

ECO GLASS LLC

SERIES S-6300 TILT & TURN TERRACE INSWING DOOR (XX & X)

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN EVALUATED TO COMPLY WITH THE CURRENT PROVISIONS OF THE FLORIDA BUILDING CODE (FBC) EXCLUDING THE HIGH VELOCITY HURRICANE ZONES (HVHZ) AND IS BASED ON TESTING CONDUCTED TO AAMA/WDMA/CSA 101/I.S.2/A440-08 DOCUMENTED IN TEST REPORT NO. AI-04118-E1 BY AIR-INS INC. (AN UL COMPANY).
2. 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.
3. 1X BUCK OVER MASONRY AND/OR CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF THE INSTALLATION METHODS DEVIATE FROM THESE APPROVED DETAILS THIS WOULD REQUIRE FURTHER INVESTIGATION BY A LICENSED OR REGISTERED DESIGN PROFESSIONAL.
5. IN AREAS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST, USE OF AN IMPACT PROTECTIVE SYSTEM COMPLYING WITH THE FBC REQUIREMENTS FOR WINDBORNE DEBRIS REGIONS SHALL BE REQUIRED:
6. MATERIALS:

6.1. FRAME: RIGID VINYL
7. GLAZING:

7.1. INSULATING GLASS UNIT

7.1.1. DETAIL A: 22.2 mm (0.87") O.A. COMPRISED OF 4MM (5/32") TEMPERED, AIR GAP 14.2MM (0.56").

7.1.1. OVERALL (O.A.) THICKNESS AND AIR GAP CAN VARY BASED ON SPACER USED AND WILL NOT AFFECT GLAZING STRENGTH. GLASS THICKNESS AND HEAT TREATMENT CANNOT VARY EXCEPT AS ALLOWED IN 7.2 BELOW.

7.2. FOR PRODUCTS SMALLER THAN THE TESTED SPECIMEN, GLAZING IS PERMITTED TO BE THINNER AND/OR WEAKER THAN THAT SHOWN IN GENERAL NOTE 7.1 IN ACCORDANCE WITH AAMA/WDMA/CSA 101/I.S.2/A440-08, SECTION 6.2.3.4.1.

7.3. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-16.
8. PANEL OPERABILITY DESIGNATIONS:

8.1. X = OPERABLE
9. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DETAILED IN ACCORDANCE WITH THE FBC, RESIDENTIAL AND BUILDING VOLUMES AND WITH FMA/AAMA/WDMA PROTOCOLS. EXTERIOR FINISH, PERIMETER AND JOINT SEALANT IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY AND IS NOT PART OF THIS PRODUCT APPROVAL DOCUMENT.
10. DOUBLE DOOR (XX) TESTED. SINGLE (X) DOOR CONFIGURATION APPROVED. PANEL AND DLO SIZE SHOWN ON SHEET 2 SHALL NOT BE EXCEEDED.

TABLE OF CONTENTS	
SHEET	DESCRIPTION
1	INSTALLATION AND GENERAL NOTES
2	EXTERIOR ELEVATION AND ANCHORAGE
3	INSTALLATION DETAILS A & B
4	VERTICAL SECTION A - THROUGH FRAME INSTALLATION
5	VERTICAL SECTION A - CLIP INSTALLATION
6	HORIZONTAL SECTION C - THROUGH FRAME INSTALLATION
7	HORIZONTAL SECTION C - CLIP INSTALLATION
8	BILL OF MATERIALS & VERTICAL COMPONENT CROSS-SECTION
9	HORIZONTAL COMPONENT CROSS-SECTIONS & CLIP

INSTALLATION NOTES:

1. INSTALL ONE (1) ANCHOR AS INDICATED IN THE SECTION DETAILS ON SHEETS 4 THROUGH 7 AT EACH LOCATION SHOWN IN THE ELEVATION ON SHEET 2.

1.1. LOCATION TOLERANCE IS +/- 1/2".

1.2. FOR WINDOWS SMALLER THAN THAT SHOWN IN SHEET 2 ELEVATION, ANCHOR QUANTITIES CAN BE REDUCED WHILE MAINTAINING THE ANCHOR SPACING AND EDGE DISTANCE SHOWN.
2. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH A LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
3. SEE INSTALLATION ANCHOR SCHEDULE ON THIS SHEET FOR ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE REQUIREMENTS.

3.1. INSTALLATION ANCHORS SHALL BE CORROSION RESISTANT OR HAVE CORROSION RESISTANT COATING.

3.2. SEE INSTALLATION NOTE 4 FOR MINIMUM SUBSTRATE PROPERTIES.
4. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

4.1. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42 (NON-HVHZ).

