

ECO GLASS LLC

SERIES S-7500 SLIDING GLASS DOOR (OXXO)

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-04220-C1 BY AIR-INS INC. (AN UL COMPANY) AND EQUIVALENCY TO AAMA/WDMA/CSA 101/I.S.2/A440-17 DOCUMENTED IN NAMI WAIVER OF RETEST NO. W-1971.
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:

7.0.1. INSULATING GLASS UNIT DESCRIPTION: 22.2 mm (0.87") O.A. COMPRISED OF 5MM (3/16") HS, AIR GAP 12.2MM (0.48").

7.0.2. 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.

7.1. 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.

7.2. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-12AE1.
8. PANEL OPERABILITY DESIGNATIONS:

8.1. X = OPERABLE

8.2. O = FIXED
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.

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INSTALLATION NOTES:

1. INSTALL INSTALLATION ANCHOR(S) AS INDICATED IN THE SECTION DETAILS ON SHEETS 5 THROUGH 8 AT EACH LOCATION SHOWN IN THE ELEVATION ON SHEET 3.

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

1.2. FOR DOORS SMALLER THAN THAT SHOWN IN SHEET 3 ELEVATION, ANCHOR QUANTITIES CAN BE REDUCED WHILE MAINTAINING THE ANCHOR SPACING AND EDGE DISTANCE SHOWN.

1.3. THE OXXO CONFIGURATION SHOWN ON SHEETS 2 AND 3 WAS TESTED. THE FOLLOWING CONFIGURATIONS ARE ALSO ACCEPTABLE: XO, OX, OXO, XOO, OOX, XXO, OXX AND OXO. FOR CONFIGURATIONS OTHER THAN OXXO, INSTALL USING THE SAME ANCHOR EDGE DISTANCE AND ON CENTER (O.C.) SPACING AS SHOWN ON SHEET 3.
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 NOMINAL DOOR SIZE (IN)	DESIGN PRESSURE RATING (PSF)	IMPACT RATING
139 X 96	30	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-2020-106

ECO GLASS, LLC

144 HOPE STREET

LONGWOOD, FL 32750

TITLE:

SERIES S-7500 SLIDING GLASS DOOR (OXXO)

INSTALLATION AND GENERAL NOTES

DRAWN BY:

RJA

DATE:

10/23/20

SCALE:

N.T.S.

REV:

ECO GLASS

ADVANCED FLORIDA WINDOW SOLUTION

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

BY

DATE

DESCRIPTION

REV

Robert J. Amoruso, P.E.

