

ECO GLASS LLC

SERIES S-3830 CASEMENT WINDOW

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

- 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-04124-A1 (36x78) AND AI-03681-Q1 (32x71) BY AIR-INS INC. (AN UL COMPANY).
- 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 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.
- 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.
- 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:
- MATERIALS:
 - FRAME: RIGID VINYL
- GLAZING:
 - INSULATING GLASS UNIT DESCRIPTION
 - FOR WINDOWS GREATER IN SIZE THAN 32x71 UP TO AND INCLUDING 36x78
 - DETAIL A: 25.4 mm (1.0") 5MM (3/16") ANNEALED, AIR GAP 15.4 MM (0.61")
 - FOR WINDOWS EQUAL TO AND LESS IN SIZE THAN 32x71
 - DETAIL B: 21.8 mm (0.86") 4MM (5/32") ANNEALED, AIR GAP 13.8 MM (0.54")
 - OVERALL (O.A.) THICKNESS AND AIR GAP CAN VARY BASED ON SPACER USED AND WILL NOT AFFECT GLAZING STRENGTH.
 - 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.
 - GLASS MEETS THE REQUIREMENTS OF ASTM E1300-12AE1.
- PANEL OPERABILITY DESIGNATIONS:
 - O = FIXED
- PERIMETER AND JOINT SEALANT BY OTHERS TO BE DETAILED IN ACCORDANCE WITH THE FBC, RESIDENTIAL AND BUILDING VOLUMES AND WITH FMA/AAMA/WDMA PROTOCOLS. PERIMETER AND JOINT SEALANT IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY AND IS NOT PART OF THIS PRODUCT APPROVAL DOCUMENT.

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INSTALLATION NOTES:

- 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.
 - LOCATION TOLERANCE IS +/- 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.
- 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".
- SEE INSTALLATION ANCHOR SCHEDULE ON THIS SHEET FOR ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE REQUIREMENTS.
 - INSTALLATION ANCHORS SHALL BE CORROSION RESISTANT OR HAVE CORROSION RESISTANT COATING.
 - SEE INSTALLATION NOTE 4 FOR MINIMUM SUBSTRATE PROPERTIES.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42 (NON-HVHZ).
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
 - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90 MEDIUM WEIGHT WITH COMPRESSIVE STRENGTH OF 1900 psi (DENSITY > 117 PCF).
 - STEEL STUD - STRENGTH CONFORMING TO MIN. Fu = 33 KSI AND Ft = 45 KSI. MINIMUM THICKNESS 20 GA.

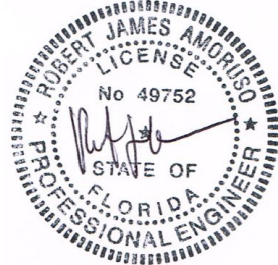
PERFORMANCE RATING			
MAXIMUM WINDOW SIZE (IN)	DESIGN PRESSURE RATING (PSF)	GLAZING DETAIL (SEE GENERAL NOTE 7.1)	IMPACT RATING
36 x 78	60	A	NONE
32 x 71	65	B	NONE

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 SELF-DRILLING SHEET METAL SCREW	FULL THICKNESS OF MEMBER PLUS 3 FULL THREAD LENGTHS PAST INTERIOR	1/2

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				DATE
				DESCRIPTION
				REV

