

ECO GLASS LLC

SERIES S-3555 DOUBLE HUNG WINDOW

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/A440-11 & 17 DOCUMENTED IN TEST REPORT NO. NCTL-210-4193-2 BY NCTL.
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 19 MM (0.75") O.A. THICKNESS

7.1.1.

UPPER AND LOWER SASH GLAZING

7.1.1.1.

GLASS THICKNESS 3MM (1/8") ANNEALED

7.1.1.2.

AIR GAP 12.7MM (0.50")

7.1.2.

OVERALL (O.A.) THICKNESS AND AIR GAP CAN VARY BASED ON SPACER USED AND WILL NOT AFFECT GLAZING STRENGTH.

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/A440-17, SECTION 10.2.3.3.1.

7.3.

GLASS MEETS THE REQUIREMENTS OF ASTM E1300-12AE1.
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. PERIMETER SEALANT BY OTHERS SHOWN IN THE SECTION VIEWS IS FOR ILLUSTRATION ONLY AND NOT PART OF THIS PRODUCT APPROVAL DOCUMENT.

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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.

PERFORMANCE RATING		
MAXIMUM WINDOW SIZE (IN)	DESIGN PRESSURE RATING (PSF)	IMPACT RATING
52 X 72	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 SELF-DRILLING SHEET METAL SCREW	FULL THICKNESS OF MEMBER PLUS 3 FULL THREAD LENGTHS PAST INTERIOR	1/2

PROJECT NO. ACE-2021-001				BY
				DATE
				DESCRIPTION
				REV

ECO GLASS, LLC 144 HOPE STREET LONGWOOD, FL 32750	TITLE: SERIES S-3555 DOUBLE HUNG WINDOW INSTALLATION AND GENERAL NOTES	DRAWN BY:	RJA	DATE:	3/3/2021
		SCALE:	N.T.S.	DRAWING NO:	EOGLASS013
		REV:	---	SHEET:	1 OF 9
		ECO GLASS ADVANCED FLORIDA WINDOW SOLUTION 321-207-0507 info@vk-ecoglass.com			