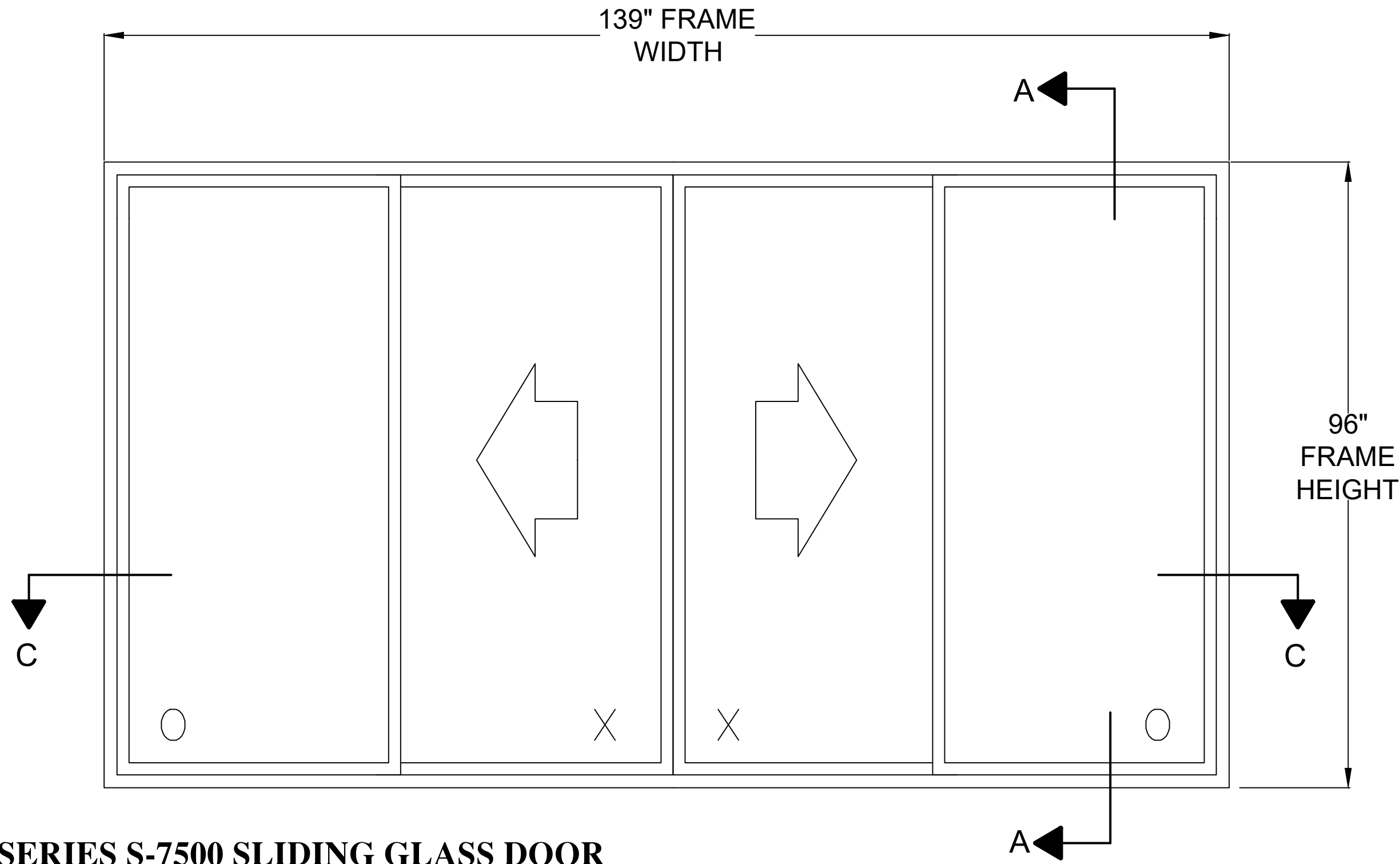
Florida P.E. No. 49752

12472 LAKE UNDERHILL RD.

SUITE NO. 148

ORLANDO, FL 32828

robert.amoruso@comcast.net



SERIES S-7500 SLIDING GLASS DOOR

OXXO

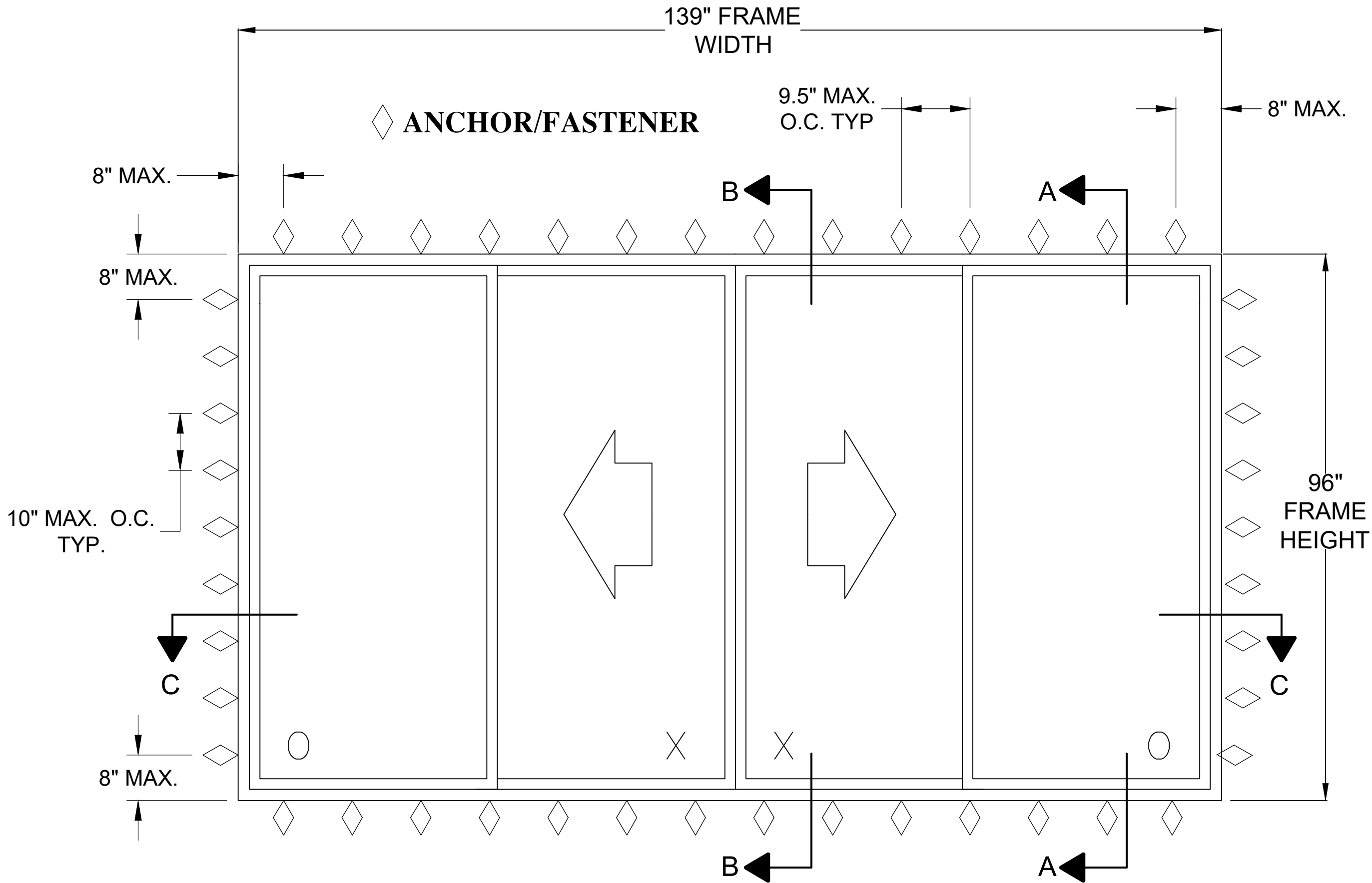
EXTERIOR VIEW

OXXO TESTED. XO, OX, OXO, XOO,
OOX, XXO, OXX AND OXO ENVELOPED.

MAXIMUM SIZES	
FRAME	139.41" X 96.06" (139" X 96" NOMINAL)
PANEL	35.63" X 91.81" (36" X 92" NOMINAL)
DLO - PANEL	29.13" X 85.43"