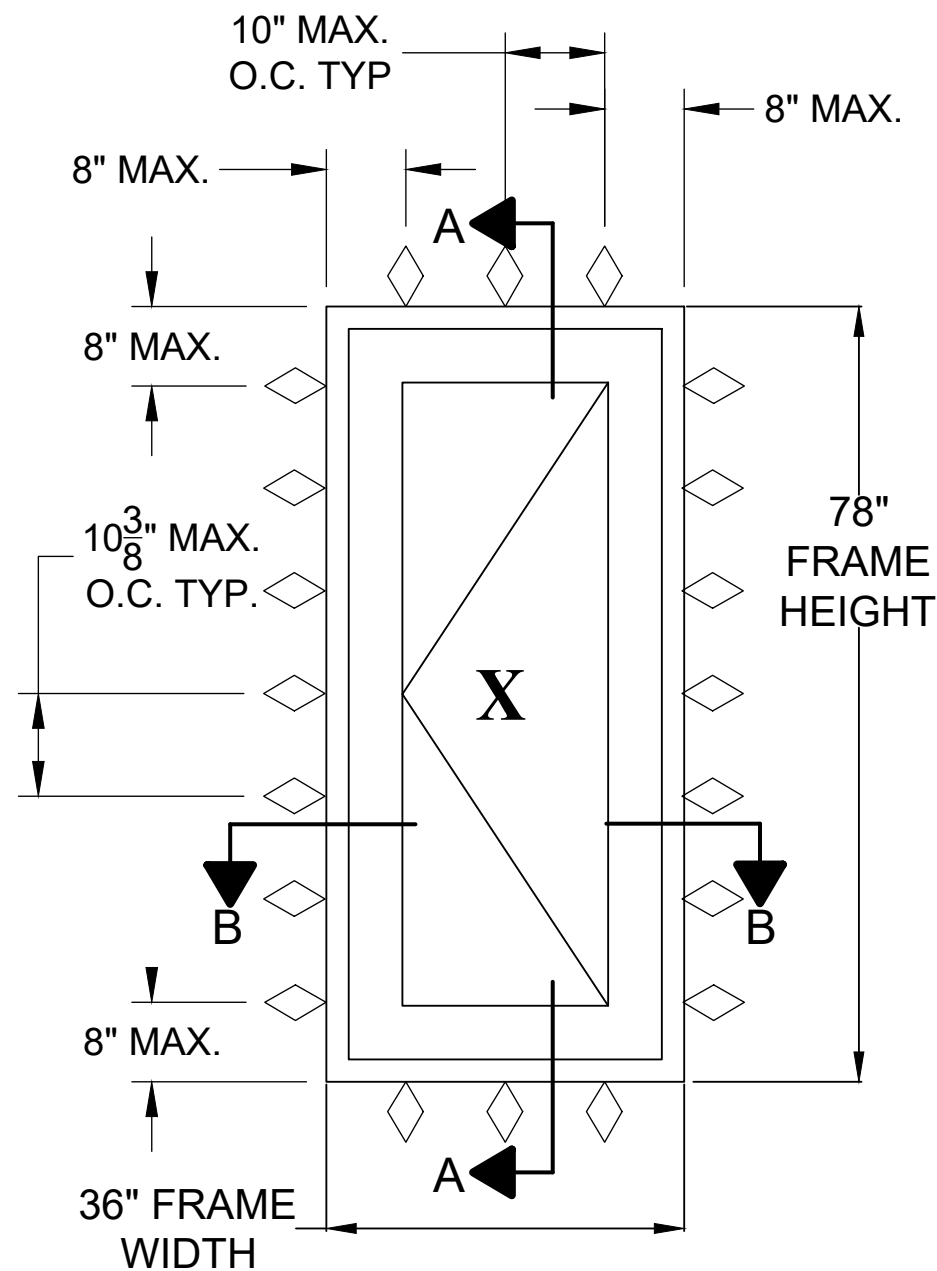
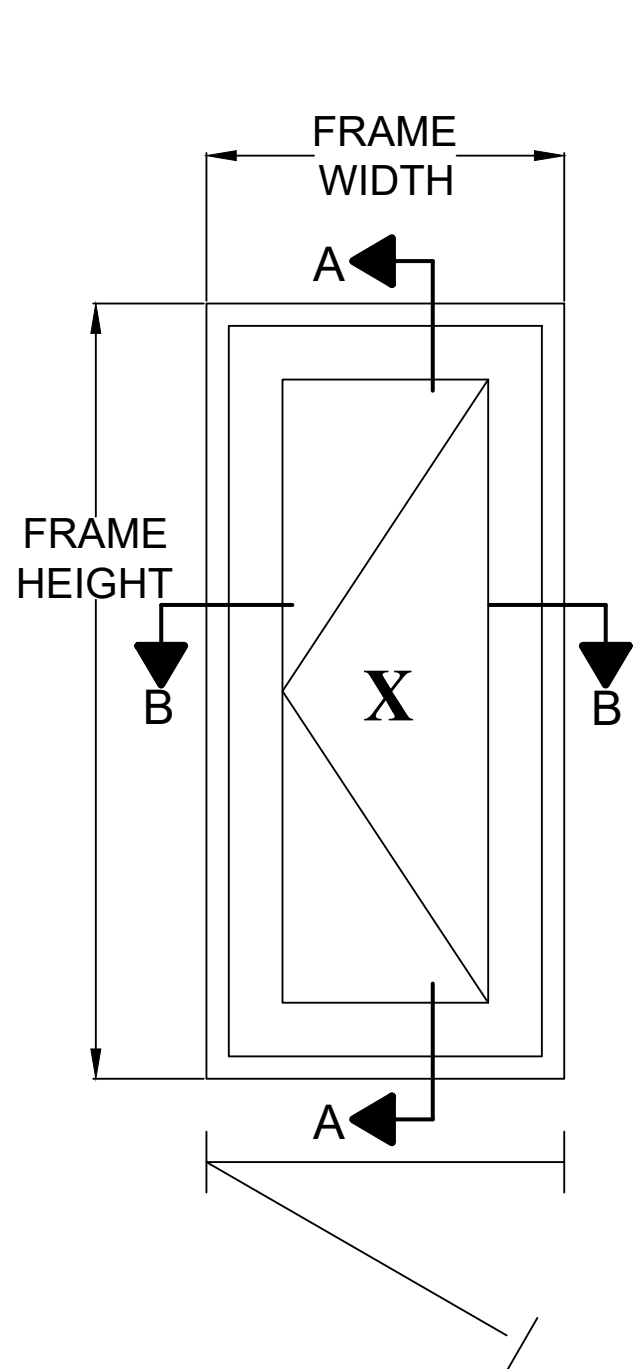
ECO GLASS, LLC 144 HOPE STREET LONGWOOD, FL 32750	TITLE: SERIES S-3830 CASEMENT WINDOW INSTALLATION AND GENERAL NOTES	DRAWN BY: RJA	DATE: 8/30/20	DRAWING NO: EOCGLASS005	SHEET: 1 OF 9
		SCALE: N.T.S.			
		REV:	---		
		 321-207-0507 info@vk-ecoglass.com			

