION DETAILS.
6. ONE (1) INSTALLATION ANCHORS ARE REQUIRED AT EACH ANCHOR LOCATION SHOWN ON SHEETS 3 AND 4.
7. ANCHOR QUANTITIES AND SPACING / EMBEDMENT AND EDGE DISTANCE
 - 7.1. THE NUMBER OF INSTALLATION ANCHORS IS BASED ON THE MAXIMUM END DISTANCE (ED) AND THE MAXIMUM ON CENTER (O.C.) SPACING PLACEMENT OF ANCHORS IN ACCORDANCE WITH ELEVATIONS ON SHEET 3.
 - 7.2. END DISTANCES AND O.C. SPACINGS LESS THAN THAT SHOWN IN THE ELEVATIONS ON SHEET 3 ARE ACCEPTABLE.
 - 7.3. FOR DOOR SIZES SMALLER THAN THOSE SHOWN, ANCHOR QUANTITIES CAN BE REDUCED WHILE MAINTAINING EDGE DISTANCE AND O.C. SPACING REQUIREMENTS.
 - 7.4. ANCHOR QUANTITIES AND SPACINGS SHOWN ARE BASED ON THE LOWER OF ANCHOR SPACING USED IN TESTING OR REQUIRED BY LOADING AT DESIGN PRESSURE.
 - 7.5. SEE EMBEDMENT AND EDGE DISTANCE DESCRIPTION ON SHEET 2.
8. MAXIMUM ALLOWABLE SHIM THICKNESS IS 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF WOOD COMPOSITE, HIGH DENSITY PLASTIC OR SIMILAR LOAD BEARING MATERIAL.
9. FOR CONCRETE BLOCK APPLICATIONS DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS.
10. 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 IN THE *INSTALLATION ANCHOR SCHEDULE* ON SHEET 2.

PERFORMANCE RATING					
MAXIMUM DOOR SIZE	GLAZING DETAIL (SEE SHEET 6)	SILL RISER	DESIGN PRESSURE (PSF)	IMPACT RATING	
				NON-HVHZ	HVHZ
39" x 97-1/16" FRAME 35-3/4" x 94-1/32" PANEL	A OR B	WITH ITEM NO. 6 SILL RISER	+/-100	WIND ZONE 4 MISSILE LEVEL D	LARGE MISSILE IMPACT
		WITHOUT ITEM NO. 6 SILL RISER	+30/-100		

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES, INSTALLATION NOTES, TABLE OF CONTENTS
2	ANCHOR SCHEDULE - EMBEDMENT AND EDGE DISTANCE
3	SERIES 5000 ELEVATION AND ANCHOR LAYOUT
4	VERTICAL CROSS SECTIONS
5	HORIZONTAL CROSS SECTIONS
6	GLAZING DETAIL AND GLAZING NOTES /BILL OR MATERIALS

PROJECT # 417-1109		RJA	RJA	BY
		12/11/17	2/23/16	DATE
	UPDATE TO THE CURRENT EDITION FBC	UPDATE INTERLAY NOA REFERENCE	DESCRIPTION	

EASTERN ARCHITECTURAL SYSTEMS
10030 BAVARIA ROAD
FORT MYERS, FL 33913

SERIES 5000 FRENCH DOOR
GENERAL NOTES, INSTALLATION NOTES & TABLE OF CONTENTS

PREPARED BY: RJA

SCALE: N.T.S.

DATE: 11/05/14

DRAWING NO: EAS0003

SHEET: 1 OF 6

PFC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FLORIDA 32752
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@pfc-corp.com
FBPE C.A. NO. 259535

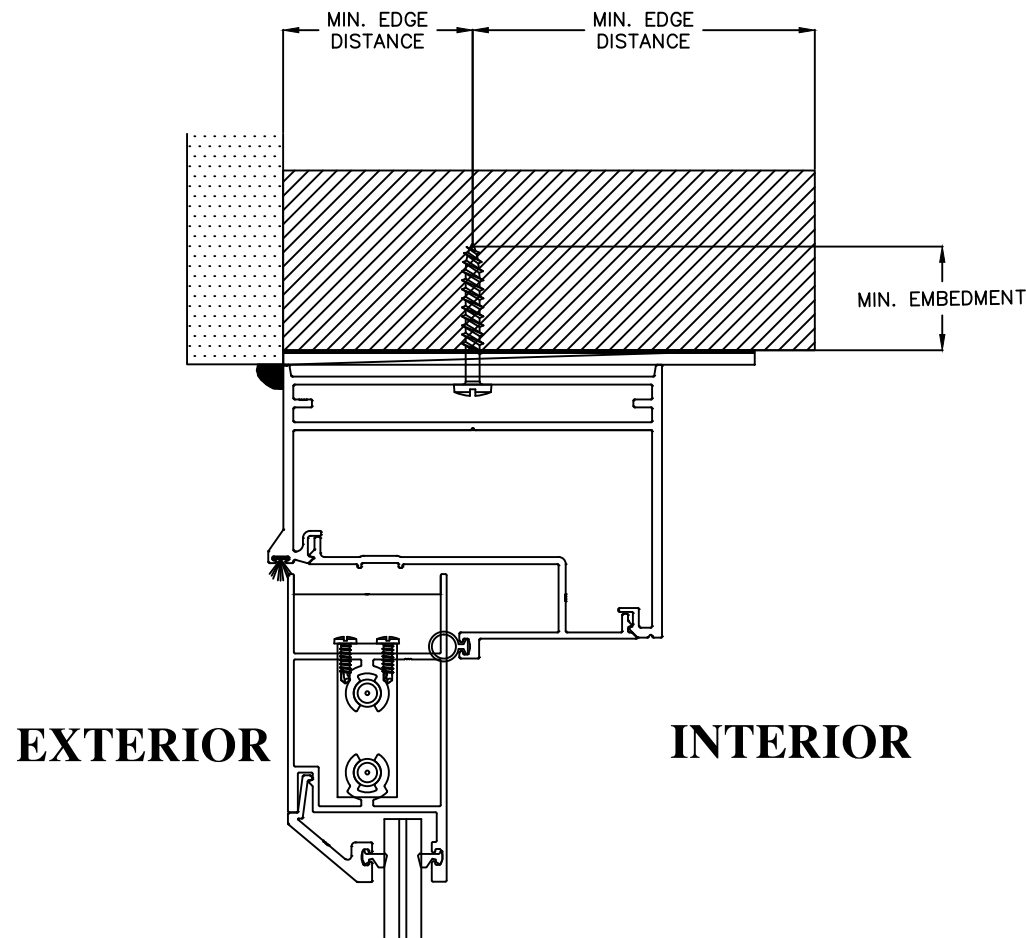
Robert J. Amoruso, P.E.
Florida P.E. No. 49752