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

ROBERT JAMES AMORUSO

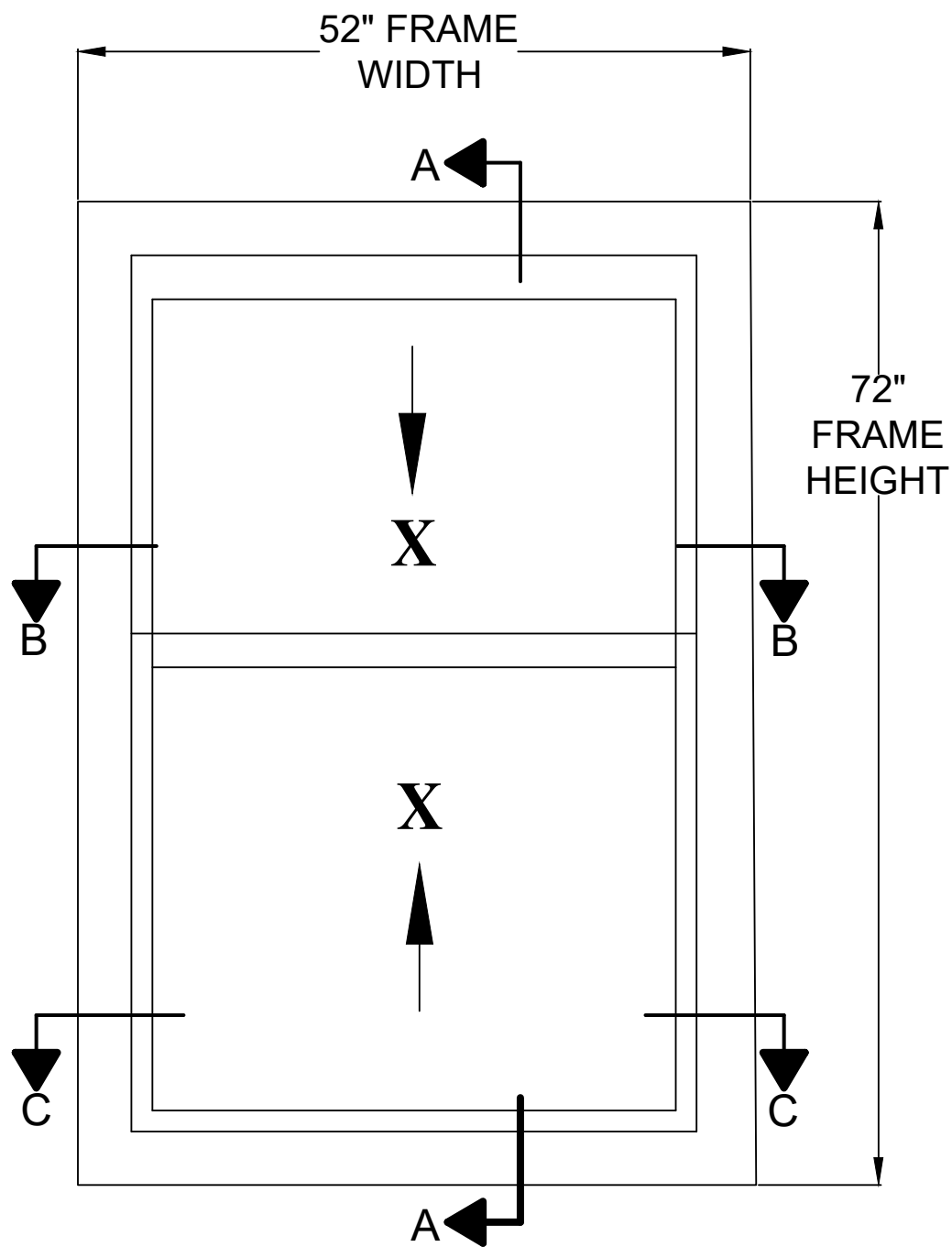
FLORIDA PROFESSIONAL ENGINEER

No 49752

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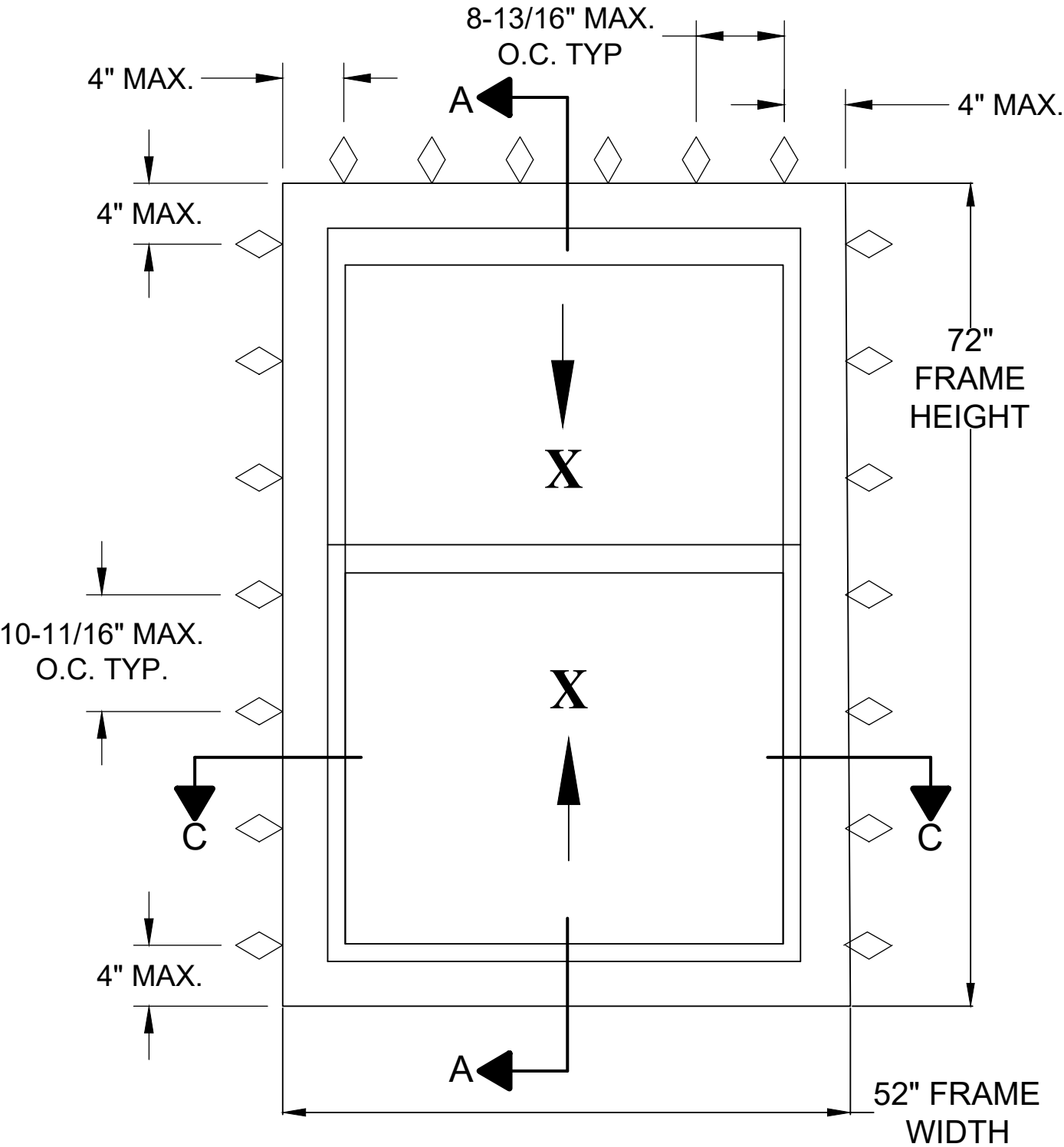
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robert.amoruso@comcast.net



MAXIMUM SIZES	
FRAME	52" X 72"
UPPER SASH	48" X 35"
LOWER SASH	49.25" X 35.75"
DLO - UPPER SASH	44.625" X 31.75"
DLO - LOWER SASH	45.75" X 32.325"

**SERIES S-3555 DOUBLE
HUNG WINDOW**
EXTERIOR VIEW

◇ ANCHOR/FASTENER

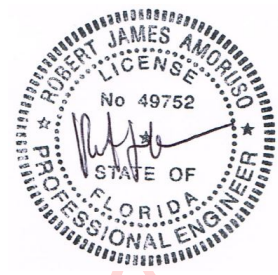


**BLOCK/EQUAL LEG THROUGH
FRAME AND CLIP INSTALLATION**
EXTERIOR VIEW

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					DESCRIPTION
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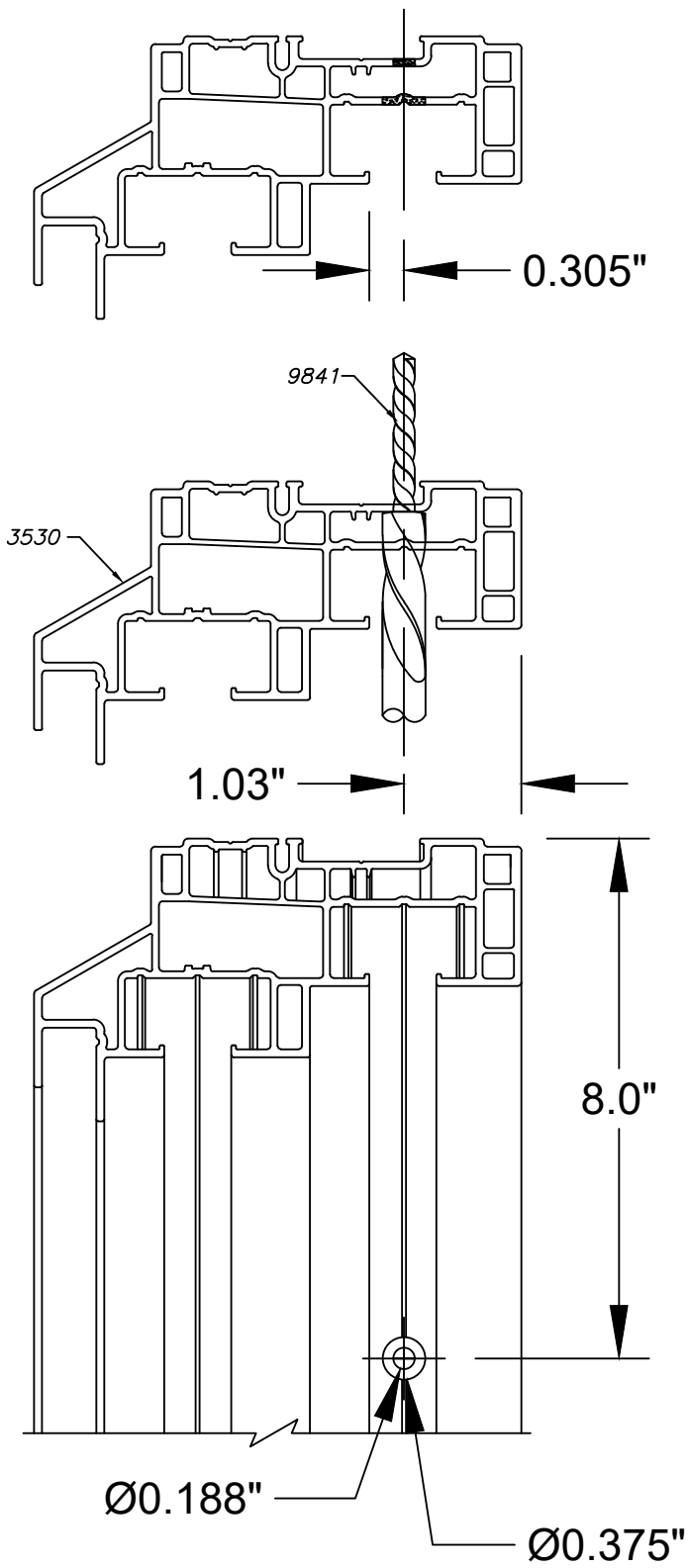
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TITLE: SERIES S-3555 DOUBLE HUNG WINDOW EXTERIOR ELEVATION AND ANCHORAGE		SCALE: N.T.S.		REV: ---	 321-207-0507 info@vk-ecoglass.com	