4.2. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

4.3. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90 MEDIUM WEIGHT WITH COMPRESSIVE STRENGTH OF 1900 psi (DENSITY > 117 PCF).

4.4. STEEL STUD - STRENGTH CONFORMING TO MIN. Fu = 33 KSI AND Ft = 45 KSI. MINIMUM THICKNESS 20 GA.
5. DOUBLE DOOR (XX) CONFIGURATION TESTED AND SHOWN WITH INSTALLATION REQUIREMENTS. FOR SINGLE (X) DOOR, INSTALLATION ANCHOR QUANTITIES SHALL BE REDUCED AT HEAD AND SILL WHILE MAINTAINING ON CENTER (O.A.) SPACING AND EDGE DISTANCE.

PERFORMANCE RATING		
MAXIMUM NOMINAL DOOR FRAME SIZE (IN)	DESIGN PRESSURE RATING (PSF)	IMPACT RATING
84X96 (XX)	40	NONE

INSTALLATION ANCHORAGE SCHEDULE			
SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED. (IN)	MIN. EDGE DIST. (IN)
WOOD (SG = 0.42 MIN.)	NO. 10 PAN HEAD WOOD SCREW, GR. 2 STRENGTH	1 3/8	3/4
CONCRETE (2.5 KSI MIN.)	3/16" HH ITW TAPCON	1 1/2	1 1/8
MASONRY (ASTM C-90 MEDIUM WEIGHT WITH COMPRESSIVE STRENGTH OF 1900 psi (DENSITY > 117 PCF)	3/16" HH ITW TAPCON	1	2
STEEL STUD, 20 GA OR GREATER THICKNESS, MIN. Fu = 33 ksi AND Ft = 45 ksi	NO. 10 PAN HEAD SELF-DRILLING SHEET METAL SCREW (TAPPING SCREW),GR. 2 STRENGTH	FULL THICKNESS OF MEMBER PLUS 3 FULL THREAD LENGTHS PAST INTERIOR	1/2