INSTALLATION ANCHOR SCHEDULE

FASTENER HEAD TYPE	FASTENER SIZE	SUBSTRATE (4)	FRAME COMPONENT	MANUFACTURER AND/OR SPECIFICATION	MIN. EMBEDMENT (IN)	MIN. EDGE DISTANCE (IN)	ANCHOR CAPACITIES BASED ON
FLAT HEAD - SILL PAN HEAD - HEAD AND JAMBS	1/4"	CONCRETE	HEAD, SILL AND JAMBS	ITW TAPCONS (1)	1-1/2	1-1/2	MIN. 2500 PSI CONCRETE
		MASONRY (BLOCK/CMU)	JAMBS ONLY	ITW TAPCONS (1)	1	2	STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT, DENSITY > 117 PCF
	No. 14	WOOD	HEAD, SILL AND JAMBS	ANSI B18.6.1 (WOOD SCREW) (2)	1-1/2	1	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.55 (HVHZ) OR 0.42 (NON-HVHZ).
	No. 14 or 1/4"	STEEL STUD	HEAD, SILL AND JAMBS	ASME B18.6.4 (TAPPING SCREW) (3)	3 THREADS BEYOND INTERIOR FACE OF SUPPORTING SUBSTRATE	3/8	MIN. WALL THICK. = 0.0451" (18 GA.) MIN. FTY = 33 KSI MIN. FTU = 45 ksi
No. 14 or 1/4"	STEEL OR ALUMINUM	HEAD, SILL AND JAMBS	ASME B18.6.4 (TAPPING SCREW) (3) 304 SERIES STAINLESS STEEL	3/8		MIN. WALL THICK. = 0.07" MIN. FTY = 16 KSI MIN. FTU = 22 ksi	

- NOTES:**
- 1) WHEN ITW TAPCONS ARE USED FOR CONCRETE/MASONRY INSTALLATION, THEY SHALL BE THE ADVANCED THREADFORM TECHNOLOGY TYPE.
 - 2) FOR WOOD SCREW INSTALLATION INTO WOOD SUBSTRATE; IF SPLITTING IS A CONCERN, DRILL 0.149" PILOT HOLE (DRILL SIZE 25).
 - 3) SEE ASME B18.6.4 APPENDIX FOR MINIMUM HOLE SIZE BASED ON WALL THICKNESS AND SCREW THREAD TYPE.
 - 4) FOR CONCRETE/CMU SUBSTRATES, 1X WOOD BUCK IS OPTIONAL.