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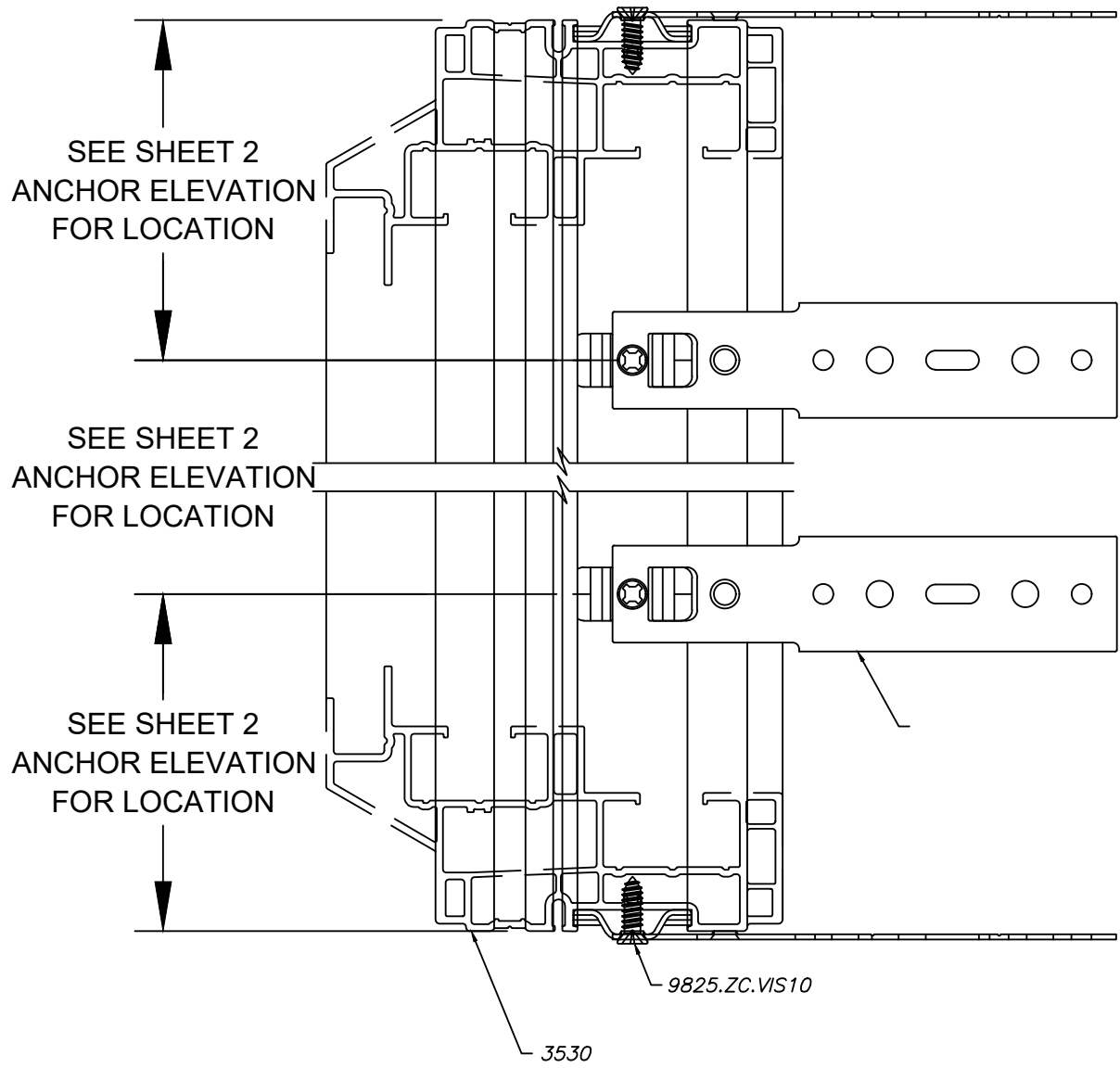


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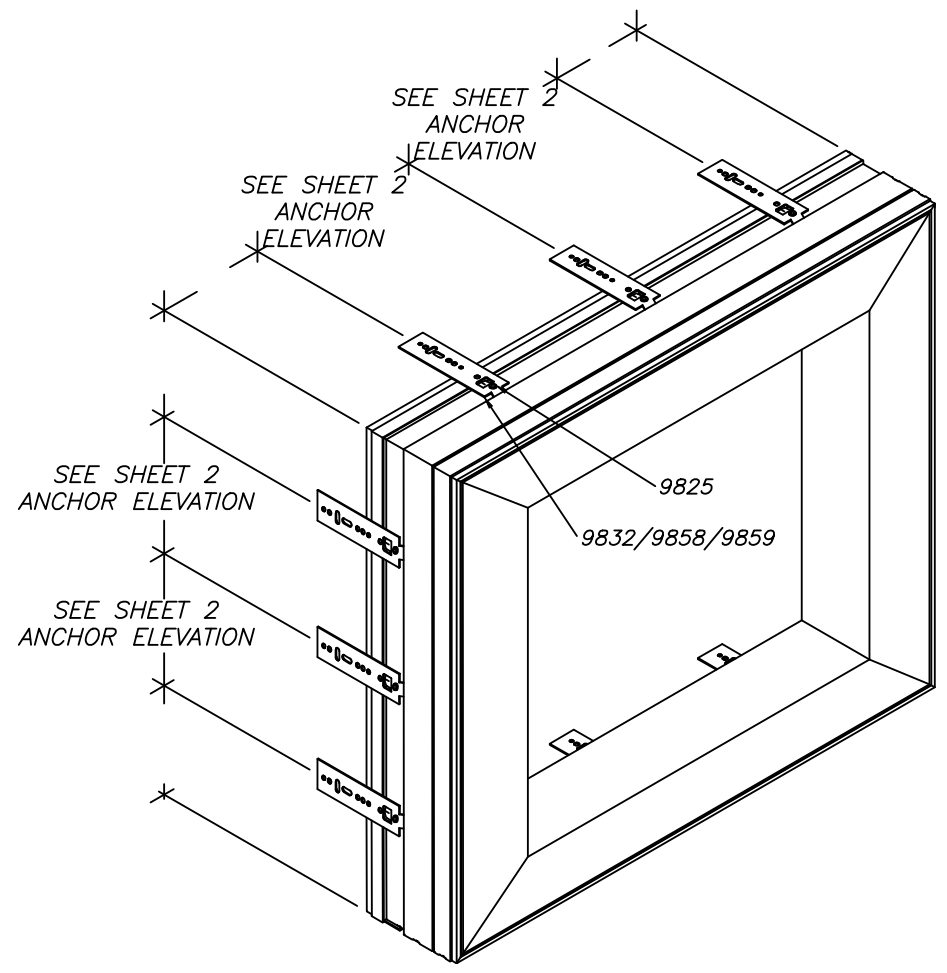
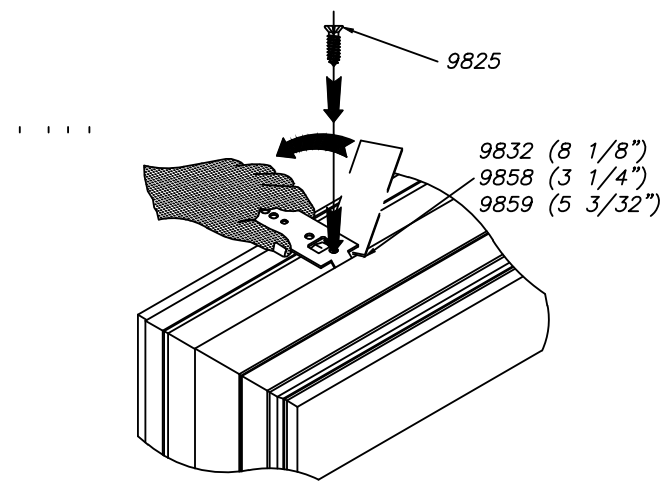
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**THROUGH-FRAME
INSTALLATION DETAIL A**



