

ECO GLASS LLC

SERIES "NOVA" SLIDING GLASS DOOR (XO OR OX)

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/A440-17 DOCUMENTED IN TEST REPORT NO. T21-065 BY FENESTRATION TESTING LABORATORY, INC.
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 DESCRIPTION:

7.1.1. CONFIGURATION: 25.4 mm (1.0") O.A. COMPRISED OF 4MM (5/32") TEMPERED, AIR GAP 17.5MM (0.6875").

7.1.2. GLAZING METHOD: OUTSIDE GLAZED: DOUBLE-SIDED ADHESIVE FOAM TAPE; SETTING BLOCK 1/8" HIGH WAS SET AT QUARTER POINTS ON WIDE THE SILL. PVC SNAP-IN GLAZING STOP APPLIED FULL PERIMETER ON THE OUTSIDE OF THE IGU.

7.2. OVERALL (O.A.) THICKNESS AND AIR GAP CAN VARY BASED ON SPACER USED AND WILL NOT AFFECT GLAZING STRENGTH. GLASS THICKNESS CANNOT VARY EXCEPT AS ALLOWED IN 7.3 BELOW.

7.3. 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.

7.3.1. IN ACCORDANCE WITH AAMA/WDMA/CSA 101/I.S.2/A440-17, SECTION 10.2.3.4.1, PRODUCTS TESTED WITH INSULATING GLAZING SHALL NOT QUALIFY THAT PRODUCT WHEN GLAZED WITH SINGLE GLAZING.

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

8.2. X = OPERABLE

8.3. 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 4 THROUGH 7 AT EACH LOCATION SHOWN IN THE ELEVATIONS ON SHEET 2 & 3.

1.1. LOCATION TOLERANCE IS +/- 1/2". EDGE ANCHORS FOR THROUGH FRAME INSTALLATION LOCATION TOLERANCE IS +/- 1" TO ALLOW FOR FRAME CLEARANCE OF INSTALLATION ANCHOR.

1.2. FOR DOORS SMALLER THAN THAT SHOWN IN SHEET 2 & 3 ELEVATIONS, ANCHOR QUANTITIES CAN BE REDUCED WHILE MAINTAINING THE ANCHOR SPACING AND EDGE DISTANCE SHOWN.

1.3. THE XO OR OX CONFIGURATION SHOWN ON SHEETS 2 AND 3 WERE TESTED. NO ADDITIONAL CONFIGURATIONS ARE ALLOWED IN ACCORDANCE WITH AAMA/WDMA/CSA 101/I.S.2/A440-17.
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)	WEEP COVERS	DESIGN PRESSURE RATING (PSF)	IMPACT RATING
96 X 96	WITH GATED WEEP COVERS	20	NONE
	WITH NO WEEP COVERS	25	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-2021-127

ECO GLASS, LLC
144 HOPE STREET
LONGWOOD, FL 32750

TITLE: SERIES "NOVA" SLIDING GLASS DOOR (XO OR OX)
INSTALLATION AND GENERAL NOTES

DRAWN BY: RJA

DATE: 12/30/21

SCALE: N.T.S.