PROJECT NO. ACE-2025-128

ECO GLASS, LLC
144 HOPE STREET
LONGWOOD, FL 32750

TITLE: SERIES S-6300 TILT & TURN TERRACE INSWING DOOR
INSTALLATION AND GENERAL NOTES

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

DATE: 10/27/20
DRAWING NO: ECOGLASS009
SHEET: 1 OF 9



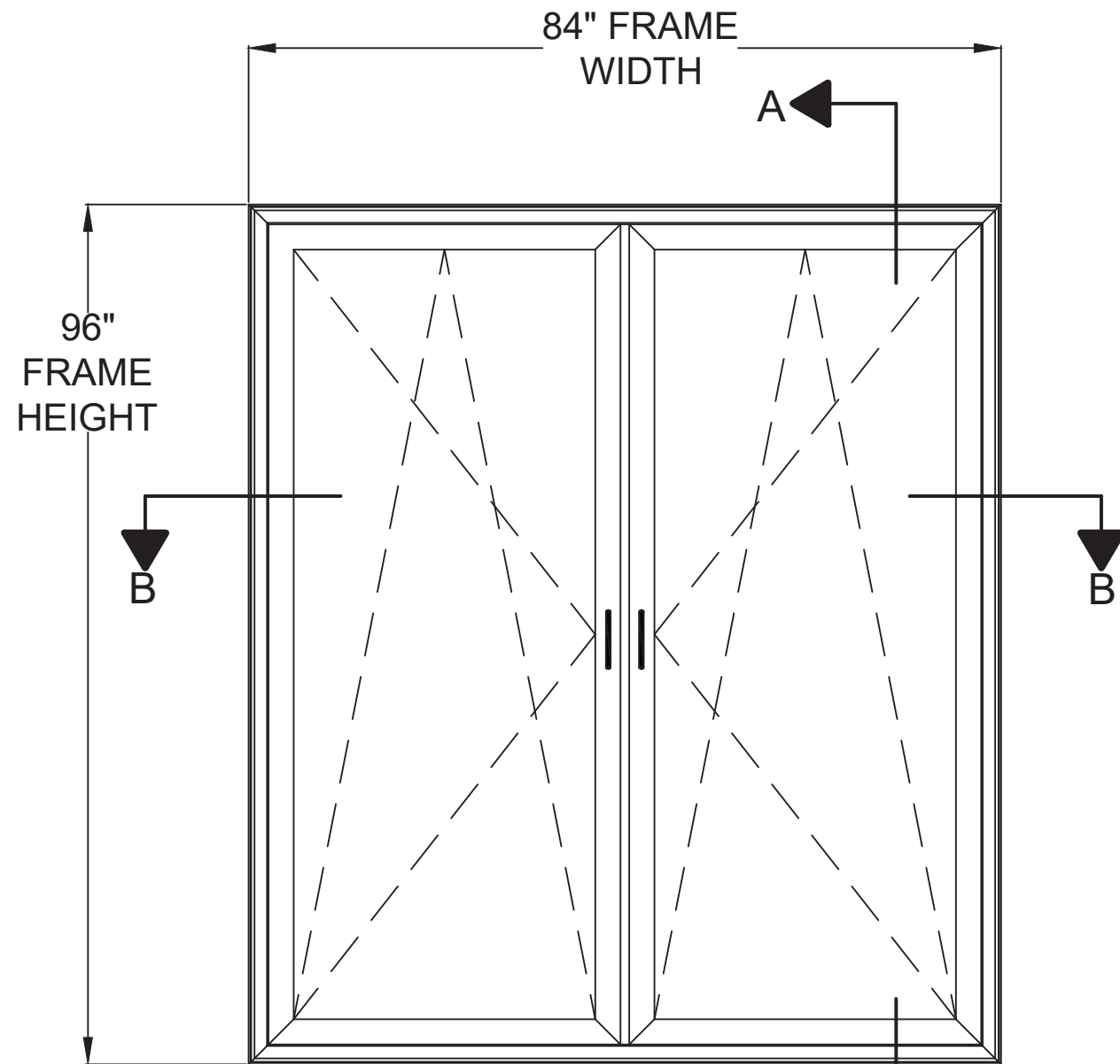
321-207-0507 | info@vk-ecoglass.com

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



Digitally signed by Robert J Amoruso
Date: 2026.08.16 03:58:01 -04'00'

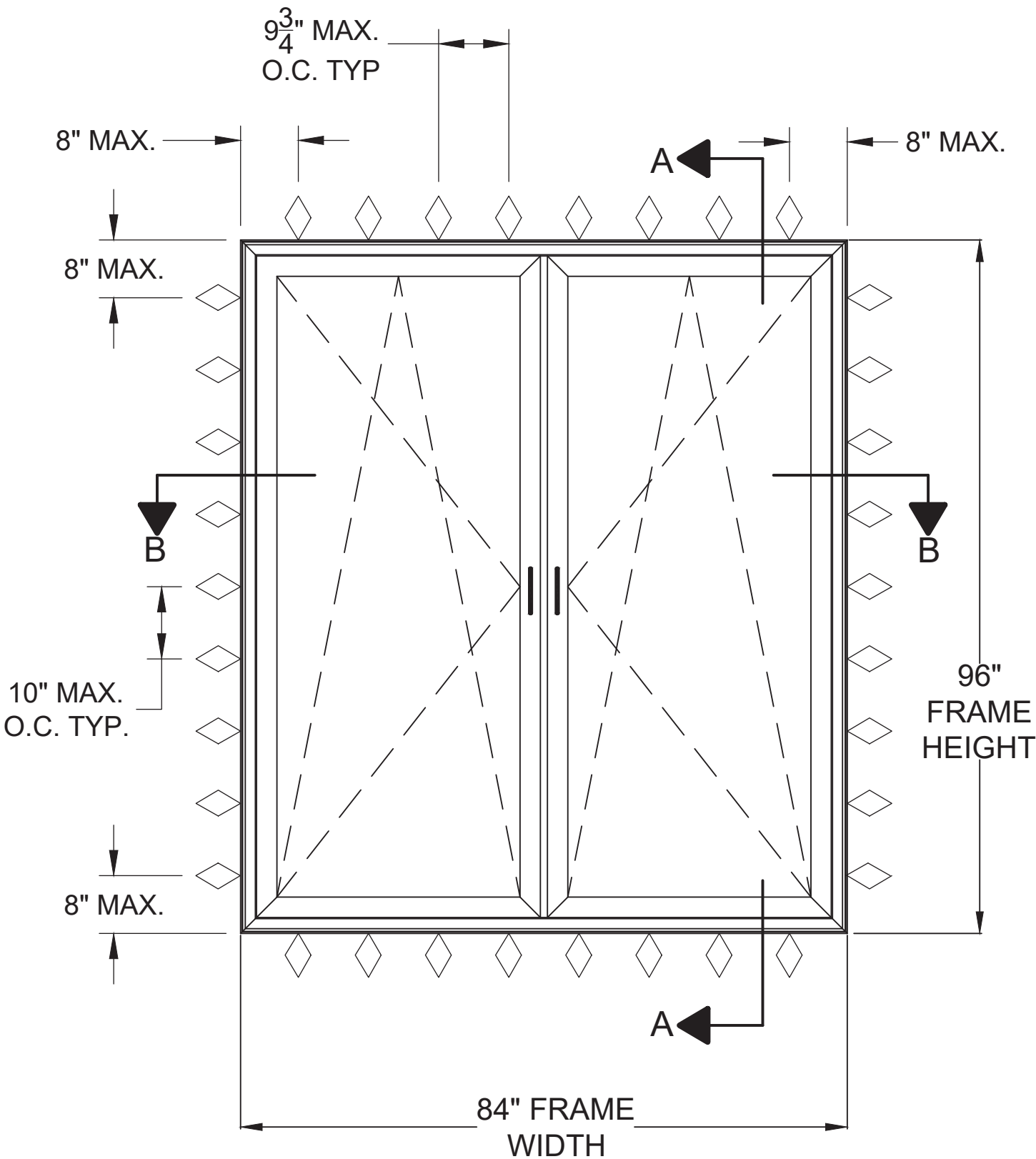
AMORUSO CONSULTING ENG., LLC
FBPE REGISTRATION NO. 38327
226 N NOVA RD, NO. 142
ORMOND BEACH, FL 32174
RJAENGPE@GMAIL.COM