CLIP INSTALLATION DETAIL B



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ECO GLASS, LLC 144 HOPE STREET LONGWOOD, FL 32750	TITLE: SERIES S-3655 DOUBLE HUNG WINDOW INSTALLATION DETAILS A & B	DRAWN BY:	RJA	DATE:	3/3/2021
		SCALE:	N.T.S.	DRAWING NO:	ECOGLOSS013
		REV:	---	SHEET:	3 OF 9
		321-207-0507 info@k-ecoglass.com			

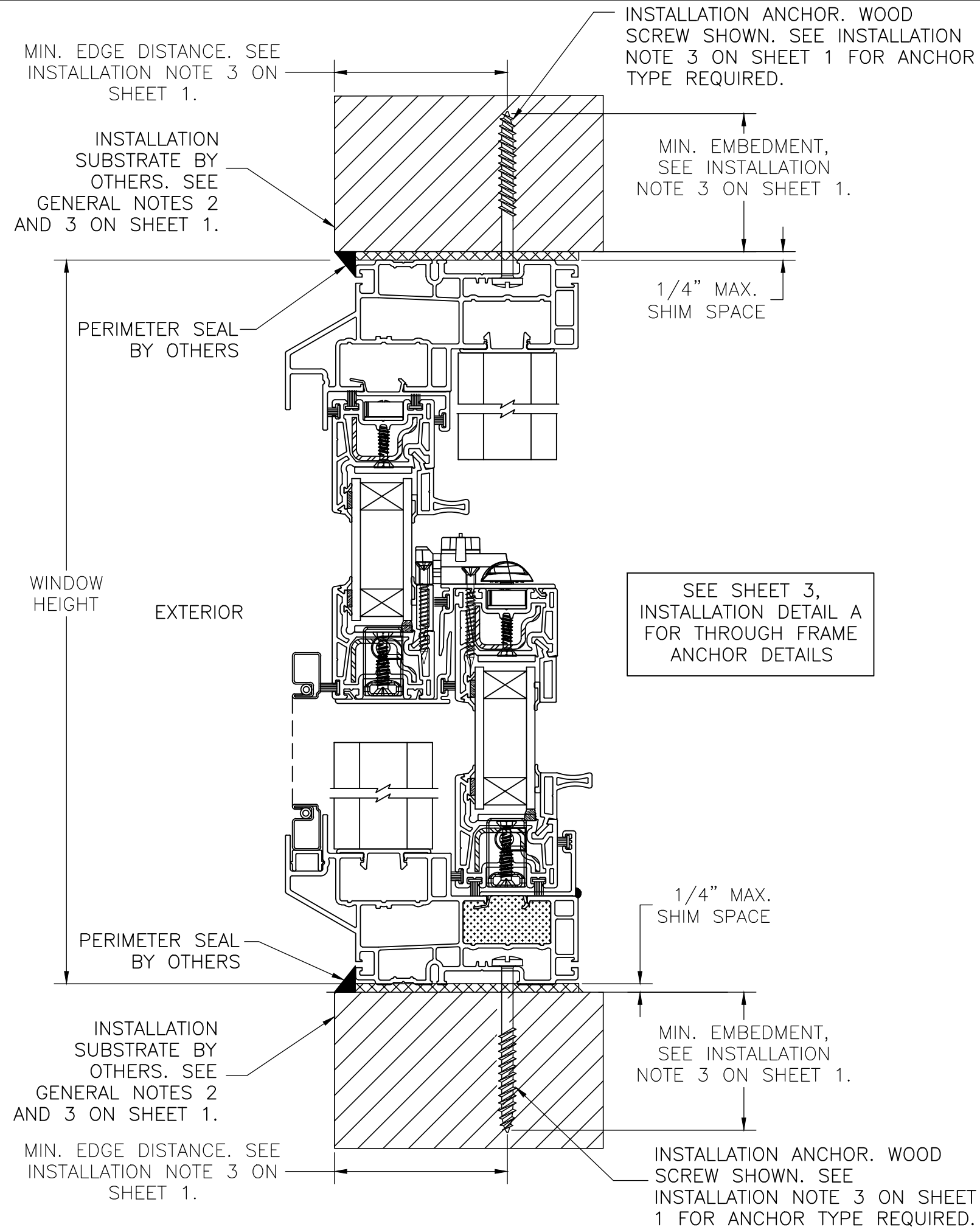
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**VERTICAL CROSS SECTION A-A
THROUGH FRAME INSTALLATION**