**FRAME ANCHORAGE
MINIMUM EMBEDMENT
AND EDGE DISTANCE
THROUGH-FRAME INSTALLATION**



PROJECT # 417-1109

EASTERN ARCHITECTURAL SYSTEMS
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FORT MYERS, FL 33913

SERIES 5000 FRENCH DOOR
ANCHOR SCHEDULE - EMBEDMENT & EDGE DISTANCE

DATE: 11/05/14
DRAWING NO.: EAS0003
SHEET: 2 OF 6

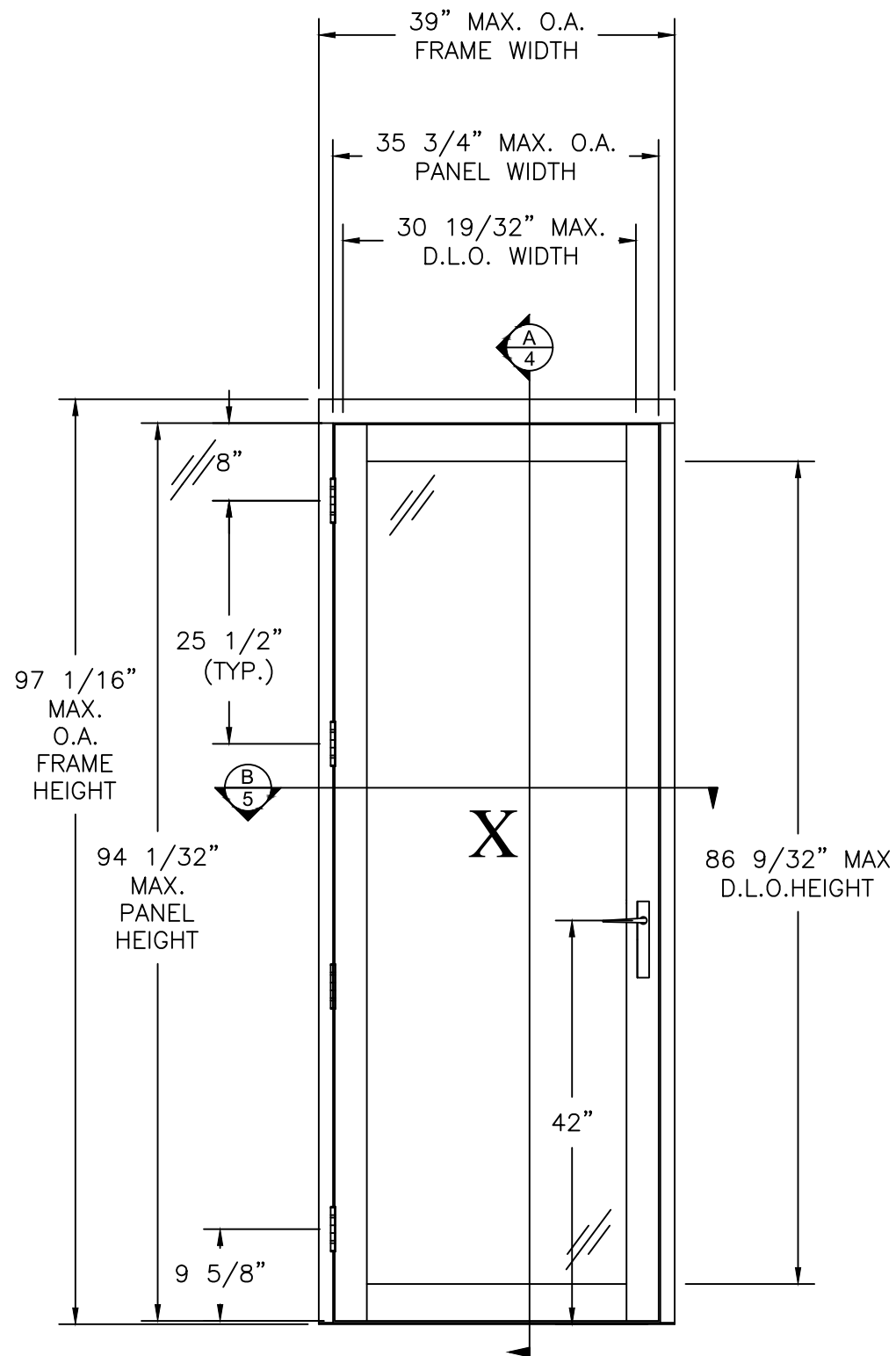
DRAWN BY: RJA
SCALE: N.T.S.
REV: B

UPDATE TO THE CURRENT EDITION FBC
UPDATE INTERLAY NOA REFERENCE

RJA RJA BY
12/11/17 2/23/16 DATE

DESCRIPTION

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

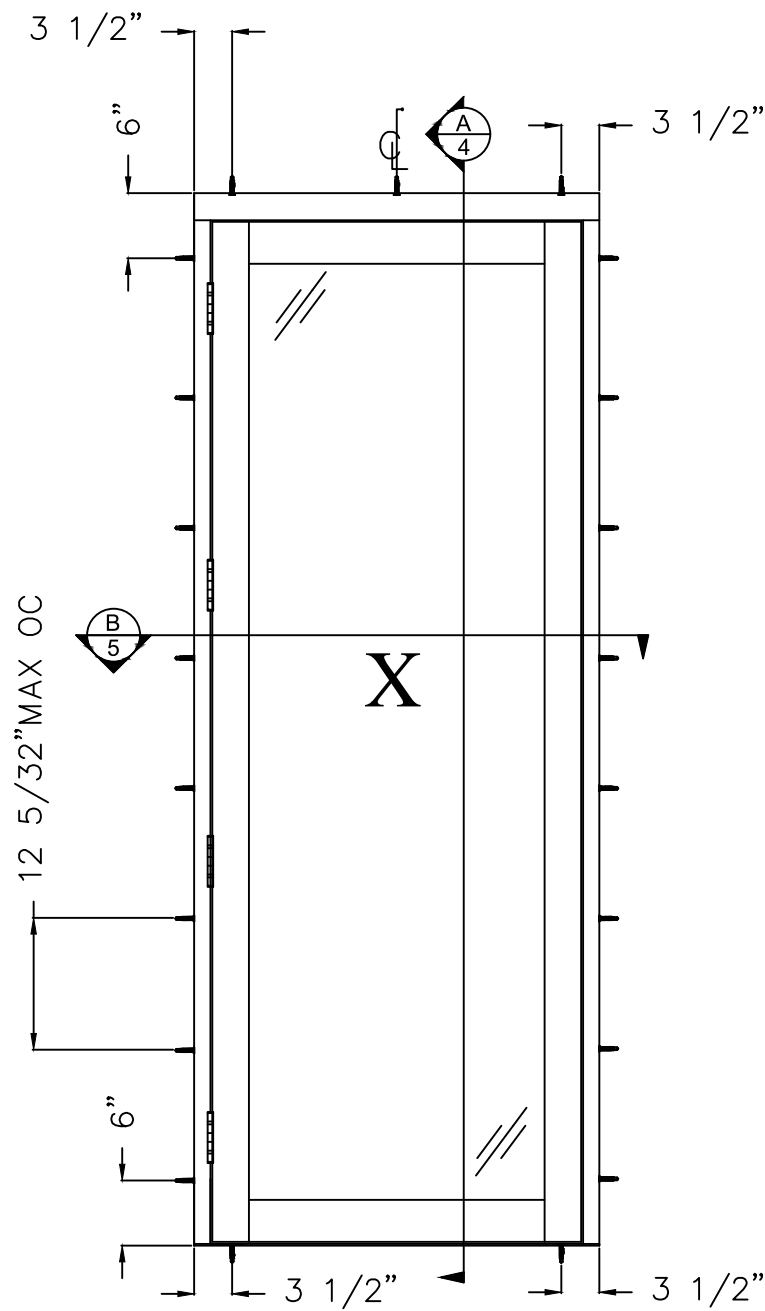


**SERIES 5000 FRENCH DOOR
EXTERIOR LAYOUT**

EXTERIOR VIEW

HINGE LOCATION NOTES:

1. 94-1/32" PANEL HEIGHT - 4 HINGES SPACED AS SHOWN IN ELEVATION ABOVE REQUIRED.
2. 90" AND LESS PANEL HEIGHT - 3 HINGES SPACED AT 8" FROM PANEL TOP, 6-5/8" FROM PANEL BOTTOM AND CENTERED BETWEEN TOP AND BOTTOM HINGES APPROVED BASED ON TESTING.