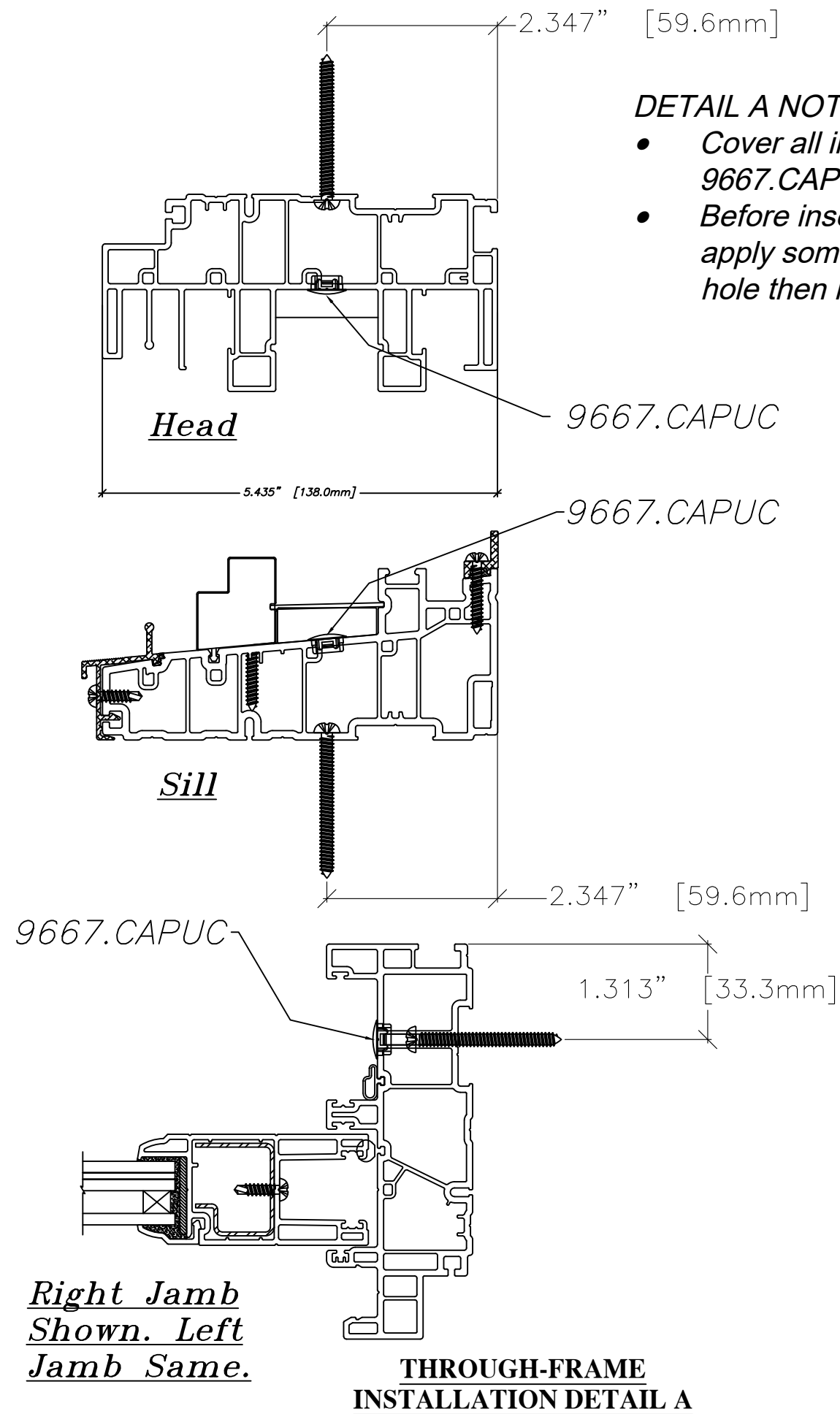
PROJECT NO. ACE-2020-106				REV	DESCRIPTION	DATE	BY

ECO GLASS, LLC 144 HOPE STREET LONGWOOD, FL 32750				DRAWN BY: RJA	DATE: 10/23/20
TITLE: SERIES S-7500 SLIDING GLASS DOOR (OXXO) EXTERIOR ELEVATION				SCALE: N.T.S.	DRAWING NO: ECOGLOSS010
321-207-0507 info@vk-ecoglass.com				REV: ---	SHEET: 2 OF 10



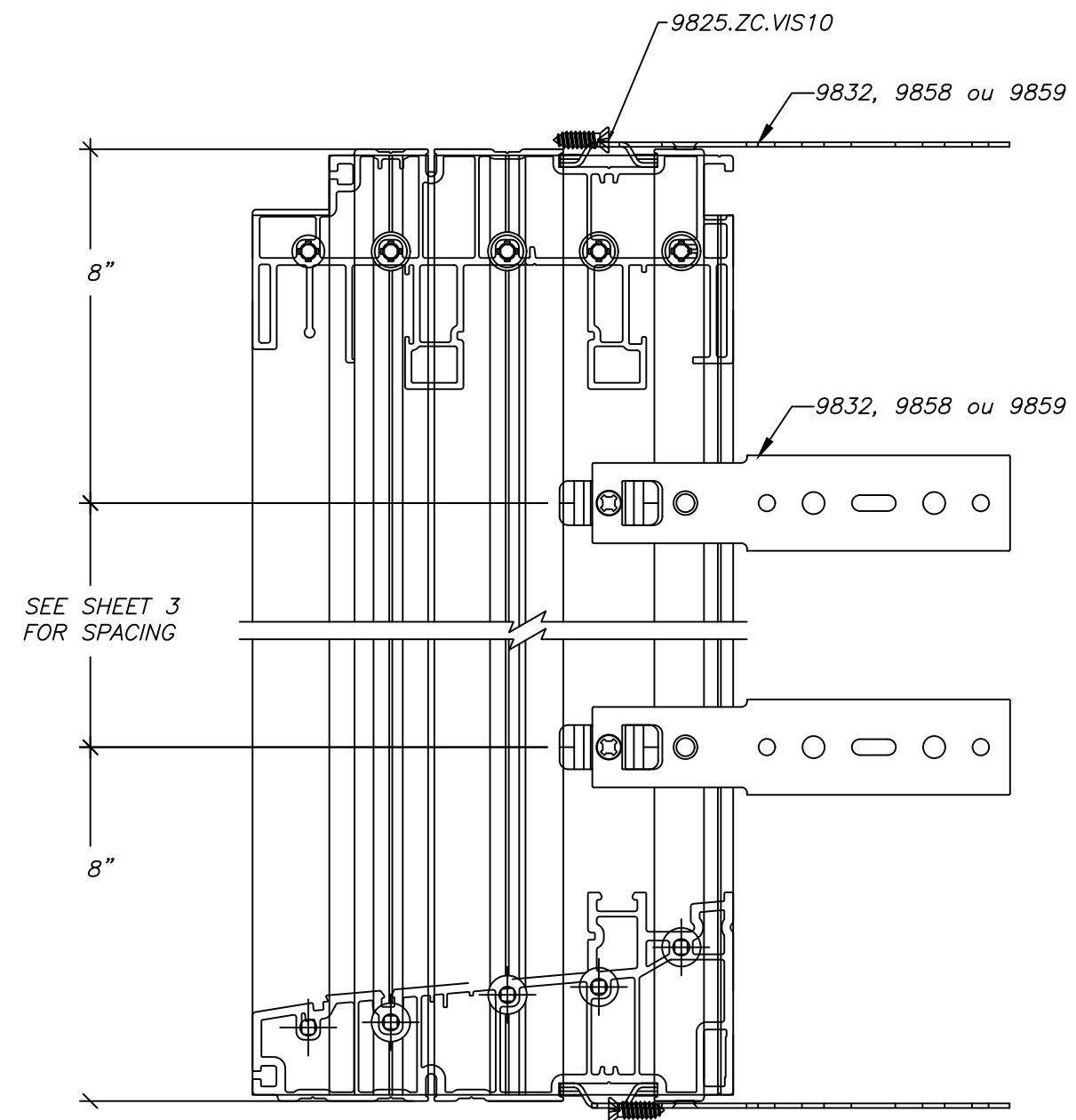
SERIES S-7500 SLIDING GLASS DOOR ANCHORAGE FOR OXXO
BLOCK/EQUAL LEG THROUGH FRAME and CLIP INSTALLATION