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



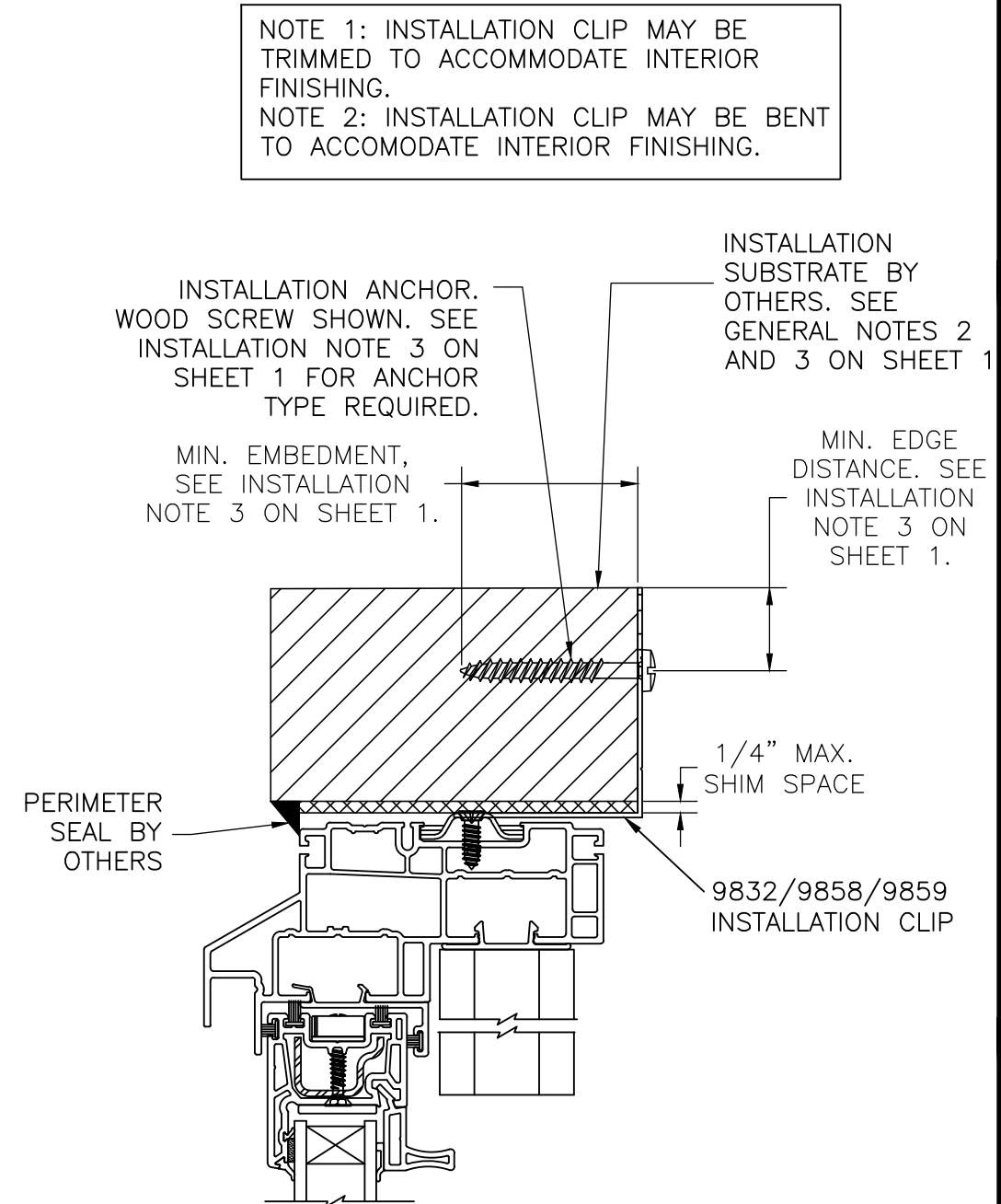
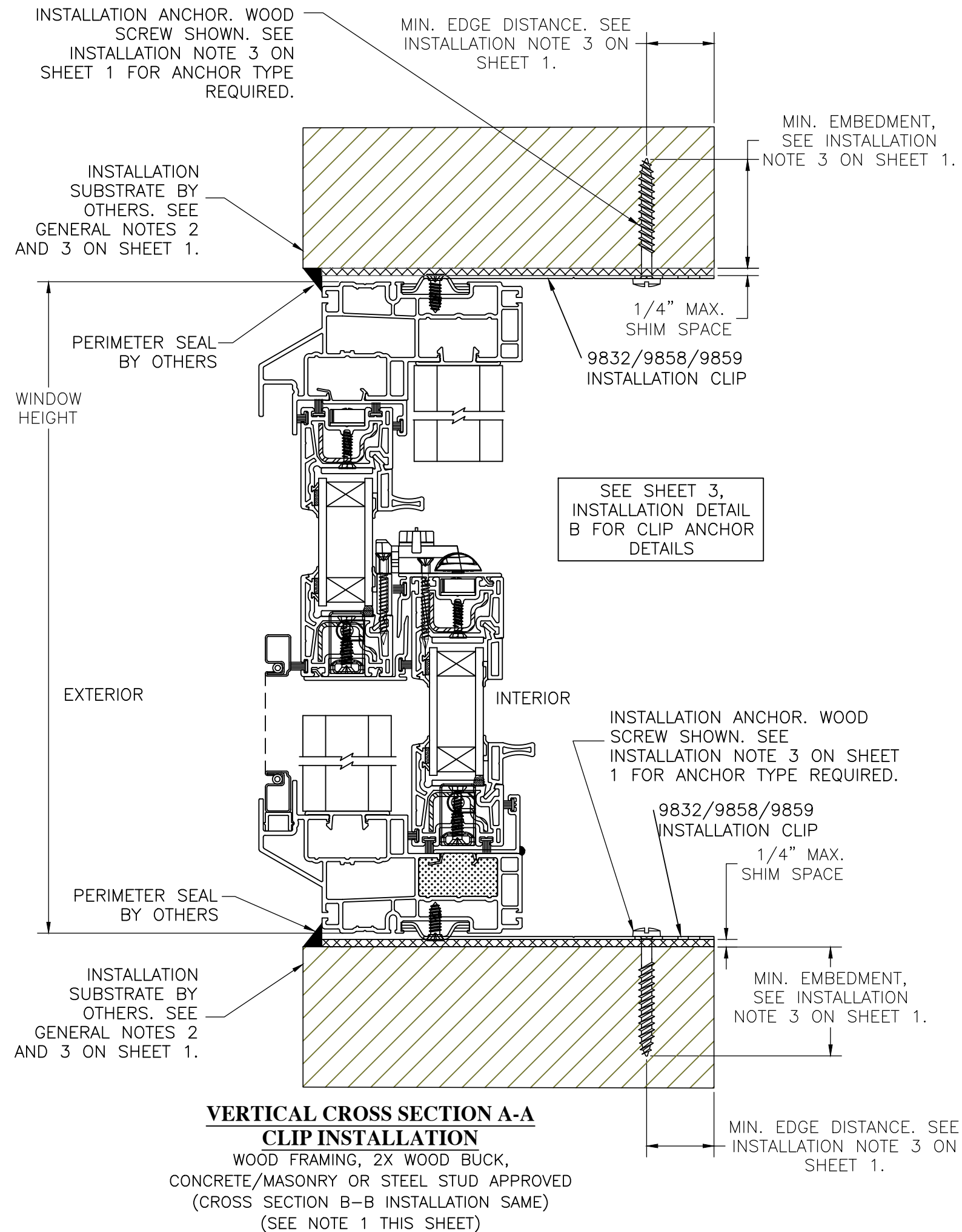
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ECO GLASS, LLC 144 HOPE STREET LONGWOOD, FL 32750				DRAWN BY: RJA	DATE: 3/3/2021	DRAWING NO: ECOGLASS013	SHEET: 4 OF 9
TITLE: SERIES S-3655 DOUBLE HUNG WINDOW VERTICAL SECTION A - THROUGH FRAME INSTALLATION				SCALE: N.T.S.	REV:		
				321-207-0507 info@vk-ecoglass.com			