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Florida P.E. No. 49752

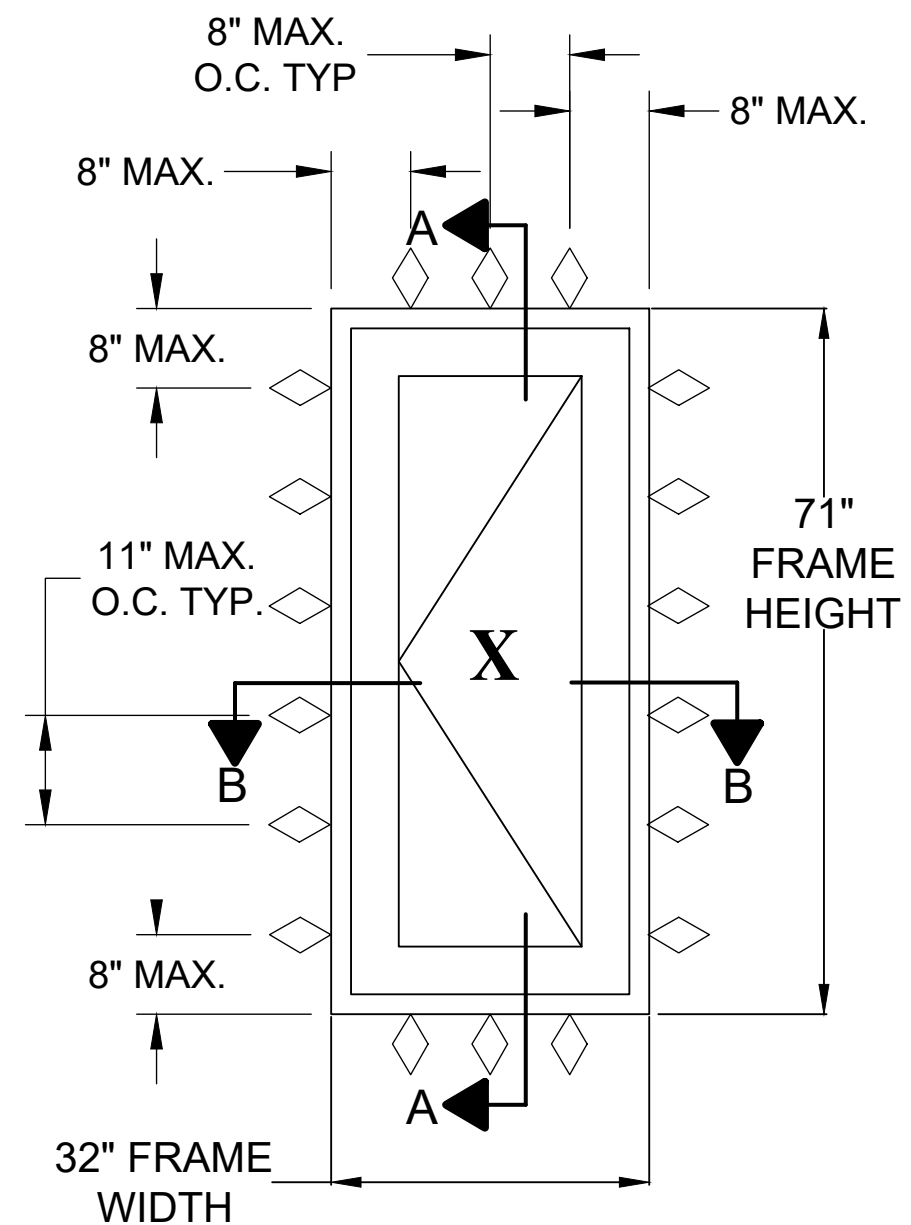


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Amoruso
Date: 2020.10.09
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12472 LAKE UNDERHILL RD.
SUITE NO. 148
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robert.amoruso@comcast.net



36 x 78 NOMINAL SIZE



32 x 71 NOMINAL SIZE

◇ ANCHOR/FASTENER

BLOCK/EQUAL LEG THROUGH
FRAME INSTALLATION and CLIP INSTALLATION
 EXTERIOR VIEW

MAXIMUM SIZES		
FRAME (NOMINAL)	36" x 78"	32" x 71"
SASH	34.45" X 76.26"	29.61" X 69.33"
DLO	29.1" X 71.06"	25.4" X 64.4"

SERIES S-3830 CASEMENT WINDOW
 EXTERIOR VIEW

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 144 HOPE STREET
 LONGWOOD, FL 32750

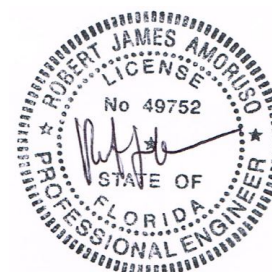
TITLE: SERIES S-3830 CASEMENT WINDOW
 EXTERIOR ELEVATION AND ANCHORAGE



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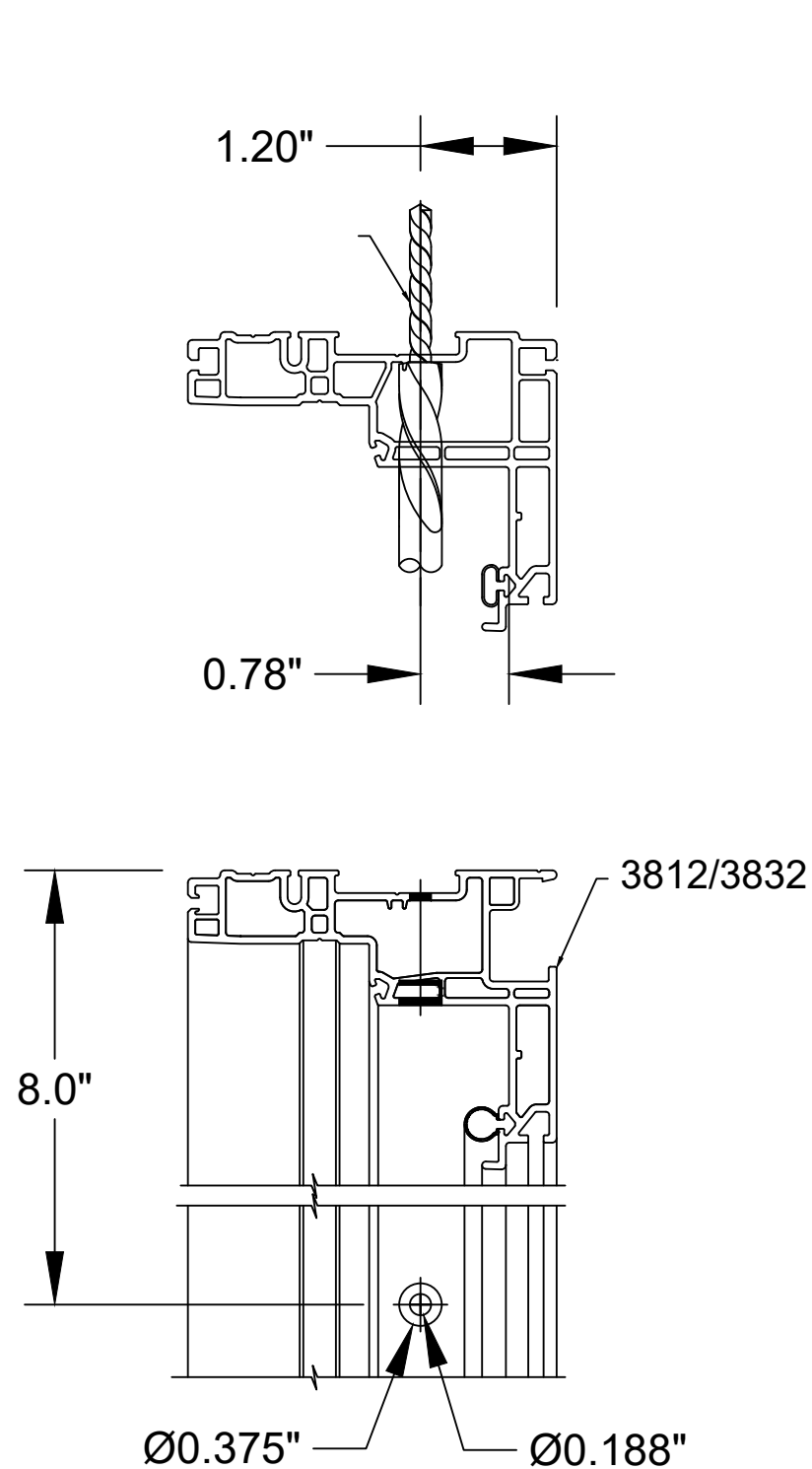
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 SHEET: 2 OF 9