MAXIMUM SIZES	
FRAME	84" X 96" (NOMINAL) 83.94" X 96.06"
PANEL	39.76" X 92.64"
DLO - PANEL	31.65" X 84.57"

**SERIES S-6300 TILT &
TURN TERRACE
INSWING DOOR**

EXTERIOR VIEW



**BLOCK/EQUAL LEG THROUGH
FRAME AND CLIP INSTALLATION**

EXTERIOR VIEW

◇ ANCHOR/FASTENER

PROJECT NO. ACE-2025-128					
				8/16/26	RJA
			UPDATE TO CURRENT EDITION OF FBC		
			DESCRIPTION	DATE	BY
			REV		

ECO GLASS, LLC 144 HOPE STREET LONGWOOD, FL 32750		DATE:	10/27/20
DRAWN BY: RJA		DRAWING NO:	ECOGLOSS009
TITLE: SERIES S-6300 TILT & TURN TERRACE INSWING DOOR EXTERIOR ELEVATION AND ANCHORAGE		SCALE:	N.T.S.
		REV:	---
		SHEET:	2 OF 9



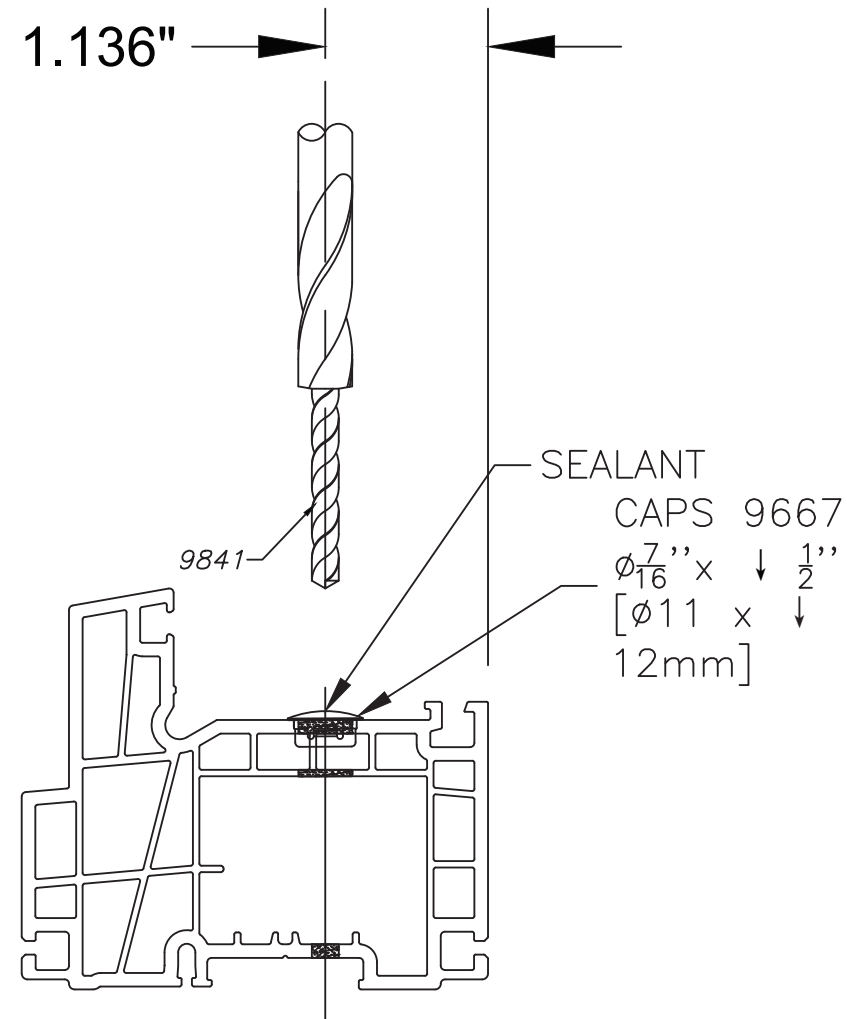
321-207-0507 | info@vk-ecoglass.com

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



Digitally signed
by Robert J
Amoruso
Date: 2026.08.16
03:58:15 -04'00'