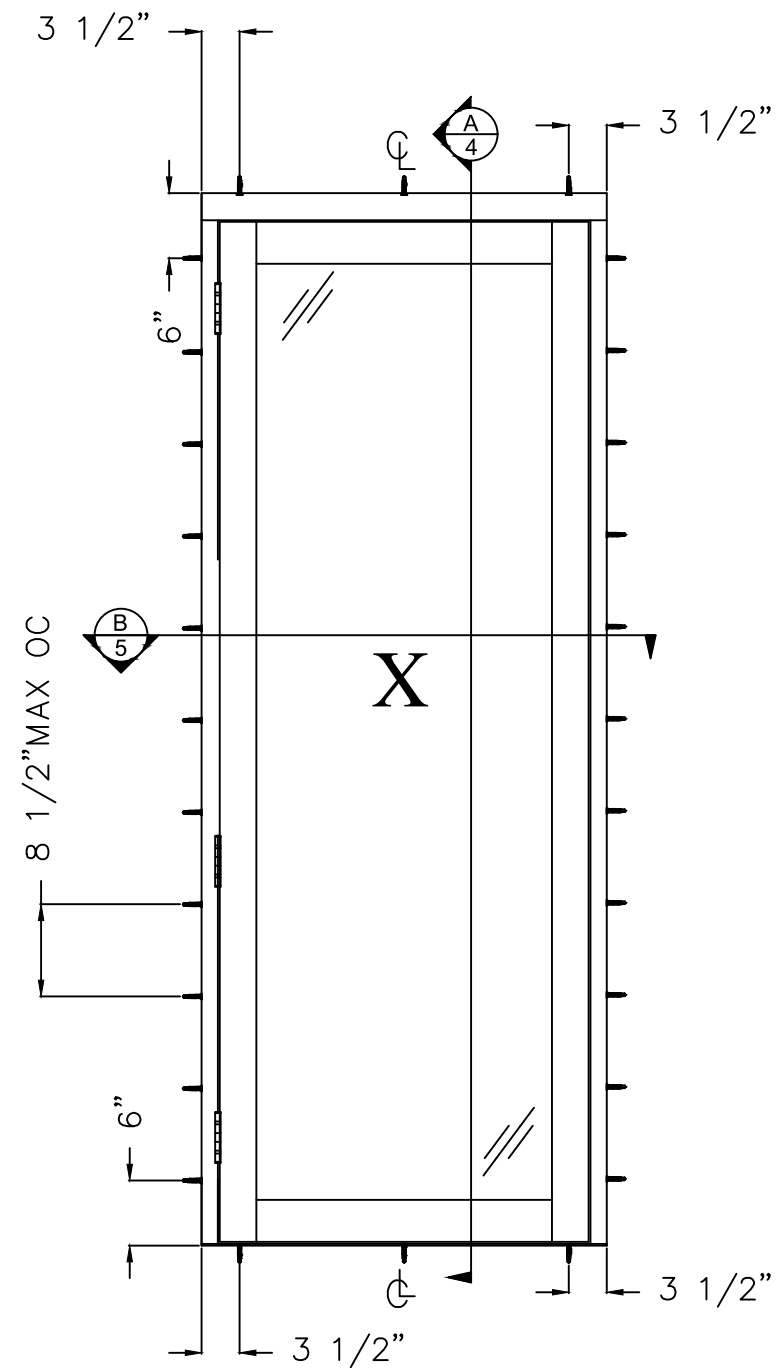


**SERIES 5000 FRENCH DOOR
ANCHOR ELEVATION**

CONCRETE (HEAD, SILL & JAMBS), CMU (JAMBS)
ONLY OR WOOD SUBSTRATES (HEAD, SILL & JAMBS)

(SEE ANCHOR SCHEDULE ON SHEET 2 FOR
SUBSTRATE REQUIREMENTS)

EXTERIOR VIEW



**SERIES 5000 FRENCH DOOR
ANCHOR ELEVATION**

ALUMINUM AND STEEL SUBSTRATES (SEE ANCHOR
SCHEDULE ON SHEET 2 FOR SUBSTRATE REQUIREMENTS)