PROJECT NO. ACE-2020-106					BY
					DATE
					DESCRIPTION
ECO GLASS, LLC 144 HOPE STREET LONGWOOD, FL 32750	TITLE: SERIES S-7500 SLIDING GLASS DOOR (OXXO) EXTERIOR ELEVATION - ANCHORAGE	DRAWN BY: RJA	DATE: 10/23/20	DRAWING NO: ECOGLOSS010	REV:
		SCALE: N.T.S.	REV:	3 OF 10	
		321-207-0507 info@vk-ecoglass.com			
Robert J. Amoruso, P.E. Florida P.E. No. 49752					
12472 LAKE UNDERHILL RD. SUITE NO. 148 ORLANDO, FL 32828 robert.amoruso@comcast.net					



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.



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144 HOPE STREET
LONGWOOD, FL 32750

SERIES S-7500 SLIDING GLASS DOOR (OXO)
INSTALLATION DETAILS A & B

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

DATE: 10/23/20
DRAWING NO: ECOGLASS010
SHEET: 4 OF 10



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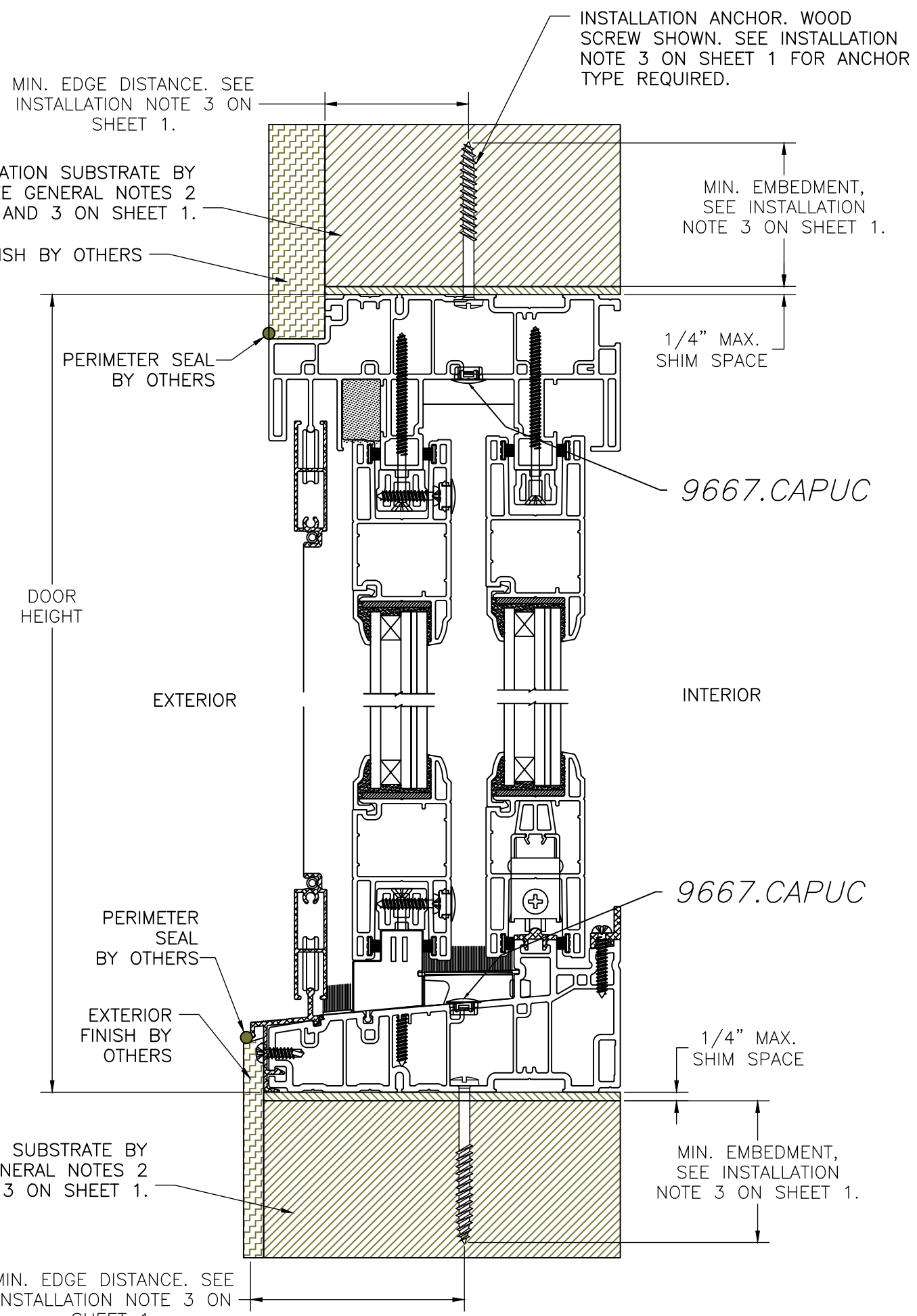
12472 LAKE UNDERHILL RD.
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**VERTICAL CROSS SECTION A-A
THROUGH FRAME INSTALLATION**
WOOD FRAMING, 2X WOOD BUCK,
CONCRETE/MASONRY OR STEEL STUD APPROVED
(CROSS SECTION B-B INSTALLATION SAME)