AMORUSO CONSULTING ENG., LLC
FBPE REGISTRATION NO. 38327
226 N NOVA RD, NO. 142
ORMOND BEACH, FL 32174
RJAENGPE@GMAIL.COM



THROUGH-FRAME INSTALLATION DETAIL A

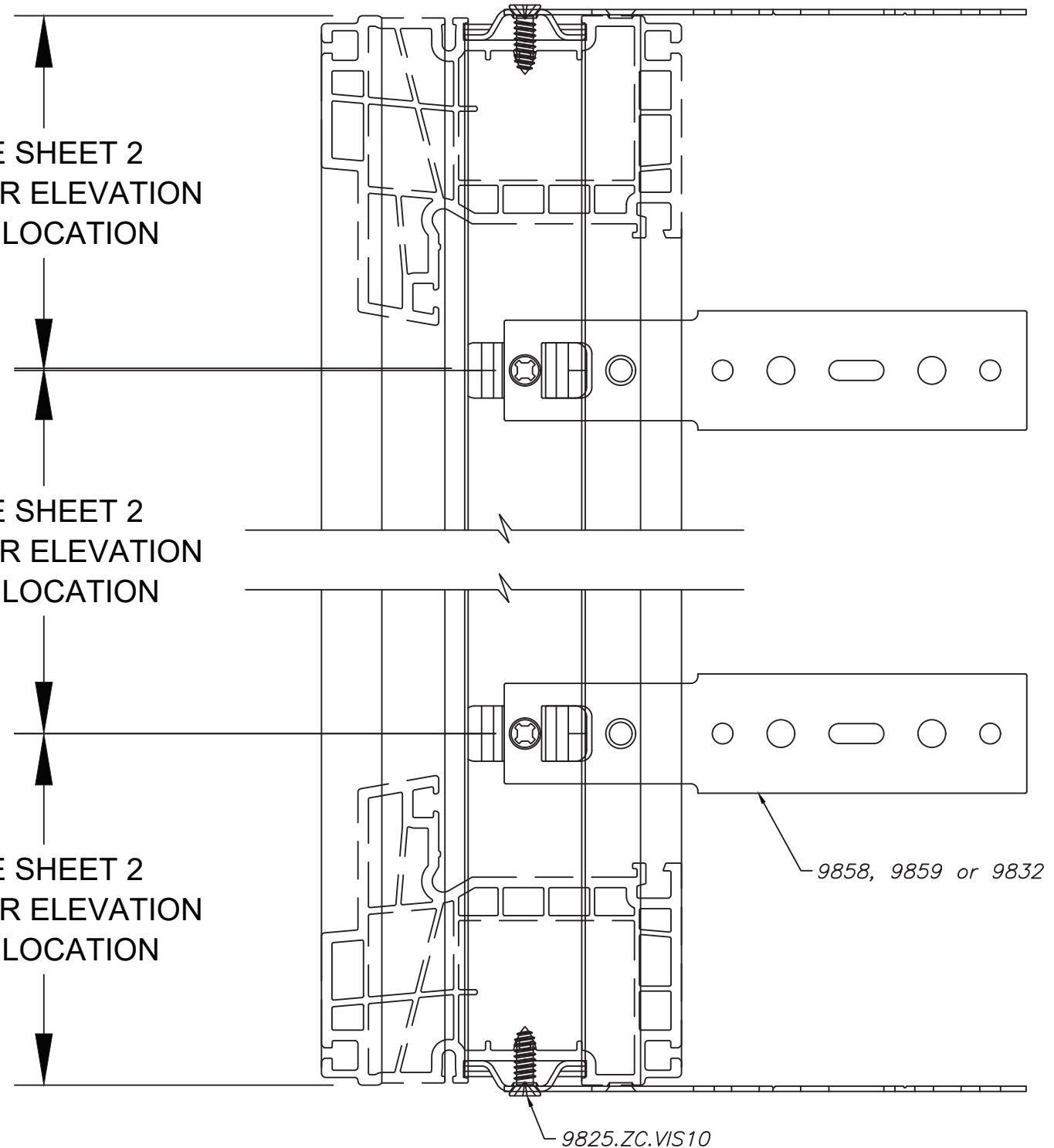
DETAIL A NOTES:

- Cover all installation holes with caps No. 9667.CAPUC.
- Before inserting caps No. 9667.CAPUC on the sill, apply some sealant all around every installation hole then insert caps into holes.