EXTERIOR VIEW

Eastern Architectural Systems
10030 BAVARIA ROAD
FORT MYERS, FL 33913

Series 5000 French Door
Elevation and Anchor Layout

PREPARED BY: RJA
SCALE: N.T.S.
REV: B

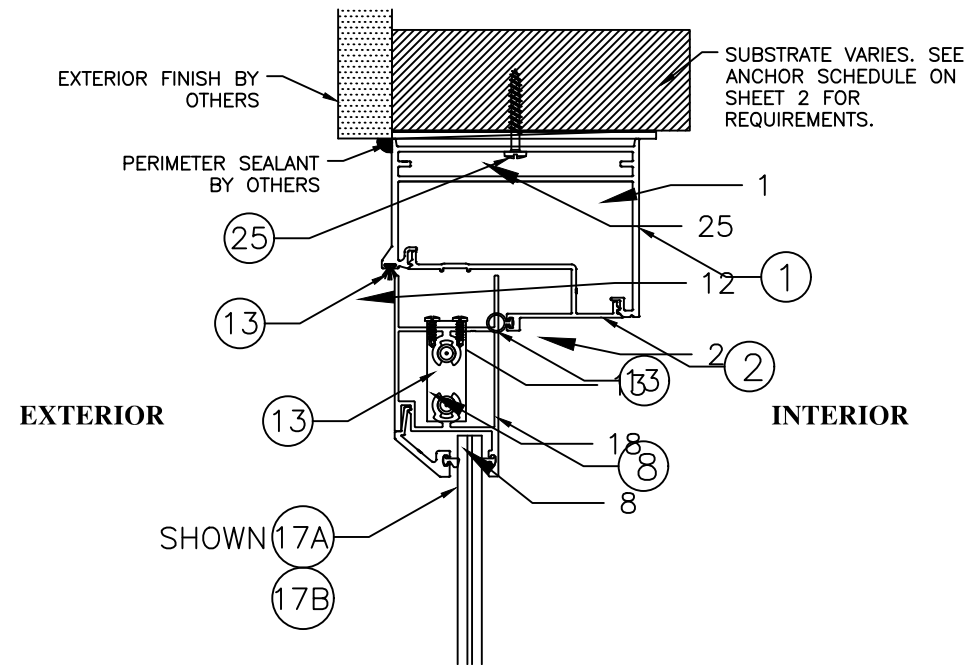
DATE: 11/05/14
DRAWING NO: EAS0003
SHEET: 3 OF 6

PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FLORIDA 32752
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com

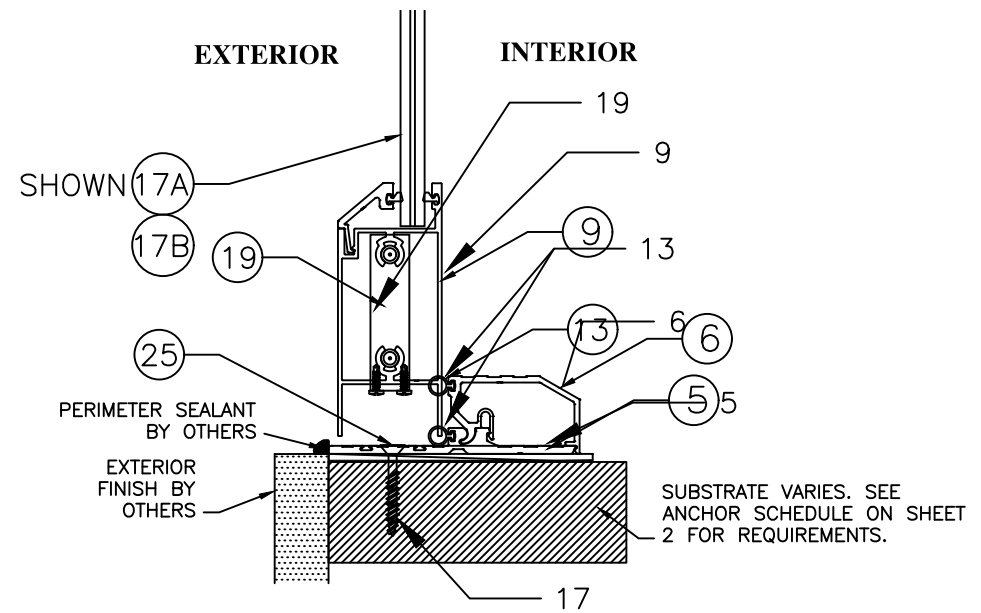
Robert J. Amoruso, P.E.
Florida P.E. No. 49752

PROJECT # 417-1109

REV	DESCRIPTION	DATE	BY
B	UPDATE TO THE CURRENT EDITION FBC	12/11/17	RJA
A	UPDATE INTERLAY NOA REFERENCE	2/23/16	RJA



A VERTICAL CROSS SECTION - HEAD
 4 WITH 7/16" NOMINAL IGU (ITEM NO. 17A) SHOWN



A VERTICAL CROSS SECTION - SILL
 4 WITH 7/16" NOMINAL IGU (ITEM NO. 17A) SHOWN

PROJECT # 417-1109

		RJA	BY
	12/11/17	RJA	DATE
UPDATE TO THE CURRENT EDITION FBC		RJA	
UPDATE INTERLAY NOA REFERENCE	2/23/16	RJA	
		REV	DESCRIPTION
B			
A			