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

SEE SHEET 4,
INSTALLATION DETAIL A
FOR THROUGH FRAME
ANCHOR DETAILS

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



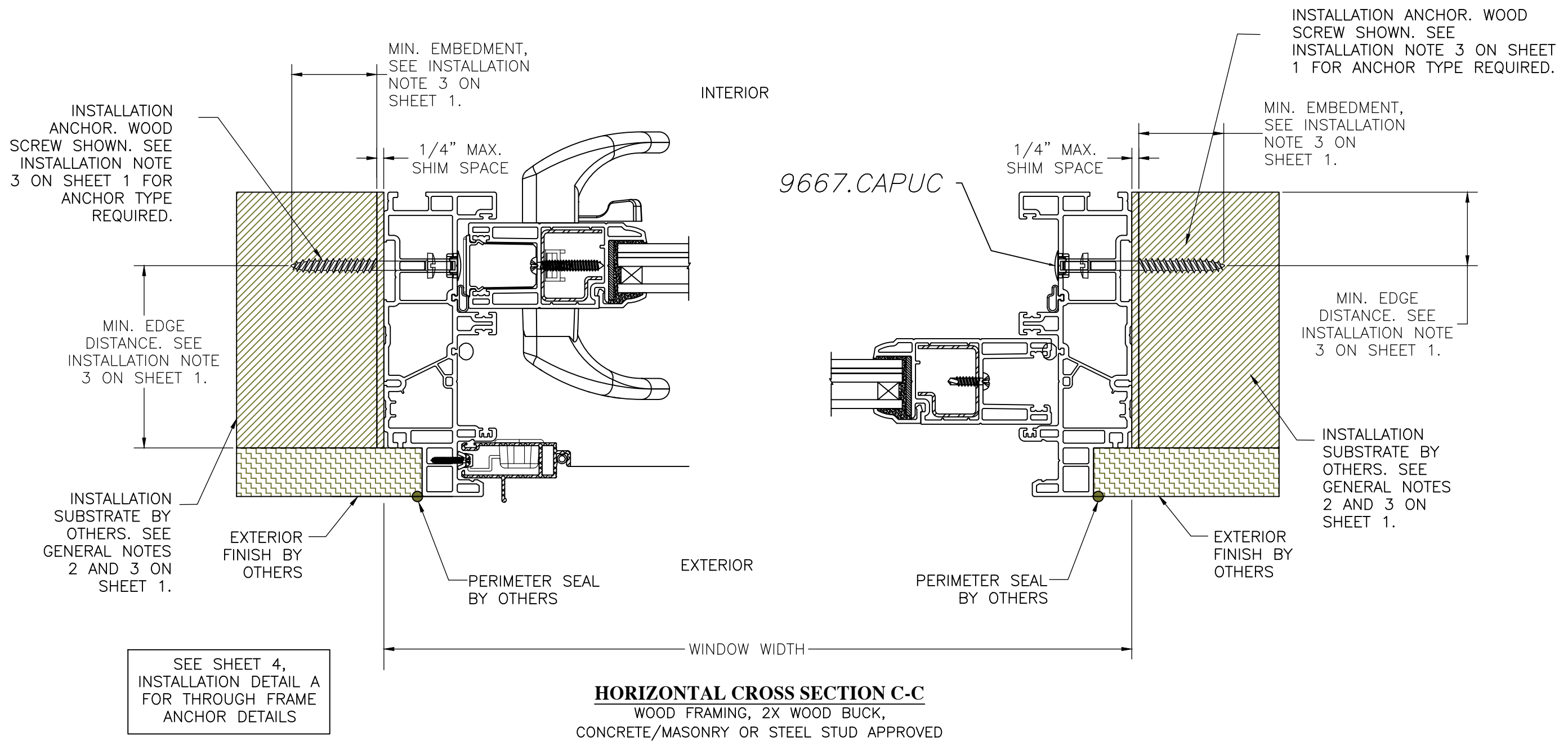
PROJECT NO. ACE-2020-106				BY
				DATE
				DESCRIPTION
			REV	

ECO GLASS, LLC 144 HOPE STREET LONGWOOD, FL 32750				DRAWN BY: RJA	DATE: 10/23/20
TITLE: SERIES S-7500 SLIDING GLASS DOOR (OXXO) VERTICAL SECTION A - THROUGH FRAME INSTALLATION				SCALE: N.T.S.	DRAWING NO: ECOGLOSS010
				REV: ---	SHEET: 5 OF 10