DRAWING NO: ECOGLASS017

REV: ---

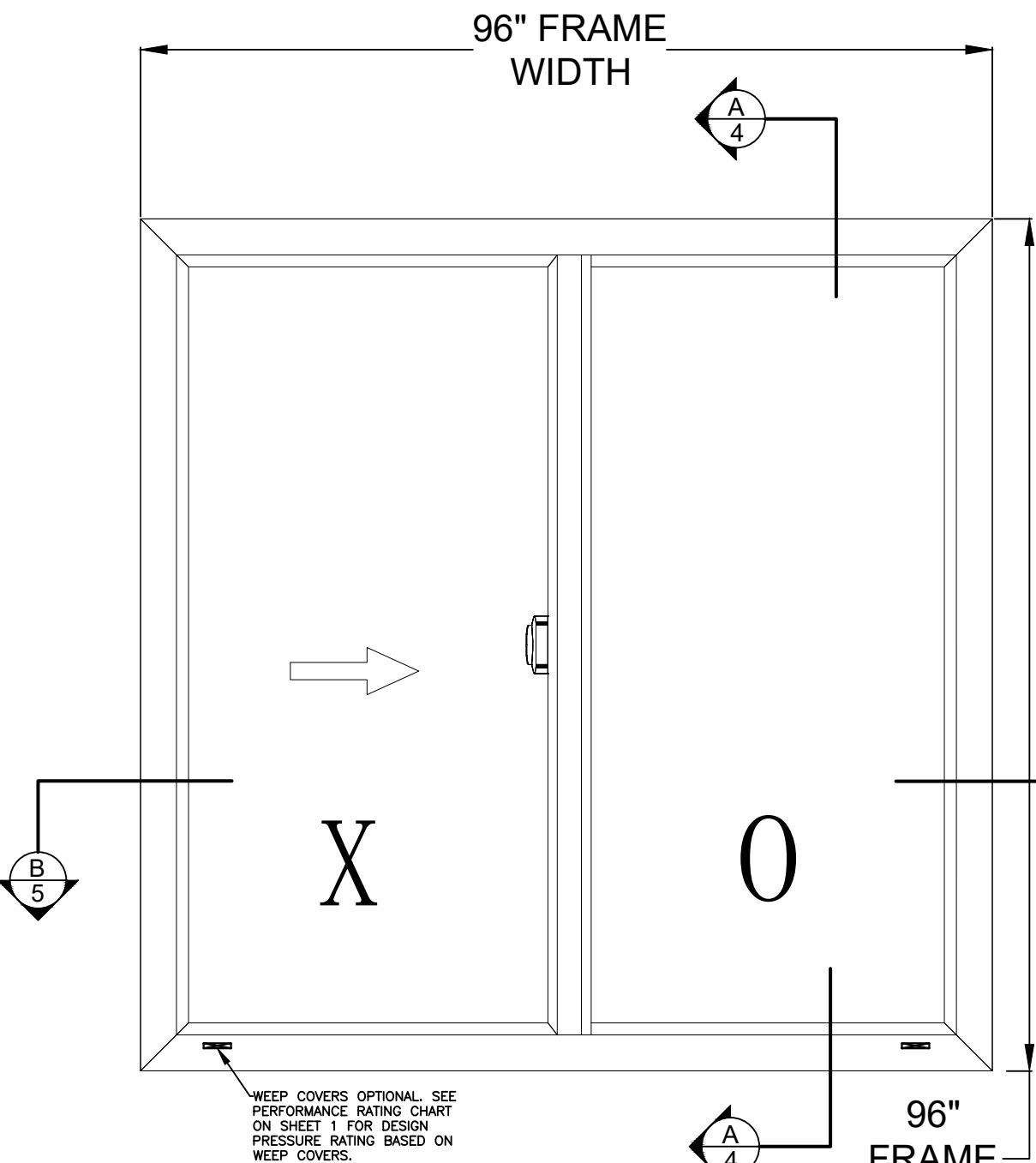
SHEET: 1 OF 10



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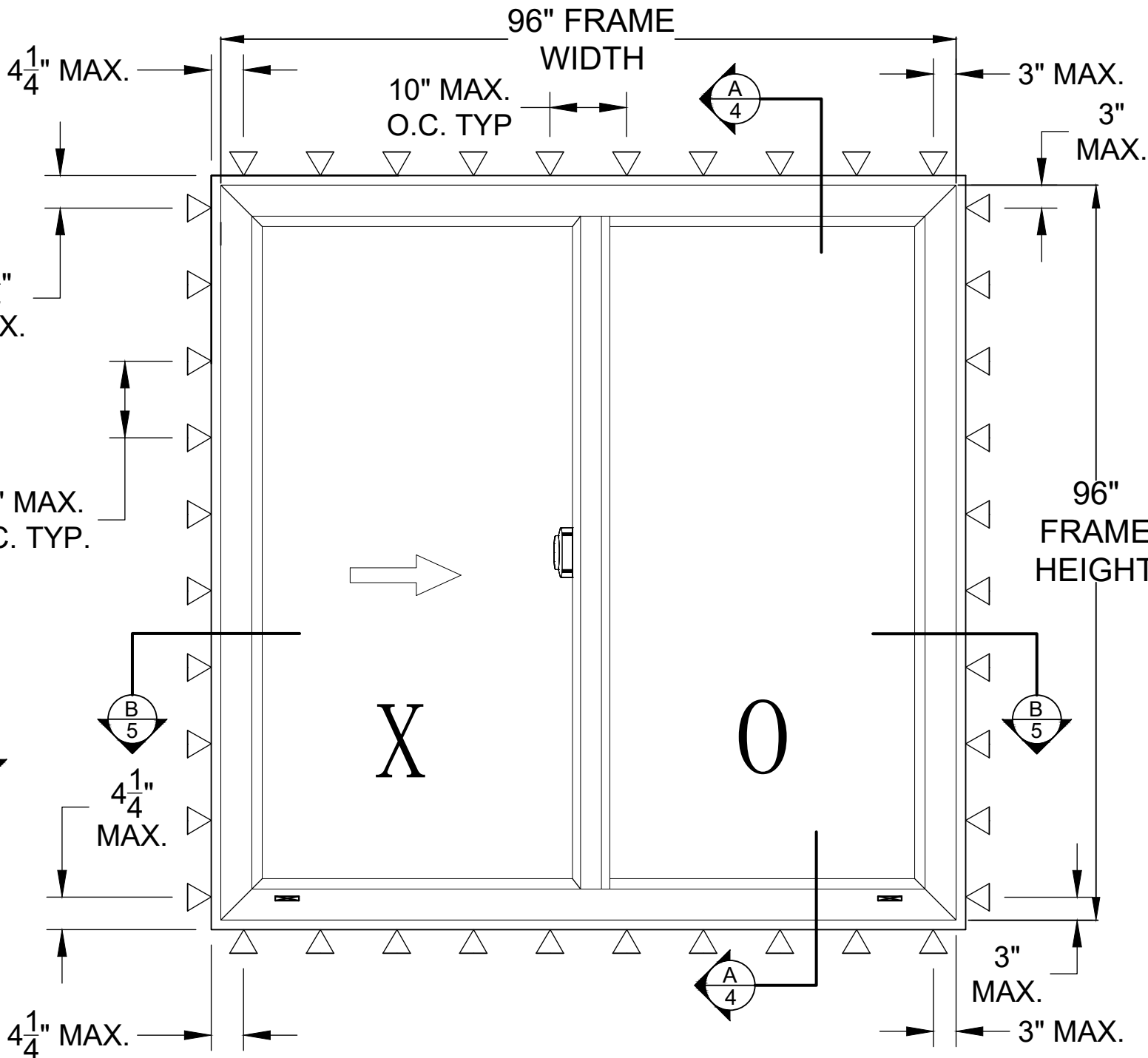
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**SERIES "NOVA" SLIDING
GLASS DOOR
XO OR OX**
EXTERIOR VIEW

MAXIMUM SIZES	
FRAME	96" X 96"
PANEL	48.25" X 93.5"
DLO - PANEL (APPROXIMATE)	42.4" X 87.6"



**SERIES "NOVA" SLIDING GLASS DOOR
XO OR OX**

ANCHORAGE ELEVATION - EXTERIOR VIEW
FIN FRAME INSTALLATION

 **FIN FRAME ANCHOR/FASTENER**

NAILING FIN ANCHORS ARE 4-1/4" FROM FIN
EDGE AND 3" FROM FRAME EDGE. FIN IS
1-1/4" WIDE WITH 10" MIN. OC SPACING.