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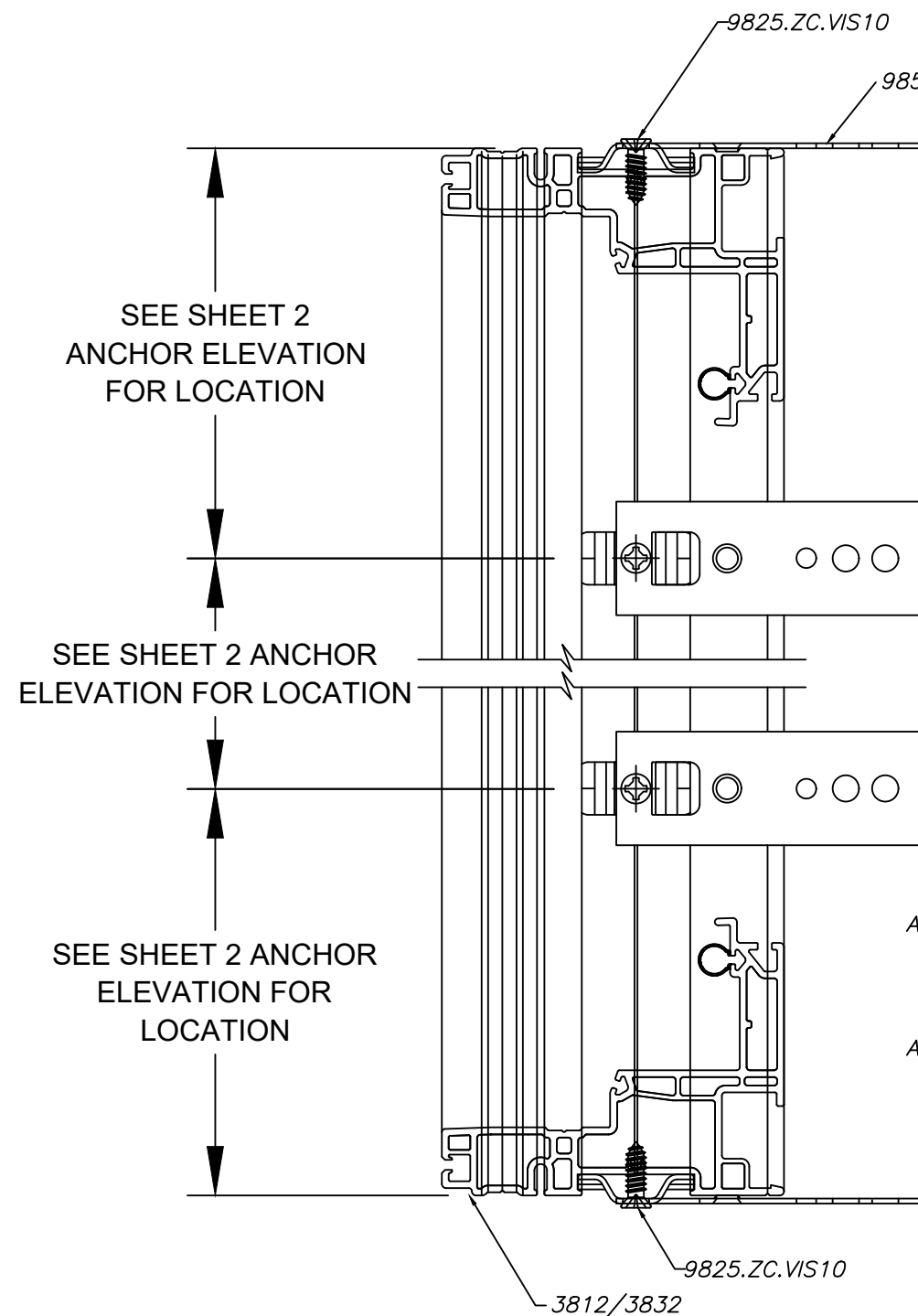


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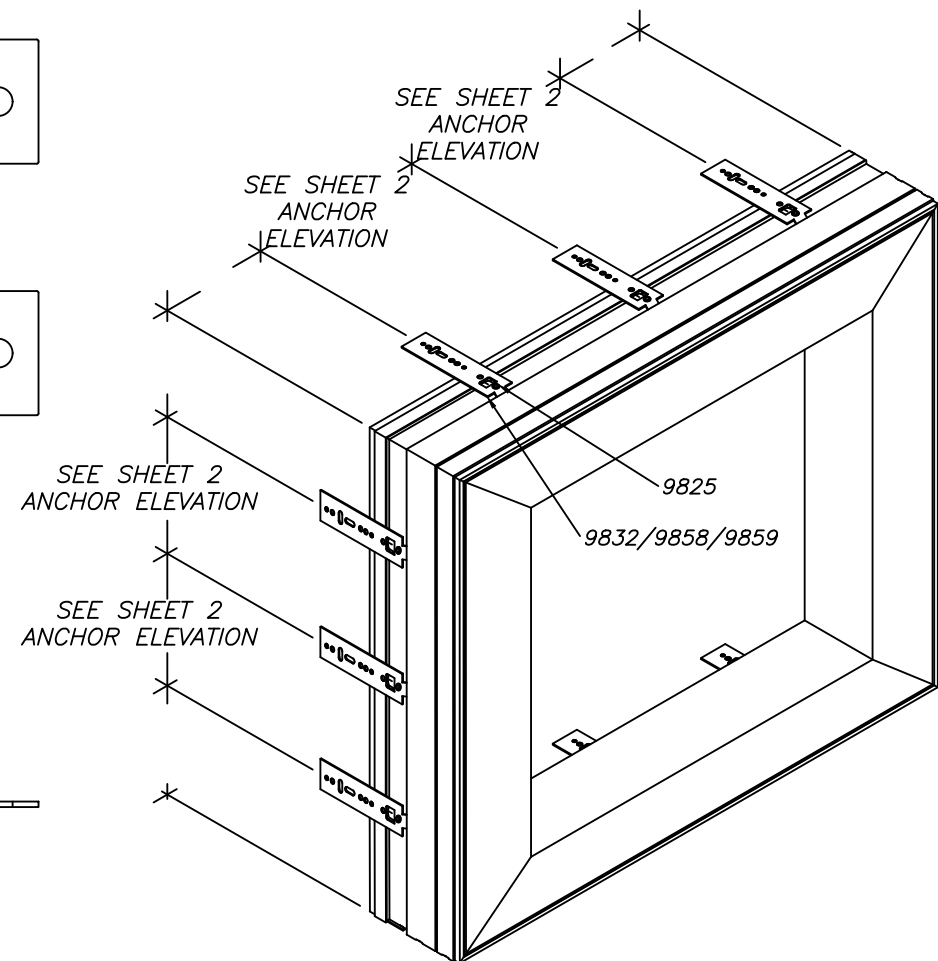
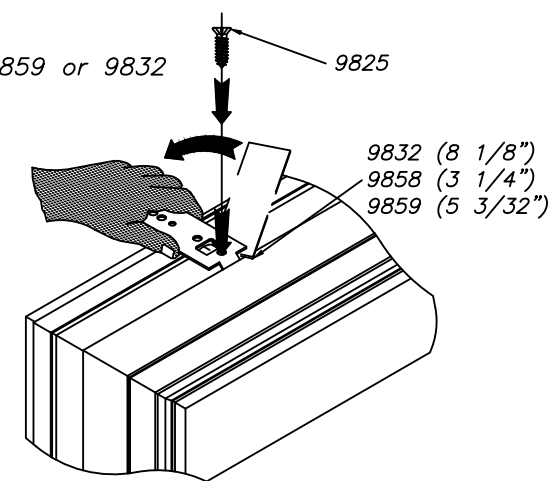
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**THROUGH-FRAME
INSTALLATION DETAIL A**