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PROJECT NO. ACE-2020-106

ECO GLASS, LLC
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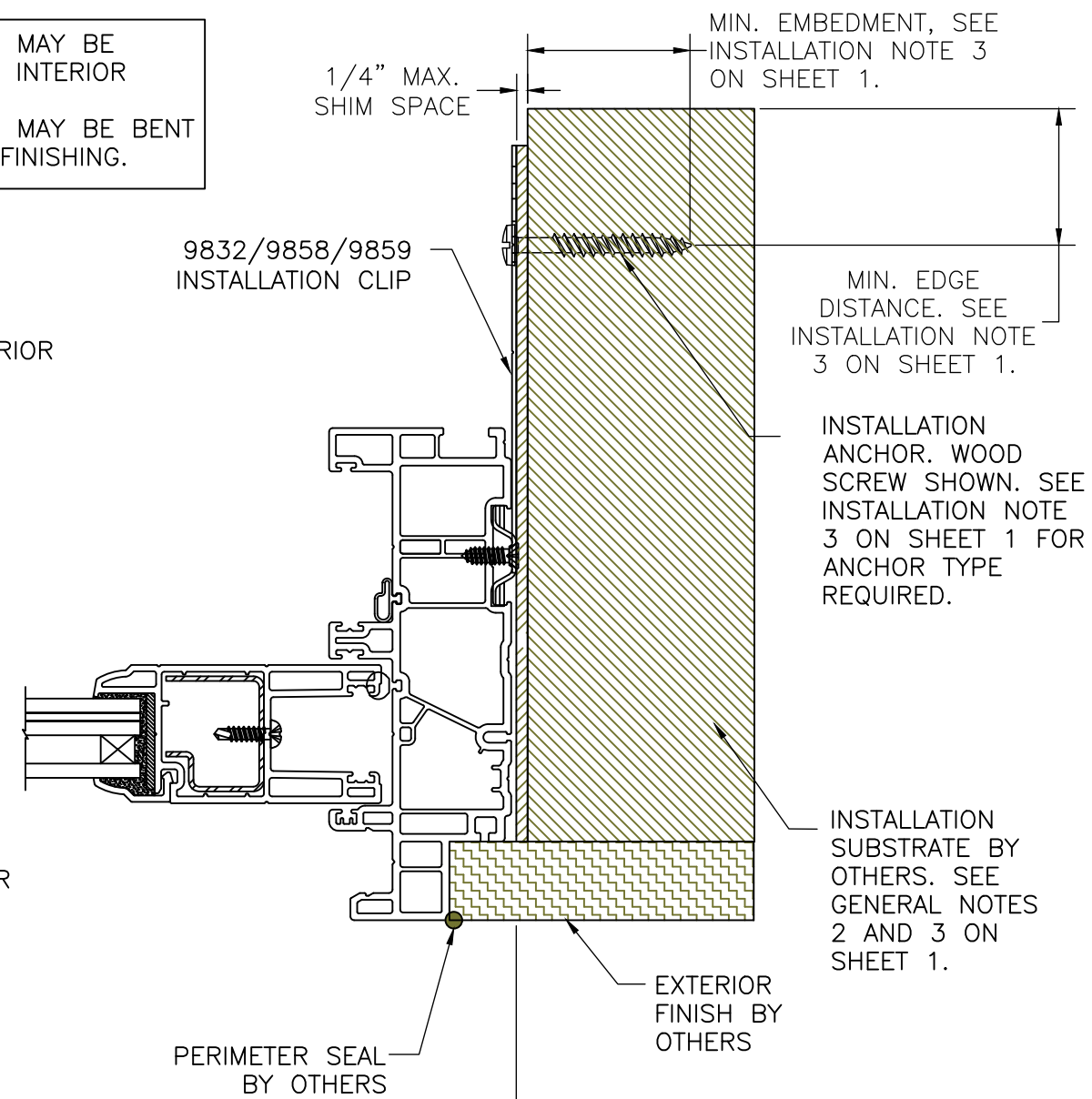
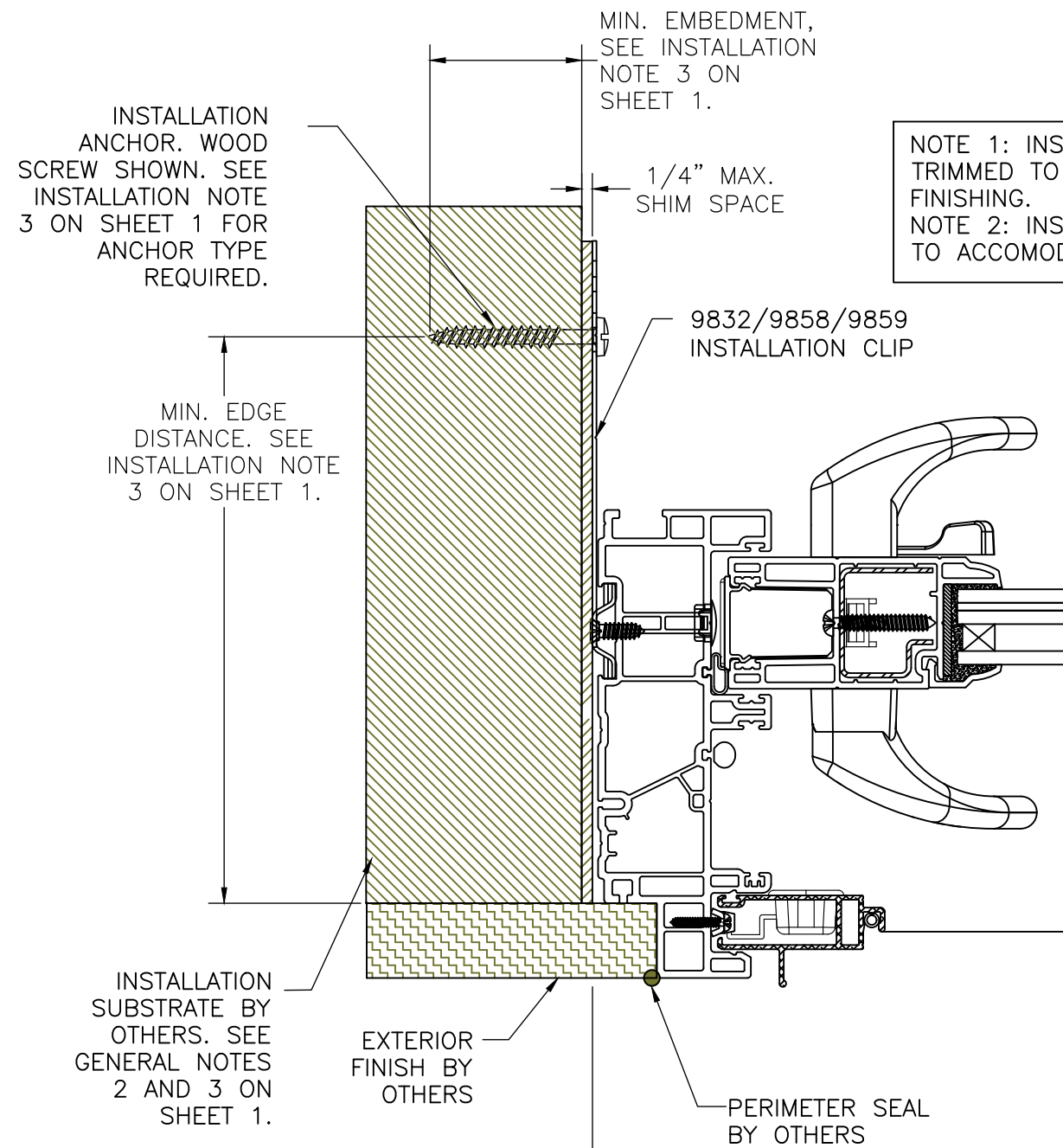
TITLE: SERIES S-7500 SLIDING GLASS DOOR (OXO)
HORIZONTAL SECTION C - THROUGH FRAME INSTALLATION