PROJECT NO. ACE-2021-127

				BY
				DATE
				DESCRIPTION
			REV	

ECO GLASS, LLC
144 HOPE STREET
LONGWOOD, FL 32750

TITLE: SERIES "NOVA" SLIDING GLASS DOOR (XO OR OX)
EXTERIOR ELEVATION - FIN FRAME INSTALLATION

DRAWN BY: RJA
SCALE: N.T.S.
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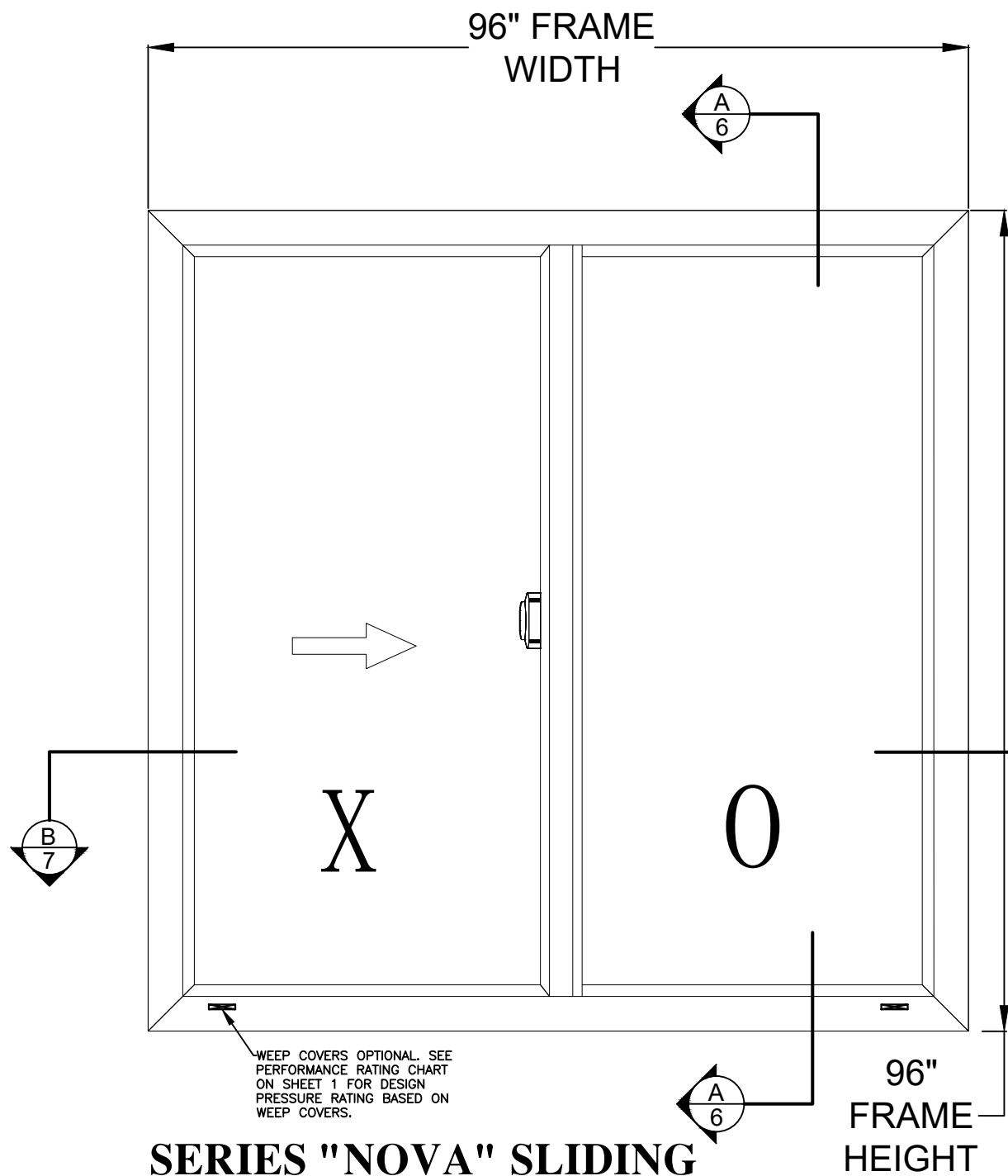
DATE: 12/30/21
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SHEET: 2 OF 10