CLIP INSTALLATION DETAIL B



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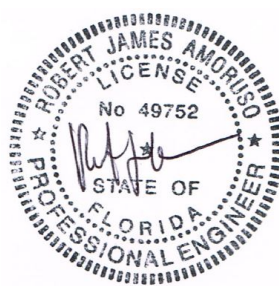
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SERIES S-3830 CASEMENT WINDOW
INSTALLATION DETAILS A & B

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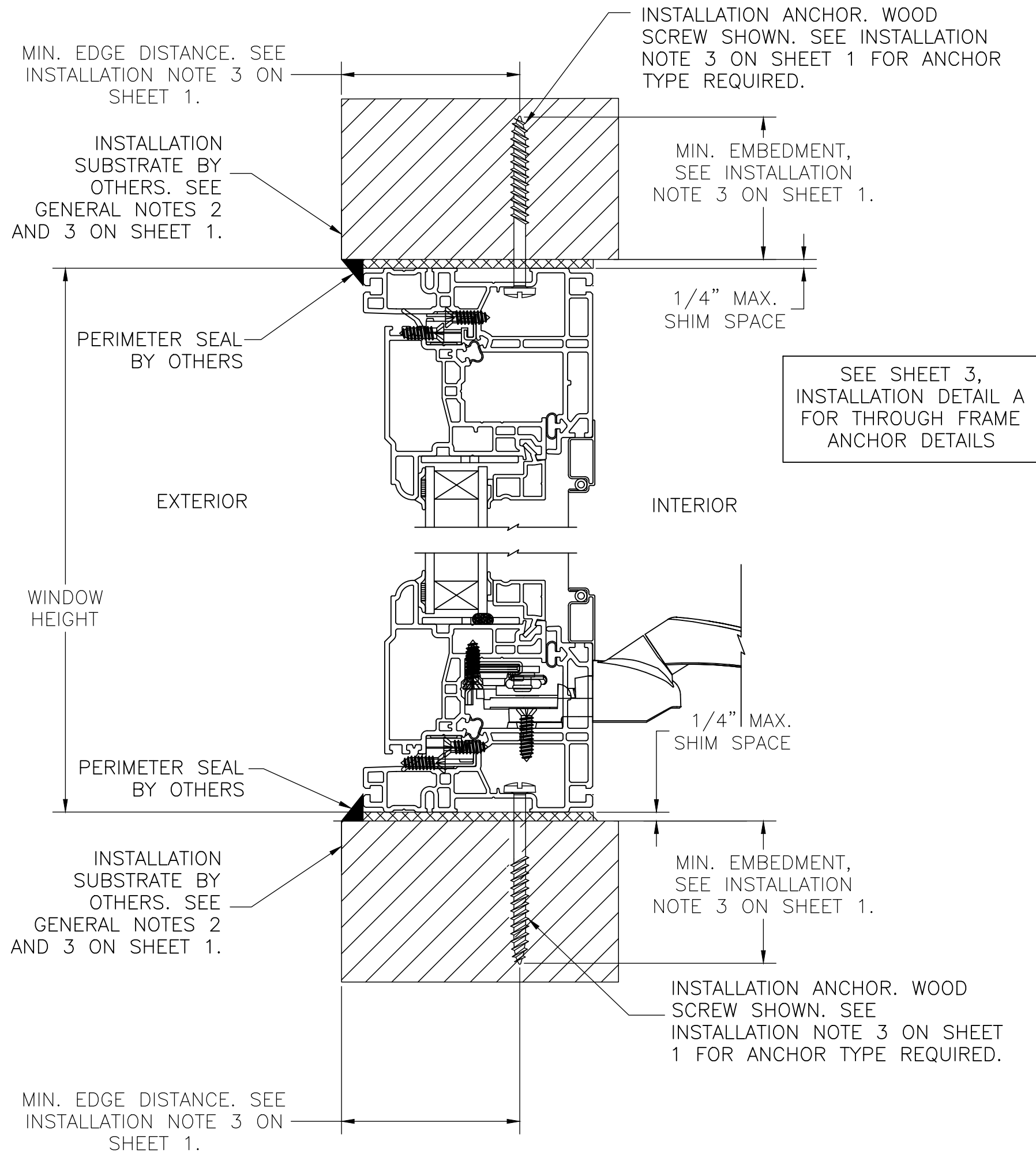


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**VERTICAL CROSS SECTION A-A
THROUGH FRAME INSTALLATION**

WOOD FRAMING, 2X WOOD BUCK,
CONCRETE/MASONRY OR STEEL STUD APPROVED
(CROSS SECTION B-B INSTALLATION SAME)



PROJECT NO. ACE-2020-106				REV	DESCRIPTION	DATE	BY

ECO GLASS, LLC 144 HOPE STREET LONGWOOD, FL 32750		TITLE: SERIES S-3830 CASEMENT WINDOW VERTICAL SECTION A - THROUGH FRAME INSTALLATION		DRAWN BY: RJA		DATE: 8/30/20	DRAWING NO: ECOGLOSS005	SHEET: 4 OF 9
				SCALE: N.T.S.		REV: ---		
321-207-0507 info@vk-ecoglass.com								

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MIN. EDGE DISTANCE. SEE
INSTALLATION NOTE 3 ON
SHEET 1.

MIN. EMBEDMENT,
- SEE INSTALLATION
- NOTE 3 ON SHEET 1.

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

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

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

1/4" MAX.
SHIM SPACE

MIN. EMBEDMENT,
SEE INSTALLATION
NOTE 3 ON SHEET 1.