DRAWN BY: RJA
DATE: 10/23/20
SCALE: N.T.S.
DRAWING NO: ECOGLASS010
SHEET: 7 OF 10

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

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

PROJECT NO. ACE-2020-106

ECO GLASS, LLC
144 HOPE STREET
LONGWOOD, FL 32750

TITLE: SERIES S-7500 SLIDING GLASS DOOR (OXO)
HORIZONTAL SECTION C - CLIP INSTALLATION

DRAWN BY: RJA
SCALE: N.T.S.
DATE: 10/23/20
DRAWING NO: ECOGLASS010
SHEET: 8 OF 10
REV: ---



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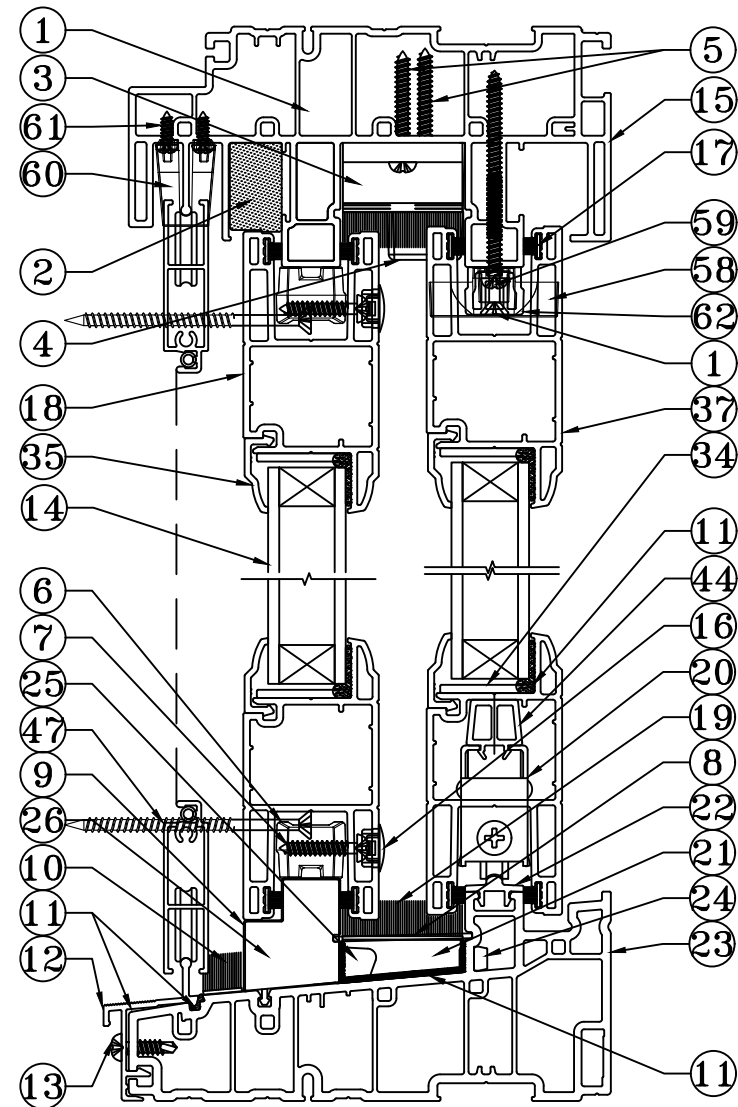
Item	PART No.	Item Description	Source
1	9619	No. 8 x 2 3/4", flat head, Quadrex, Wood screw.	P.H. Tech
2	9853	Insect stop 1" x 1" x 3/4"	P.H. Tech
3	703	Head Weatherseal	P.H. Tech
4	8940	Sash stopper	P.H. Tech
5	8941	No. 8 x 1 1/4", Pan head, Quadrex screw	P.H. Tech
6	7003	Fixed sash anchor block	P.H. Tech
7	9876	No. 8 x 7/8", Pan head, Quadrex screw	P.H. Tech
8	723	Sill dust cover	P.H. Tech
9	701	Fixed sash support	P.H. Tech
10	9569	Insect stop	Schlegel No PBAB-8445-270
11		Sealant	Various
12	9991	Outside sill cladding	P.H. Tech
13	9867	No. 8 x 5/8", Pan head, Quadrex, self-drilling screw.	P.H. Tech
14		Glass	P.H. Tech
15	7002	Head profile	P.H. Tech
16	9667	Screw Cap	P.H. Tech
17	9550	Weatherstrip	Schlegel No HF-7522-270
18	7508-F	Fixed horizontal rail	P.H. Tech
19	9551	Weatherstrip	Schlegel No DPAB-1.350 x 0.437
20	9732	Tandem Wheel	P.H. Tech (Truth)
21	710-BLM66	Sill weatherseal	P.H. Tech
22	9790	Sliding panel rail	P.H. Tech
23	7000	Sill	P.H. Tech
24	9734	Weep hole plug	P.H. Tech
25	9808	Weep hole cover	P.H. Tech
26	9670/9671	Left/Right cap for fixed sash support	P.H. Tech
27	7523	Sash covering cap	P.H. Tech
28	9150-CAPUC	Lock plug	P.H. Tech
29	9599	Center stile steel reinforcement	P.H. Tech
30	7506	Center stile	P.H. Tech
31	7026	Interlock	P.H. Tech
32	8842	Sliding cap	P.H. Tech
33	9796	No. 8 x 5/8", Pan head, Quadrex screw	P.H. Tech
34	8933	Setting block	P.H. Tech
* 35	5775 5770/5771/5772 5793/5794/5796	Glazing bead	P.H. Tech
36	7547-F	Fixed side stile	P.H. Tech
37	7508-M	Mobile horizontal rail	P.H. Tech
38	9560	Weatherstrip	Schlegel No PB-8320-187
39	7004	Jamb profile	P.H. Tech
40	9571	Weatherstrip	Schlegel No PB-8420-270
41	9597	Mobile side stile steel reinforcement (OXXO)	P.H. Tech
42	7507-M	Mobile side stile (OXXO)	P.H. Tech
43	7042	Jamb cover	P.H. Tech
44	7541	Out.Bead Welded Sash Tandem Wheel Shim	P.H. Tech