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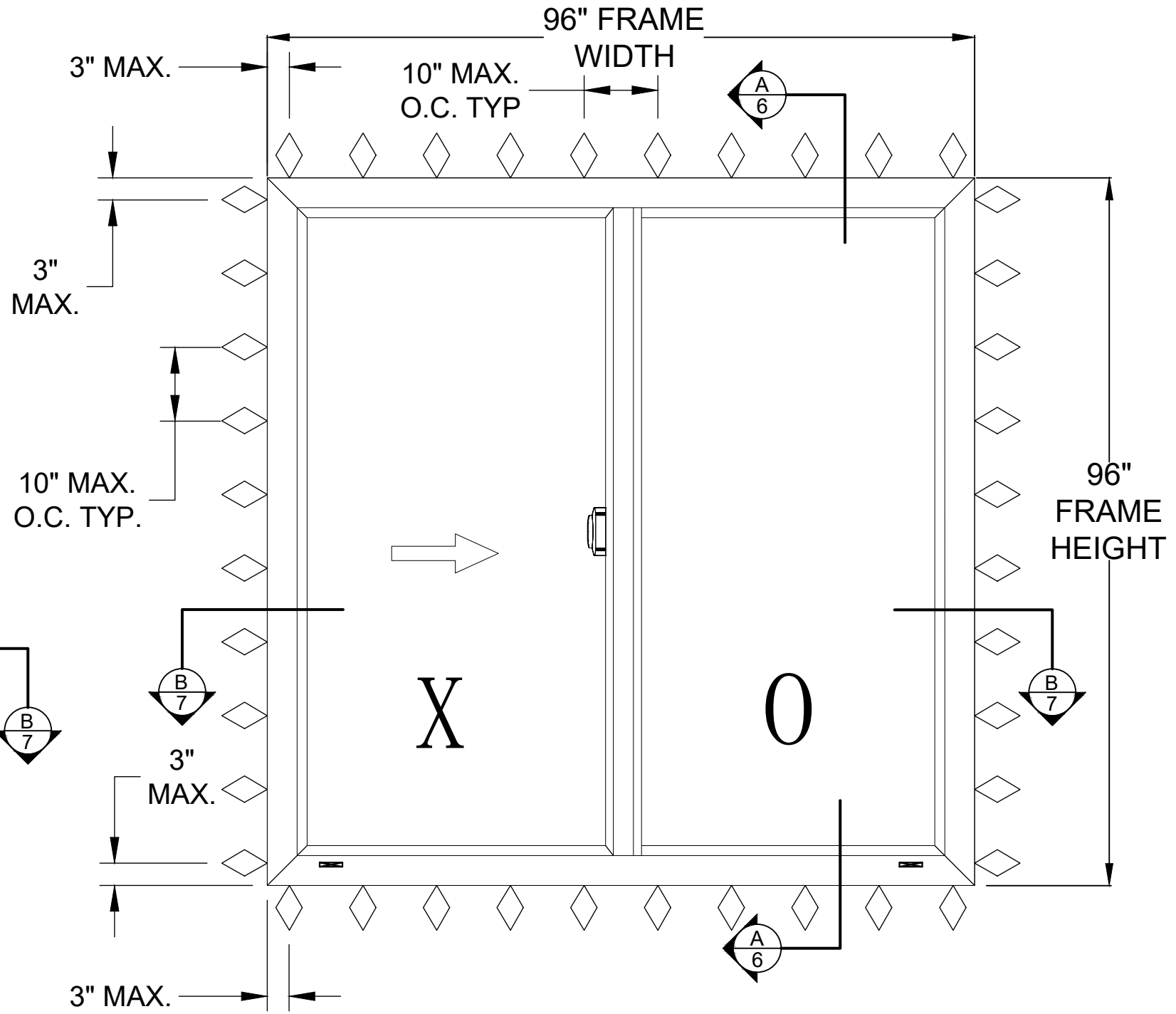
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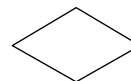
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GLASS DOOR
XO OR OX**
EXTERIOR VIEW