SEE SHEET 2
ANCHOR ELEVATION
FOR LOCATION

SEE SHEET 2
ANCHOR ELEVATION
FOR LOCATION

SEE SHEET 2
ANCHOR ELEVATION
FOR LOCATION



CLIP INSTALLATION DETAIL B

PROJECT NO. ACE-2025-128

ECO GLASS, LLC
 144 HOPE STREET
 LONGWOOD, FL 32750
 TITLE: SERIES S-6300 TILT & TURN TERRACE INSWING DOOR
 INSTALLATION DETAILS A & B

DRAWN BY: RJA
 SCALE: N.T.S.
 DATE: 10/27/20
 DRAWING NO.: ECOGLASS009
 SHEET: 3 OF 9



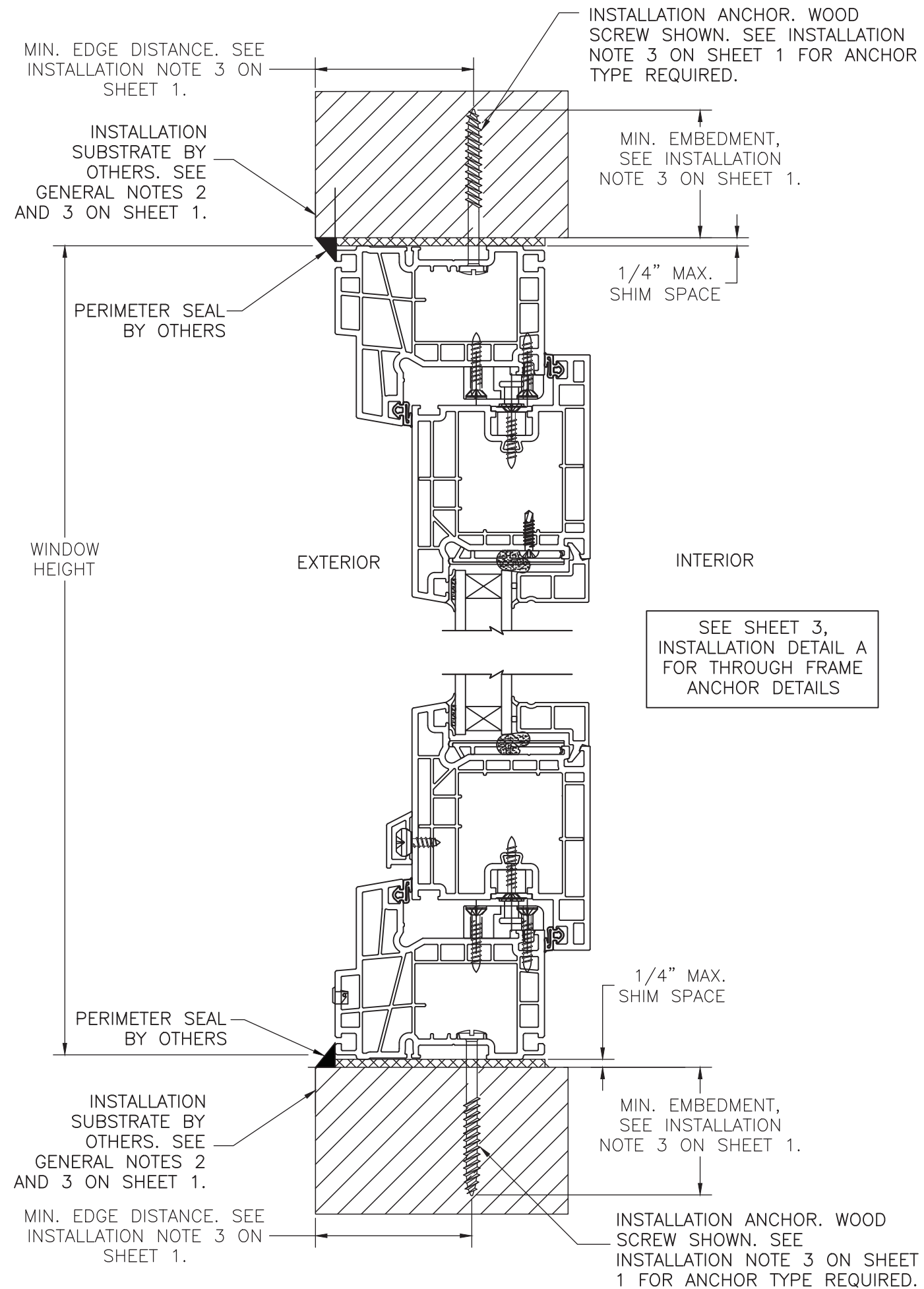
Robert J. Amoruso, P.E.
 Florida P.E. No. 49752