MIN. EDGE
DISTANCE. SEE
- INSTALLATION
NOTE 3 ON
SHEET 1.

EXTERIOR

INTERIOR

INSTALLATION ANCHOR.
WOOD SCREW SHOWN.
- SEE INSTALLATION NOTE
3 ON SHEET 1 FOR
ANCHOR TYPE REQUIRED.

PERIMETER SEAL BY OTHERS

1/4" MAX.
SHIM SPACE

SEE SHEET 3,
INSTALLATION DETAIL
B FOR CLIP ANCHOR
DETAILS

9832/9858/9859
INSTALLATION CLIP

1/4" MAX.
SHIM SPACE

MIN. EMBEDMENT,
SEE INSTALLATION
NOTE 3 ON SHEET 1.

MIN. EDGE DISTANCE. SEE
- INSTALLATION NOTE 3 ON
SHEET 1.

VERTICAL CROSS SECTION A-A

CLIP INSTALLATION

WOOD FRAMING, 2X WOOD BUCK,
CONCRETE/MASONRY OR STEEL STUD APPROVED
(CROSS SECTION B-B INSTALLATION SAME)
(SEE NOTE 1 THIS SHEET)

VERTICAL CROSS SECTION A-A
ALTERNATE CLIP INSTALLATION
(HEAD SHOWN, SILL SAME)

WOOD FRAMING, 2X WOOD BUCK OR STEEL STUD
APPROVED (CONCRETE/MASONRY NOT RECOMMENDED)
(CROSS SECTION B-B INSTALLATION SAME)
(SEE NOTE 1 & 2 THIS SHEET)

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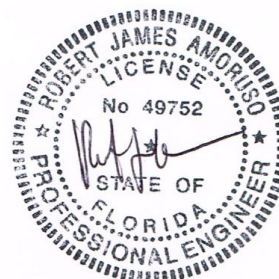
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144 HOPE STREET
LONGWOOD, FL 32750

SERIES S-3830 CASEMENT WINDOW
VERTICAL SECTION A - CLIP INSTALLATION

ECO GLASS
ADVANCED FLORIDA WINDOW SOLUTION

021-207-0307 | 11110000@vk-ecology.com

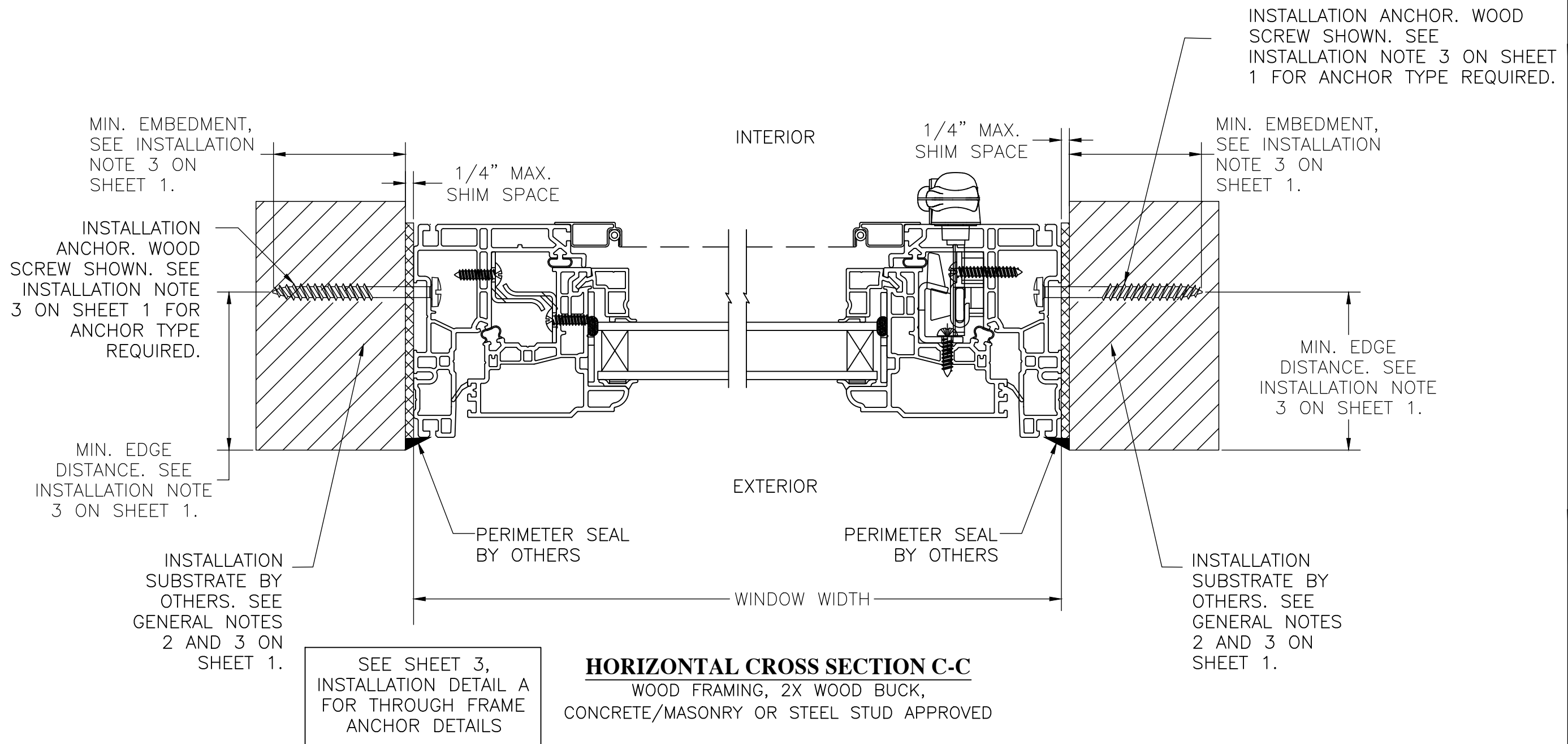
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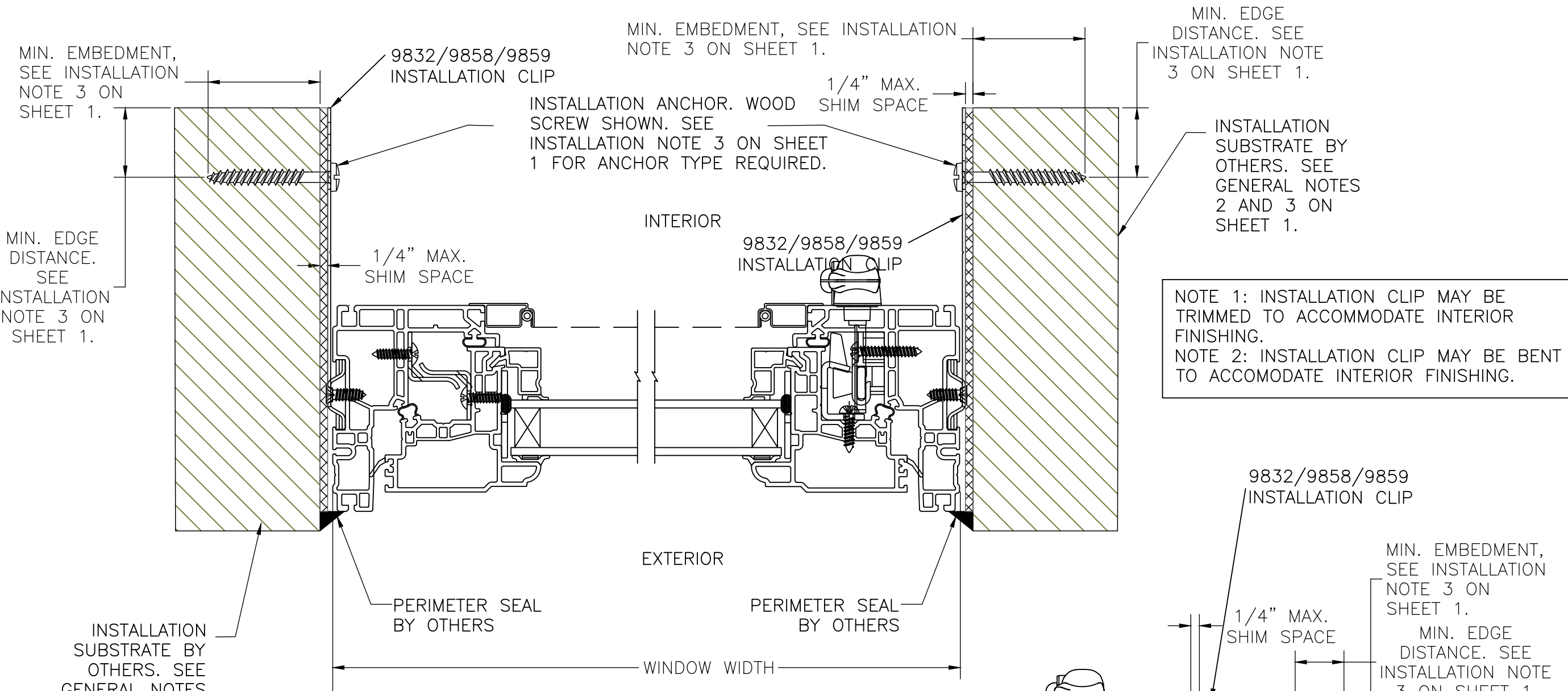
PROJECT NO. ACE-2020-106					BY
					DATE
					DESCRIPTION
					REV