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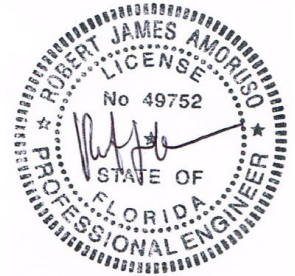


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				DATE
				DESCRIPTION
			REV	

ECO GLASS, LLC 144 HOPE STREET LONGWOOD, FL 32750	TITLE: SERIES S-3655 DOUBLE HUNG WINDOW VERTICAL SECTION A - CLIP INSTALLATION	DATE:	3/3/2021	DRAWING NO: ECOGLOSS013	SHEET: 5 OF 9
		DRAWN BY:	RJA		
		SCALE:	N.T.S.		
		REV:	---		



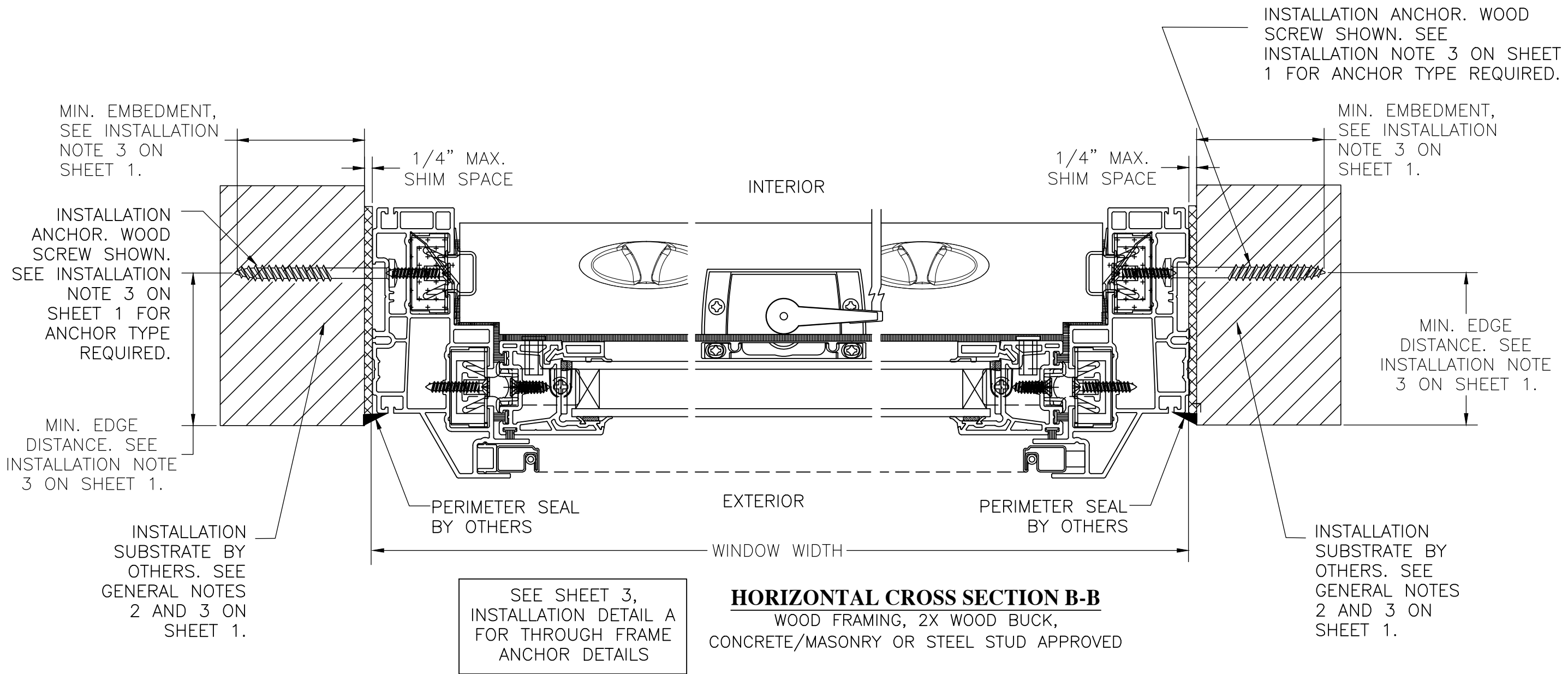
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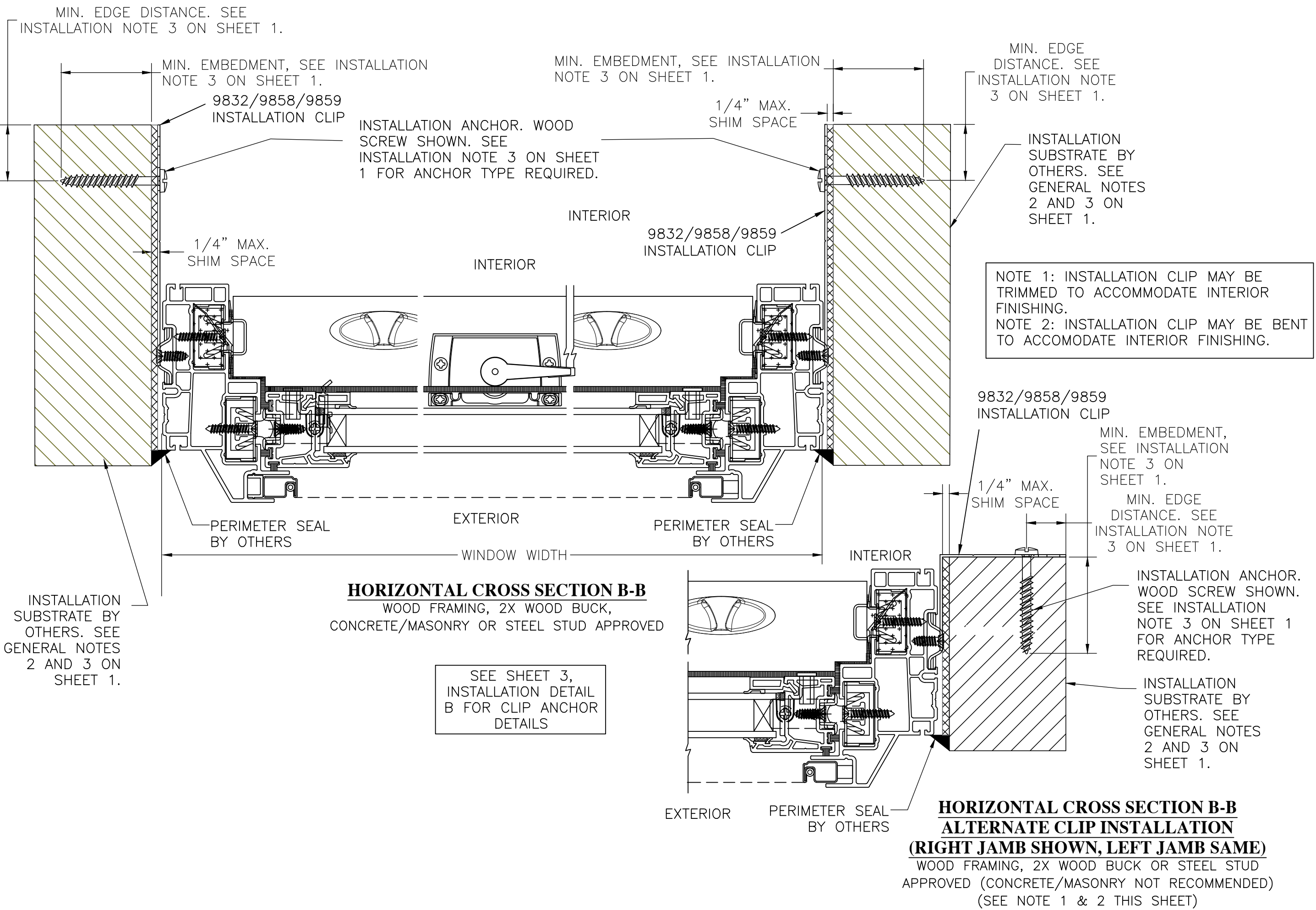
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ECO GLASS, LLC 144 HOPE STREET LONGWOOD, FL 32750	TITLE: SERIES S-3555 DOUBLE HUNG WINDOW HORIZONTAL SECTION C - THROUGH FRAME INSTALLATION	DRAWN BY:	RJA	DATE:	3/3/2021
		SCALE:	N.T.S.	DRAWING NO:	ECOGLOSS013
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				BY
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				DESCRIPTION
				REV