EASTERN ARCHITECTURAL SYSTEMS
 10030 BAVARIA ROAD
 FORT MYERS, FL 33913

SERIES 5000 FRENCH DOOR
 VERTICAL CROSS SECTIONS

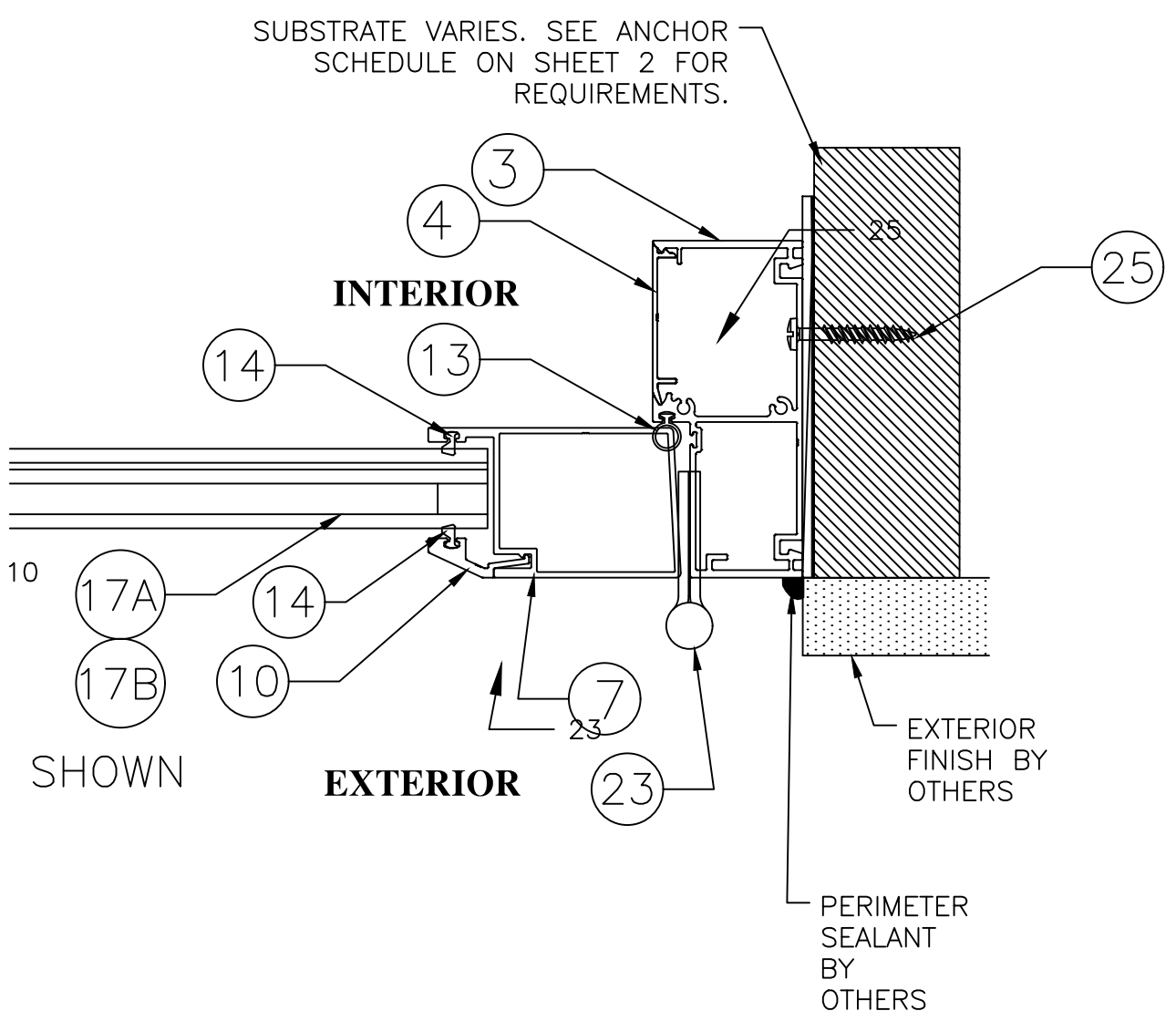
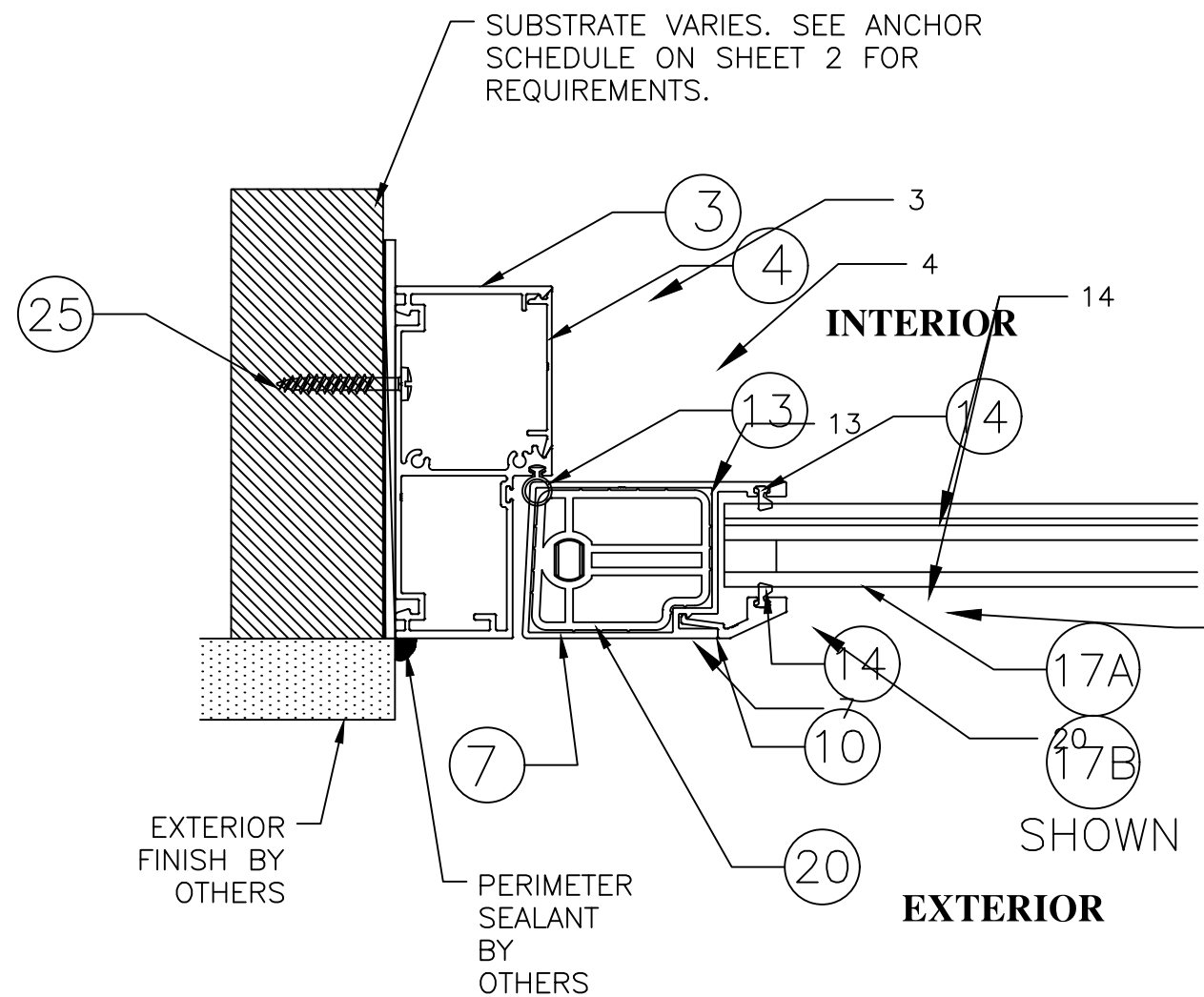
DATE: 11/05/14
 DRAWING NO: EAS0003
 SHEET: 4 OF 6