ECO GLASS, LLC 144 HOPE STREET LONGWOOD, FL 32750		TITLE: HORIZONTAL SECTION C - THROUGH FRAME INSTALLATION		DRAWING NO: ECOGLASS005		SHEET: 6 OF 9
SERIES S-3830 CASEMENT WINDOW		DATE: 8/30/20		DRAWING NO: ECOGLASS005		
DRAWN BY: RJA		SCALE: N.T.S.		REV: ---		32 1-207-0507 info@vk-ecoglass.com
DATE: 8/30/20		DRAWN BY: RJA		SCALE: N.T.S.		

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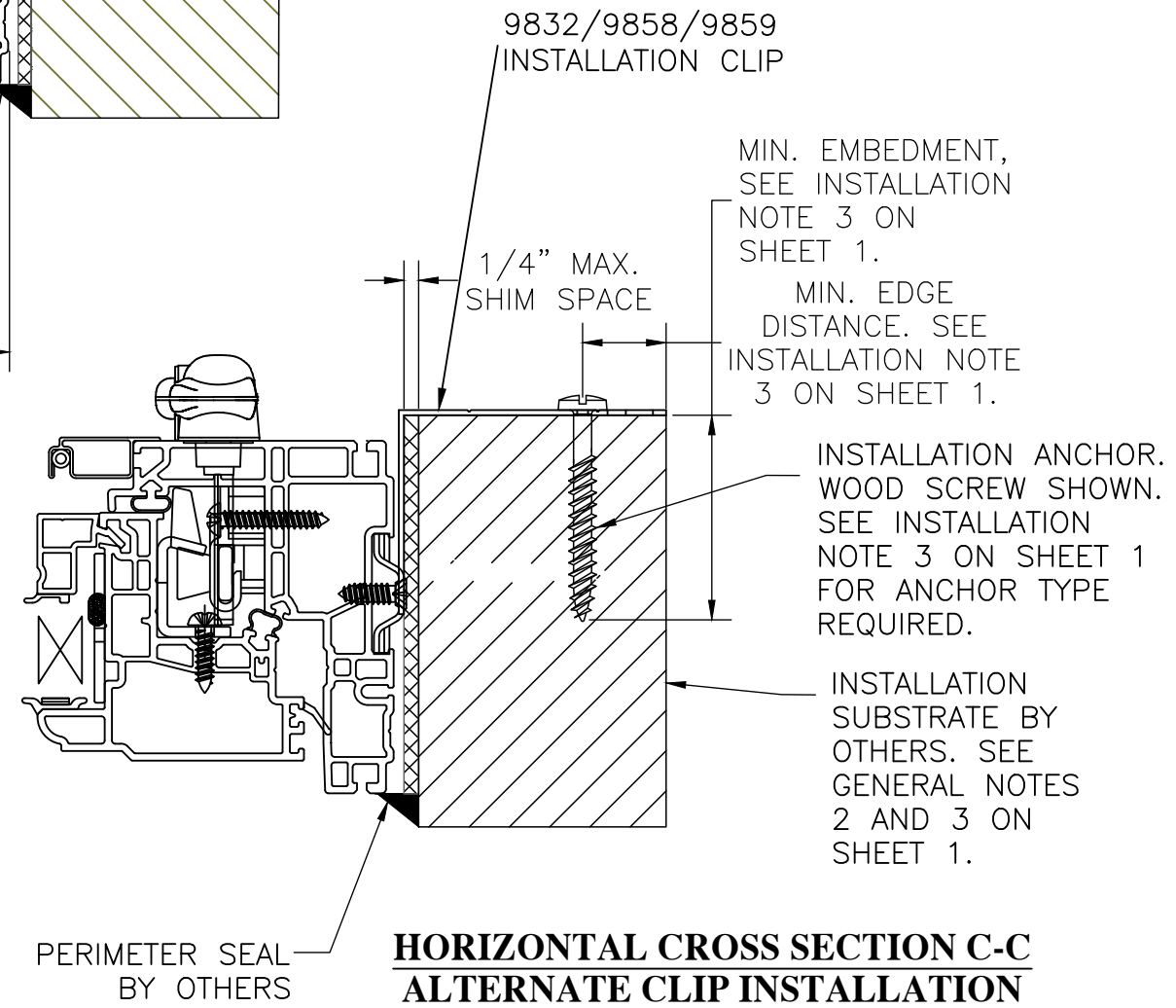
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HORIZONTAL CROSS SECTION C-C
WOOD FRAMING, 2X WOOD BUCK,
CONCRETE/MASONRY OR STEEL STUD APPROVED