MAXIMUM SIZES	
FRAME	96" X 96"
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**SERIES "NOVA" SLIDING GLASS DOOR
XO OR OX**

ANCHORAGE ELEVATION - EXTERIOR VIEW
THROUGH FRAME INSTALLATION



THROUGH FRAME ANCHOR/FASTENER

PROJECT NO. ACE-2021-127

				BY
				DATE
				DESCRIPTION
			REV	

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LONGWOOD, FL 32750

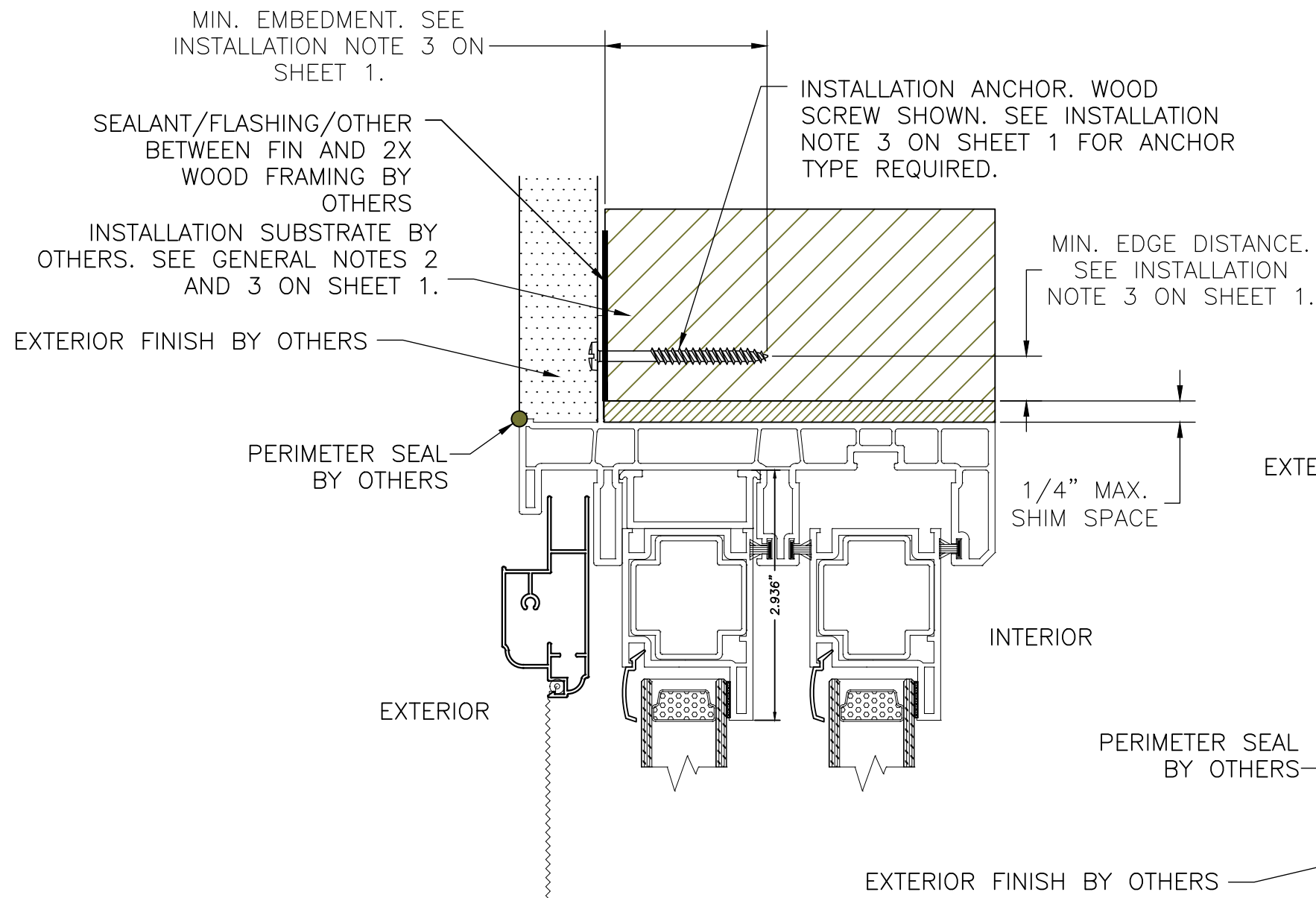
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SERIES "NOVA" SLIDING GLASS DOOR (XO OR OX)
EXTERIOR ELEVATION - THROUGH FRAME INSTALLATION