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

Eastern
 ALUMINUM AND VINYL
 WINDOW, DOOR AND DOORS

PTC
 PTC PRODUCT DESIGN GROUP, LLC
 PO BOX 520775
 LONGWOOD, FLORIDA 32752
 FBPE C.A. NO. 25935
 Phone: 321.690.1788
 Fax: 321.690.1789
 Email: info@ptc-corp.com

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



B HORIZONTAL CROSS SECTION - JAMBS
5 WITH 1" NOMINAL LAMINATED IGU (ITEM NO. 17B) SHOWN

PROJECT # 417-1109			
		RJA	BY
	UPDATE TO THE CURRENT EDITION FBC	12/11/17	DATE
B			
	UPDATE INTERLAY NOA REFERENCE	2/23/16	DATE
A			
REV	DESCRIPTION		

EASTERN ARCHITECTURAL SYSTEMS
 10030 BAVARIA ROAD
 FORT MYERS, FL 33913

Eastern
 ALUMINUM AND VINYL
 WINDOW, DOOR AND DOORS

SERIES 5000 FRENCH DOOR
 HORIZONTAL CROSS SECTIONS

DATE: 11/05/14
 DRAWING NO: EAS0003
 SHEET: 5 OF 6

PREPARED BY: RJA
 SCALE: N.T.S.
 REV: B

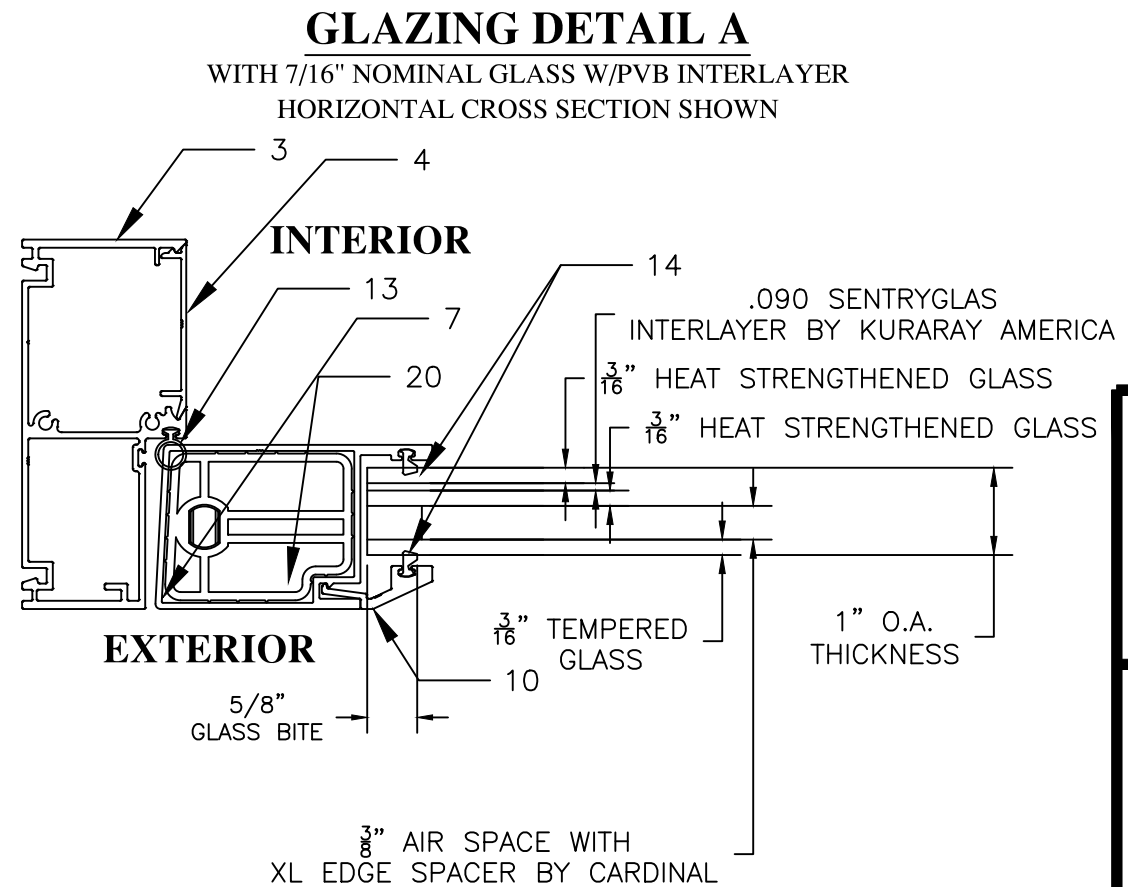
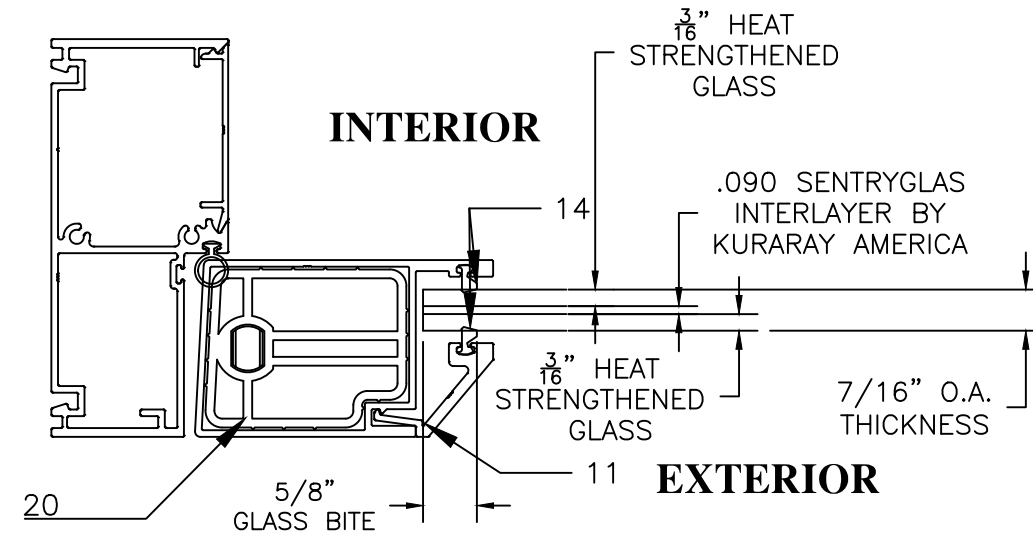
PTC PRODUCT DESIGN GROUP, LLC
 PO BOX 520775
 LONGWOOD, FLORIDA 32752
 FBPE C.A. NO. 25935
 Phone: 321.690.1788
 Fax: 321.690.1789
 Email: info@ptc-corp.com