ECO GLASS, LLC
144 HOPE STREET
LONGWOOD, FL 32750

TITLE:
SERIES S-3555 DOUBLE HUNG WINDOW
HORIZONTAL SECTION C - CLIP INSTALLATION

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SCALE: N.T.S.
REV: ---

DATE: 3/3/2021
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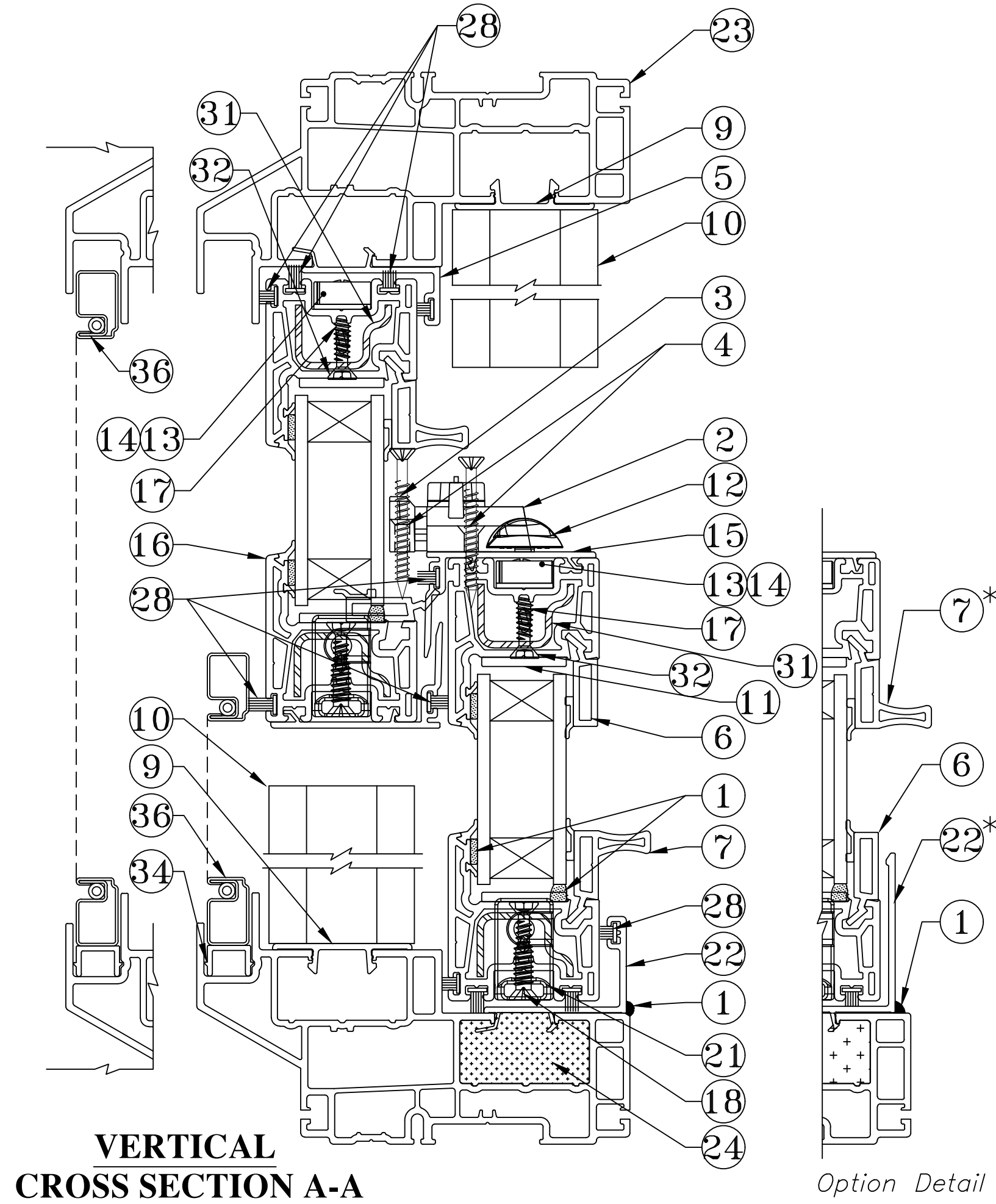
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Item	PART No.	ITEM DESCRIPTION	MANUFACTURERS
1		Sealant	Various
* 2	17.65.xx.xxx 17.32.xx.xxx 17.68.xx.xxx	Cam lock	Truth
3	45070	Keeper	Truth
4	9752	No. 6 x 1 1/2", flat head, Quadrex screw	P.H. Tech
5	5881	Sash Retainer-low	P.H. Tech
6	5800	Glazing bead	P.H. Tech
7	5810	Handle sash profile	P.H. Tech
8		Glass	Various
9	5832	Covering cap	P.H. Tech
10	5872	Sash stopper	P.H. Tech
11	9828	Setting block	P.H. Tech
12	9502	Button	P.H. Tech
13	9501-R	Tilt latch assembly (Right)	P.H. Tech
14	9501-L	Tilt latch assembly (Left)	P.H. Tech
15	5781	Meeting rail covering cap	P.H. Tech
16	5751	Sash profile	P.H. Tech
17	9755	No. 8 x 5/8", truss head, Quadrex screw.	P.H. Tech
18	9825	No. 10-12 x 5/8", special No. 7 flat head, Quadrex screw.	P.H. Tech
19		Balance	Various
* 20	8932, x	Pivot shoe	P.H. Tech or Various
* 21	8931, 9514	Pivot bar (main, option)	P.H. Tech
* 22	5880, 5685	Sash Retainer (main, high)	P.H. Tech
* 23	3532, 3531	Main frame	P.H. Tech
24	9873	Corner block	P.H. Tech
25	9756	No. 8-18 x 1", flat head, Quadrex screw	P.H. Tech
26	5828	Balance cover	P.H. Tech
27	8868	Weatherstrip	Schlegel No PBAB-8325-187
28	9774	Weatherstrip	Schlegel #HF-7625-187 NAP #RPHF018726
29	9738	Sliding shoe	P.H. Tech
30	9854	No. 10-12 x 1/2", special No. 7 flat head, Quadrex screw.	P.H. Tech
31	9536	Sash Steel reinforcement	P.H. Tech
32	9753	No. 7 x 1/2" Flat Head, Quadrex, Self Drill. screw	P.H. Tech
34	5833	Screen Support - Low	P.H. Tech
* 35	5834	Screen Support - High	P.H. Tech
36		Screen	Various
* 37	9770	Vent lock	P.H. Tech