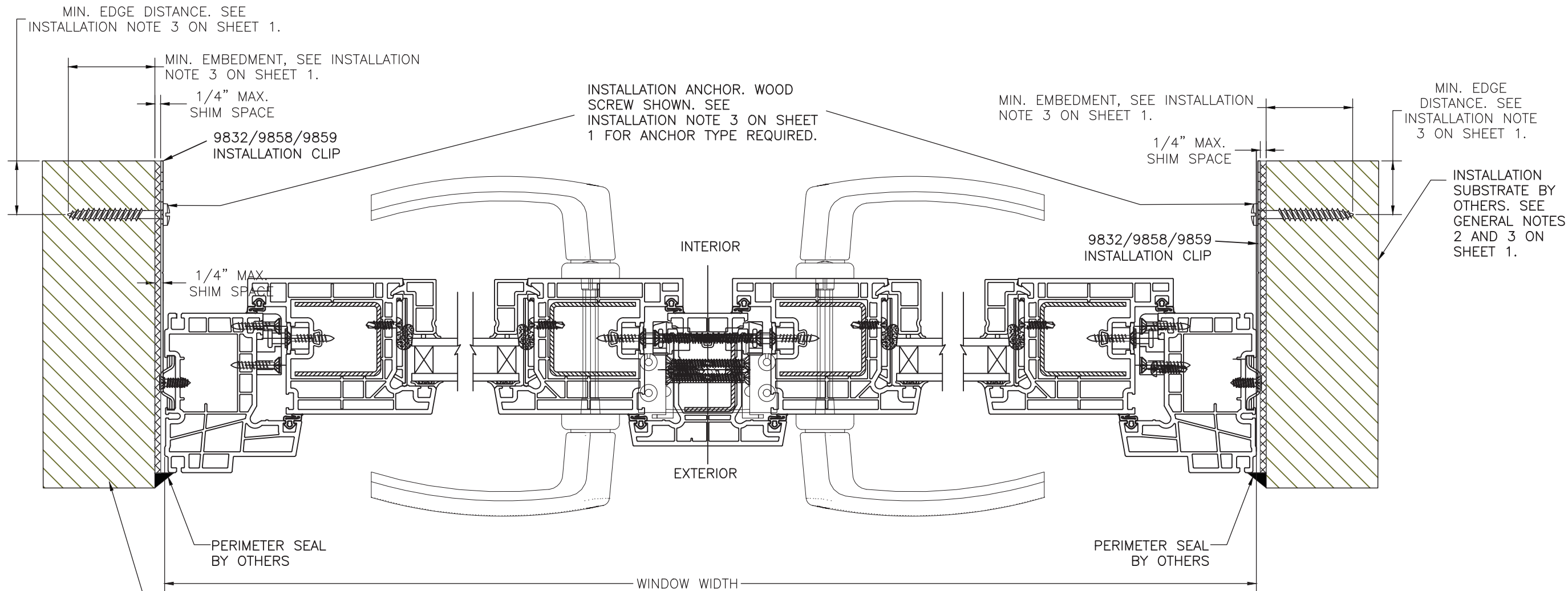
Digitally signed
 by Robert J
 Amoruso
 Date: 2026.08.16
 03:58:30 -04'00'

AMORUSO CONSULTING ENG., LLC
 FBPE REGISTRATION NO. 38327
 226 N NOVA RD, NO. 142
 ORMOND BEACH, FL 32174
 RJAENGPE@GMAIL.COM