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 Florida P.E. No. 49752

BILL OF MATERIALS				
ITEM	PART NUMBER	DESCRIPTION	MATERIAL	MANUFACTURER
1	52839	FRAME HEAD	ALUMINUM 6063-T6	SAPA
2	52842	FRAME HEAD INSERT	ALUMINUM 6063-T6	SAPA
3	52838	JAMB	ALUMINUM 6063-T6	SAPA
4	52840	JAMB COVER	ALUMINUM 6063-T6	SAPA
5	52844	SILL	ALUMINUM 6063-T6	SAPA
6	52843	SILL ADD-ON	ALUMINUM 6063-T6	SAPA
7	54351	HINGE STILE	ALUMINUM 6063-T6	SAPA
8	53419	TOP RAIL	ALUMINUM 6063-T6	SAPA
9	53420	4" BOTTOM RAIL	ALUMINUM 6063-T6	SAPA
10	52853	1" GLAZING BEAD	ALUMINUM 6063-T6	SAPA
11	52854	1/2" GLAZING BEAD	ALUMINUM 6063-T6	SAPA
12	30442	.187 X .330 VINYL WEATHER STRIP	VINYL/RUBBER	TEAM PLASTICS
13	30602	LARGE BULB	VINYL/RUBBER	TEAM PLASTICS
14	30601	GLAZING WEDGE	VINYL/RUBBER	TEAM PLASTICS
15		3/8" X 2 1/2" THREADED ROD	STEEL	
16		6 X 1/2" PANHEAD TEK SCREW	STEEL	
17A		LAMINATED GLAZING - SEE GLAZING DETAIL A ON SHEET 6		
17B		LAMINATED IGU GLAZING - SEE GLAZING DETAIL B ON SHEET 6		
18		TOP CORNER KEY MADE BY EMS	ALUMINUM 6063-T6	
19		BOTTOM CORNER KEY MADE BY EMS	ALUMINUM 6063-T6	
20		SHOOT BOLT GUIDE MADE BY EMS	PLASTIC	
21		3/8" NUT	STEEL	
22		HINGE PLATE	ALUMINUM 6063-T6	REGENT
23		4" X 4 1/2" S.S. BUTT HINGE	STAINLESS STEEL	REGENT
24		INTERLOCK MULTIPOINT HARDWARE W/ SHOOT BOLTS	STEEL	INTERLOCK
25		INSTALLATION ANCHOR - SEE SCHEDULE ON SHEET 2		

GLAZING DETAIL NOTES:

1. ALL SETTING BLOCKS AND GASKET MATERIALS SHALL BE IN COMPLIANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE.
2. SETTING BLOCKS
 - 2.1. ARE NOT REQUIRED BY THE CURRENT EDITION OF THE FLORIDA BUILDING CODE BECAUSE MAXIMUM GLASS WIDTH IS LESS THAN THREE (3) FEET.
 - 2.2. IF USED, SETTING BLOCKS SHALL BE NEOPRENE 70-90 SHORE A DUROMETER HARDNESS OF APPROVED EQUAL.
3. GASKET MATERIALS (ITEM NO. 14)
 - 3.1. SHALL BE EDPM WITH A MINIMUM 60 SHORE A DUROMETER.
 - 3.2. SHALL COMPLY WITH ONE OF THE FOLLOWING STANDARDS AS APPLICABLE:
 - 3.2.1. ASTM C864
 - 3.2.2. ASTM C509
 - 3.2.3. ASTM C1115
 - 3.2.4. ASTM E2203



PROJECT # 417-1109

	RJA	RJA	BY
	12/11/17	2/23/16	DATE
	UPDATE TO THE CURRENT EDITION FBC	UPDATE INTERLAY NOA REFERENCE	DESCRIPTION
B	A	REV	

EASTERN ARCHITECTURAL SYSTEMS
10030 BAVARIA ROAD
FORT MYERS, FL 33913

Eastern
ALUMINUM AND VINYL
IMPACT WINDOWS AND DOORS

PREPARED BY: RJA
DATE: 11/05/14
DRAWING NO.: EAS0003
SCALE: N.T.S.
SHEET: 6 OF 6

GLAZING DETAILS/NOTES AND BILL OF MATERIALS

PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FLORIDA 32752
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com
FBPE C.A. NO. 259535

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