* = Options



PROJECT NO. ACE-2021-001

ECO GLASS, LLC
144 HOPE STREET
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TITLE:
SERIES S-3655 DOUBLE HUNG WINDOW
BILL OF MATERIALS & VERTICAL COMPONENT CROSS-SECTION

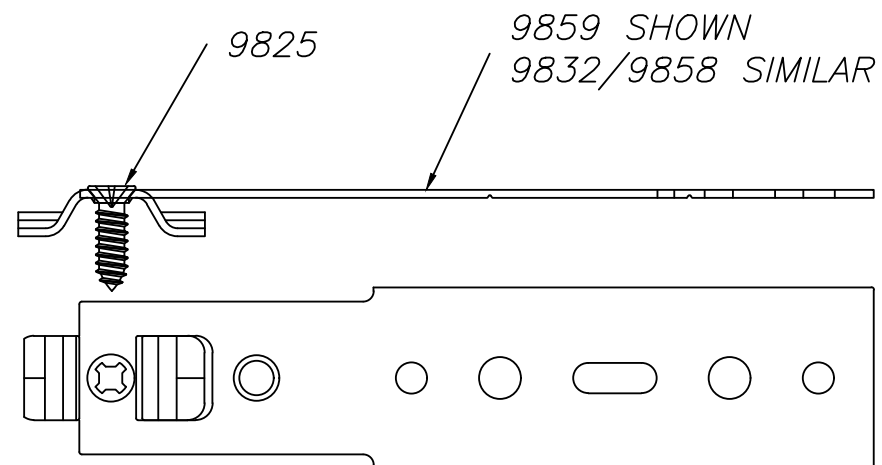
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SHEET: 8 OF 9

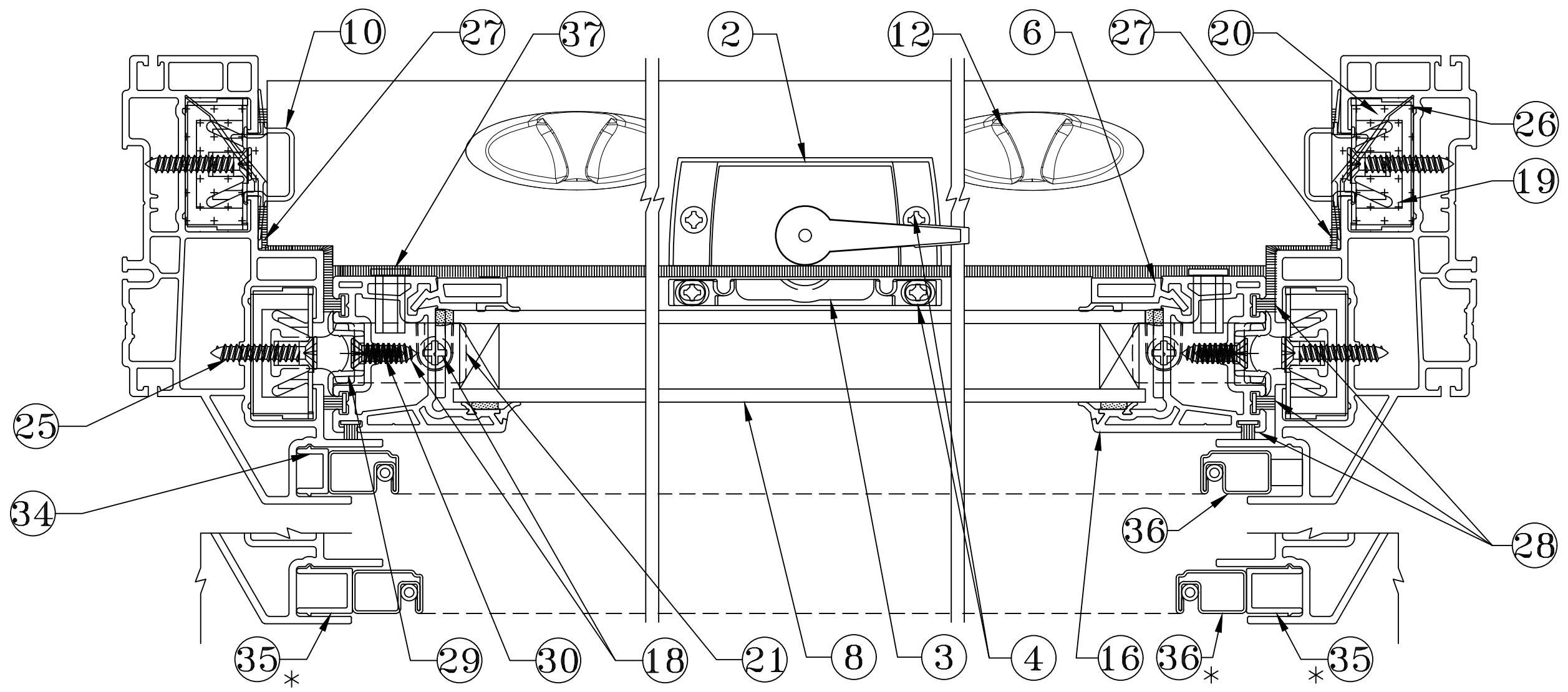
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INSTALLATION CLIP - 9859 SHOWN
9832 & 9858 SIMILAR
(CLIP LENGTH AND FASTENER HOLE PATTERN VARIES)



HORIZONTAL
CROSS SECTION B-B

PROJECT NO. ACE-2021-001					BY
					DATE
					DESCRIPTION
				REV	

ECO GLASS, LLC 144 HOPE STREET LONGWOOD, FL 32750	TITLE: SERIES S-3555 DOUBLE HUNG WINDOW HORIZONTAL COMPONENT CROSS-SECTIONS & CLIP			
	DRAWN BY: RJA	DATE: 3/3/2021	DRAWING NO: ECOGLOSS013	SHEET: 9 OF 9
	SCALE: N.T.S.	REV:		
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