WOOD FRAMING, 2X WOOD BUCK,
CONCRETE/MASONRY OR STEEL STUD APPROVED



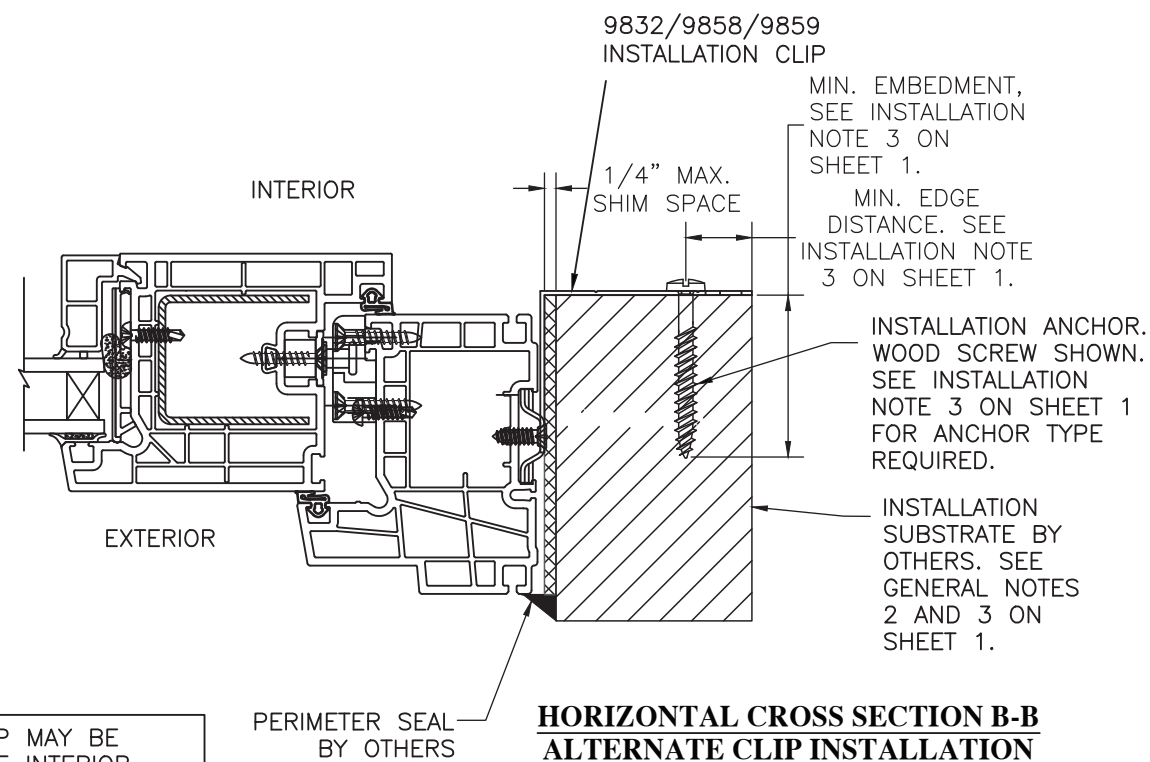
AMORUSO CONSULTING ENG., LLC
FBPE REGISTRATION NO. 38327
226 N NOVA RD, NO. 142
ORMOND BEACH, FL 32174
RJAENGPE@GMAIL.COM



HORIZONTAL CROSS SECTION B-B
WOOD FRAMING, 2X WOOD BUCK,
CONCRETE/MASONRY OR STEEL STUD APPROVED

INSTALLATION SUBSTRATE BY OTHERS. SEE GENERAL NOTES 2 AND 3 ON SHEET 1.

SEE SHEET 3, INSTALLATION DETAIL B FOR CLIP ANCHOR DETAILS



**HORIZONTAL CROSS SECTION B-B
ALTERNATE CLIP INSTALLATION
(RIGHT JAMB SHOWN, LEFT JAMB SAME)**
WOOD FRAMING, 2X WOOD BUCK OR STEEL STUD
APPROVED (CONCRETE/MASONRY NOT RECOMMENDED)
(SEE NOTE 1 & 2 THIS SHEET)

NOTE 1: INSTALLATION CLIP MAY BE TRIMMED TO ACCOMMODATE INTERIOR FINISHING.
NOTE 2: INSTALLATION CLIP MAY BE BENT TO ACCOMMODATE INTERIOR FINISHING.

PROJECT NO. ACE-2025-128

ECO GLASS, LLC
144 HOPE STREET
LONGWOOD, FL 32750

TITLE: SERIES S-6300 TILT & TURN TERRACE INSWING DOOR
HORIZONTAL SECTION C - CLIP INSTALLATION

DATE: 10/27/20
DRAWING NO: ECOGLASS009
SHEET: 7 OF 9

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

ADVANCED FLORIDA WINDOW SOLUTION
321-207-0507 | info@vk-ecoglass.com

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

Digitally signed
by Robert J
Amoruso
Date: 2026.08.16
03:59:26 -04'00'

AMORUSO CONSULTING ENG., LLC
FBPE REGISTRATION NO. 38327
226 N NOVA RD, NO. 142
ORMOND BEACH, FL 32174
RJAENGPE@GMAIL.COM



AMORUSO CONSULTING ENG., LLC
FBPE REGISTRATION NO. 38327
226 N NOVA RD, NO. 142
ORMOND BEACH, FL 32174
RJAENGPE@GMAIL.COM