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



**HORIZONTAL CROSS SECTION C-C
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)

SEE SHEET 3,
INSTALLATION DETAIL
B FOR CLIP ANCHOR
DETAILS

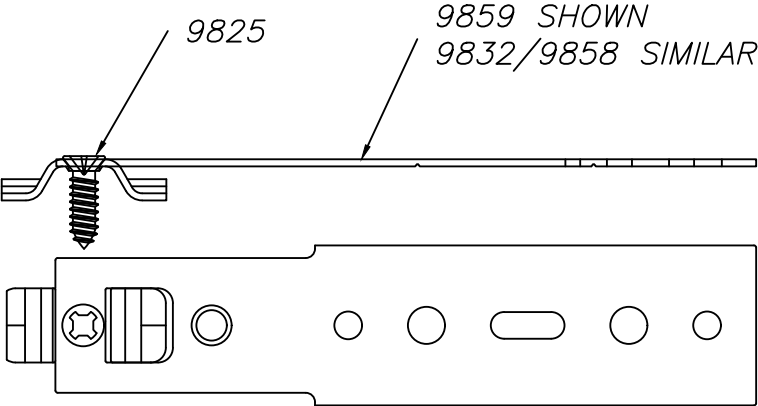
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					DATE
					DESCRIPTION
					REV

ECO GLASS, LLC 144 HOPE STREET LONGWOOD, FL 32750	DRAWN BY: RJA	SCALE: N.T.S.	DATE: 8/30/20	DRAWING NO: ECOGLOSS005	SHEET: 7 OF 9

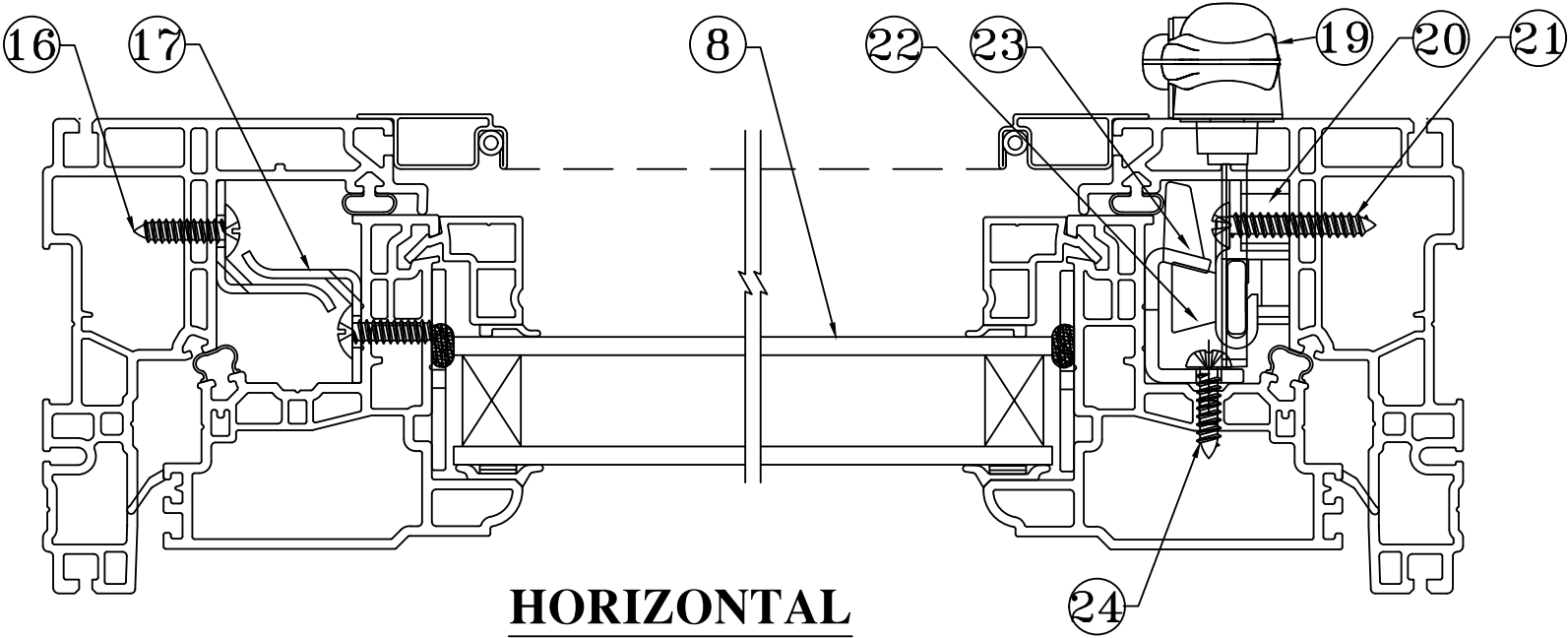
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INSTALLATION CLIP
9859 SHOWN
9832 & 9858 SIMILAR
(CLIP LENGTH AND FASTENER HOLE
PATTERN VARIES)



HORIZONTAL
CROSS SECTION B-B

PROJECT NO. ACE-2020-106				BY
				DATE
				DESCRIPTION
			REV	

ECO GLASS, LLC 144 HOPE STREET LONGWOOD, FL 32750		DRAWN BY: RJA		DATE: 8/30/20
TITLE: SERIES S-3830 CASEMENT WINDOW HORIZONTAL COMPONENT CROSS-SECTIONS & CLIP		SCALE: N.T.S.	DRAWING NO: ECOGLASS005	
		REV: ---	SHEET: 9 OF 9	

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