* = Option

Item	PART No.	Item Description	Source
45	7005	Mullion	P.H. Tech
46	501	Weatherstrip	Schlegel Lozaron LDB100 109T
* 47	8926	Jamb Plug	P.H. Tech
48		Mullion block 0.815" x 0.445"	P.H. Tech
49		No. 8-10 x 1/2", pan head, Quadrex screw	P.H. Tech
50	715	Screen Mullion	P.H. Tech
51	9567	Weatherstrip	Schlegel PB8422-270
52	9748	Handle Kit	P.H. Tech (Roto Fasco)
* 53	9149/9249	Mortise Lock Kit /Keeper	P.H. Tech (Roto Fasco)
54		Screen	P.H. Tech
55	8960.GACHE	Screen Keeper	P.H. Tech
56	8962	No. 6 x 5/8" Pan head, Quadrex screw	P.H. Tech
57	9829	No. 8 x 2" Pan head, Quadrex screw	P.H. Tech
58	9719	4 Panel sash stopper	P.H. Tech (Roto Fasco)
59	9149	No. 8 x 1 1/4" Pan head, Quadrex screw	P.H. Tech (Roto Fasco)
60	9725	4 Panel head screen stopper	P.H. Tech (Roto Fasco)
61	8961	No. 6 x 3/8" Pan head, Quadrex screw	P.H. Tech (Roto Fasco)
62	7093	Mobile sash head track	P.H. Tech
63	9894	Mullion reinforcement (with welded sash)	P.H. Tech
64	8862	No. 8 x 1", Flate head, Phillips, self-drilling screw.	P.H. Tech

* = Option

VERTICAL CROSS SECTION A-A



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144 HOPE STREET
LONGWOOD, FL 32750

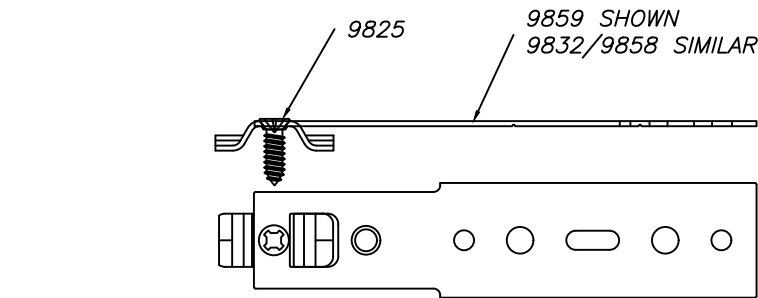
TITLE: SERIES S-7500 SLIDING GLASS DOOR (OXXO)
BILL OF MATERIALS & VERTICAL COMPONENT CROSS-SECTION



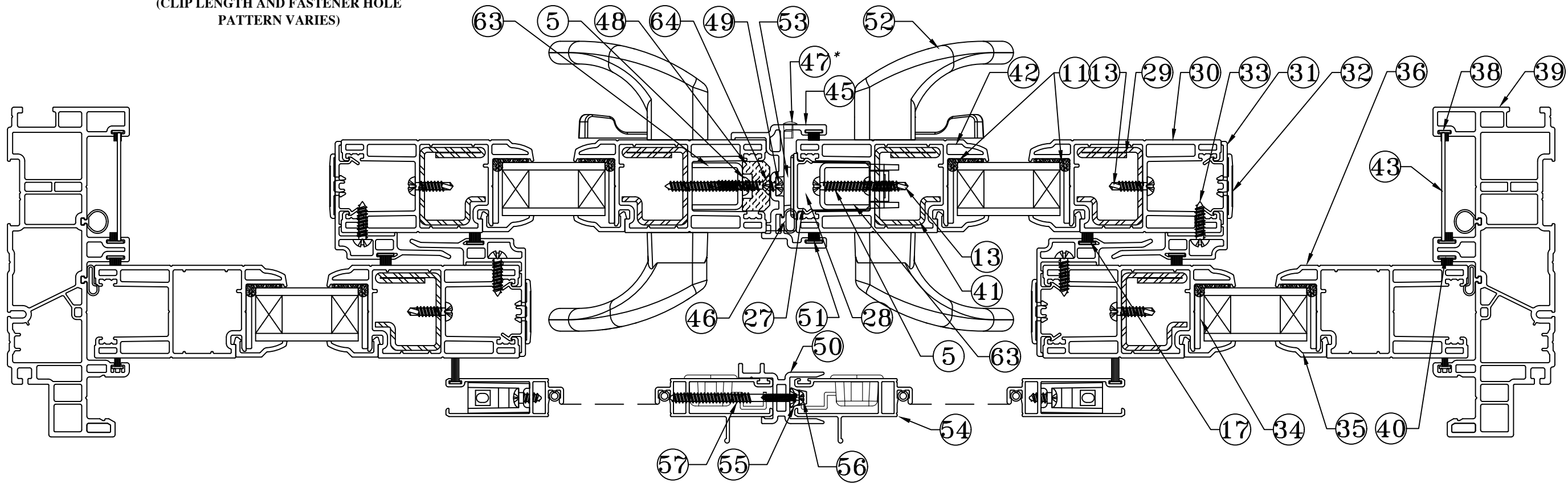
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INSTALLATION CLIP
9859 SHOWN
9832 & 9858 SIMILAR
(CLIP LENGTH AND FASTENER HOLE
PATTERN VARIES)



**HORIZONTAL
CROSS SECTION C-C**

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

ECO GLASS, LLC 144 HOPE STREET LONGWOOD, FL 32750				DRAWN BY: RJA	DATE: 10/23/20	DRAWING NO: ECOGLOSS010	SHEET: 10 OF 10
TITLE: SERIES S-7500 SLIDING GLASS DOOR (OXO) HORIZONTAL COMPONENT CROSS-SECTIONS & CLIP				SCALE: N.T.S.	REV:		
				321-207-0507 info@vk-ecoglass.com			

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