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SHEET: 3 OF 10

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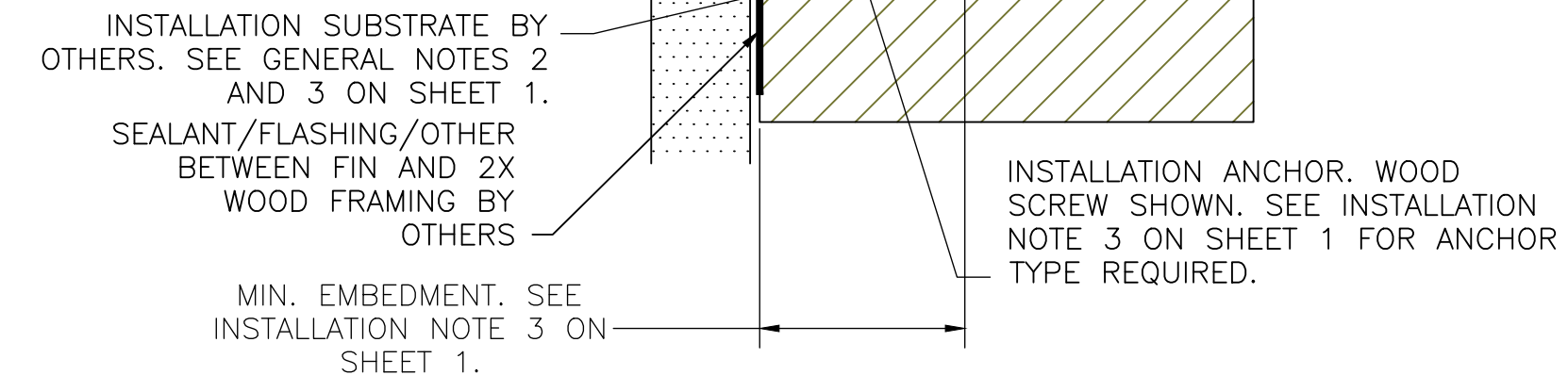
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A
4

HEAD VERTICAL CROSS SECTION A-A
FIN FRAME INSTALLATION
WOOD FRAMING, 2X WOOD BUCK OR STEEL
STUD APPROVED



A
4

SILL VERTICAL CROSS SECTION A-A
FIN FRAME INSTALLATION
WOOD FRAMING, 2X WOOD BUCK OR STEEL
STUD APPROVED

PROJECT NO. ACE-2021-127

ECO GLASS, LLC
144 HOPE STREET
LONGWOOD, FL 32750

TITLE: SERIES "NOVA" SLIDING GLASS DOOR (XO OR OX)
VERTICAL SECTION A-A, FIN FRAME INSTALLATION

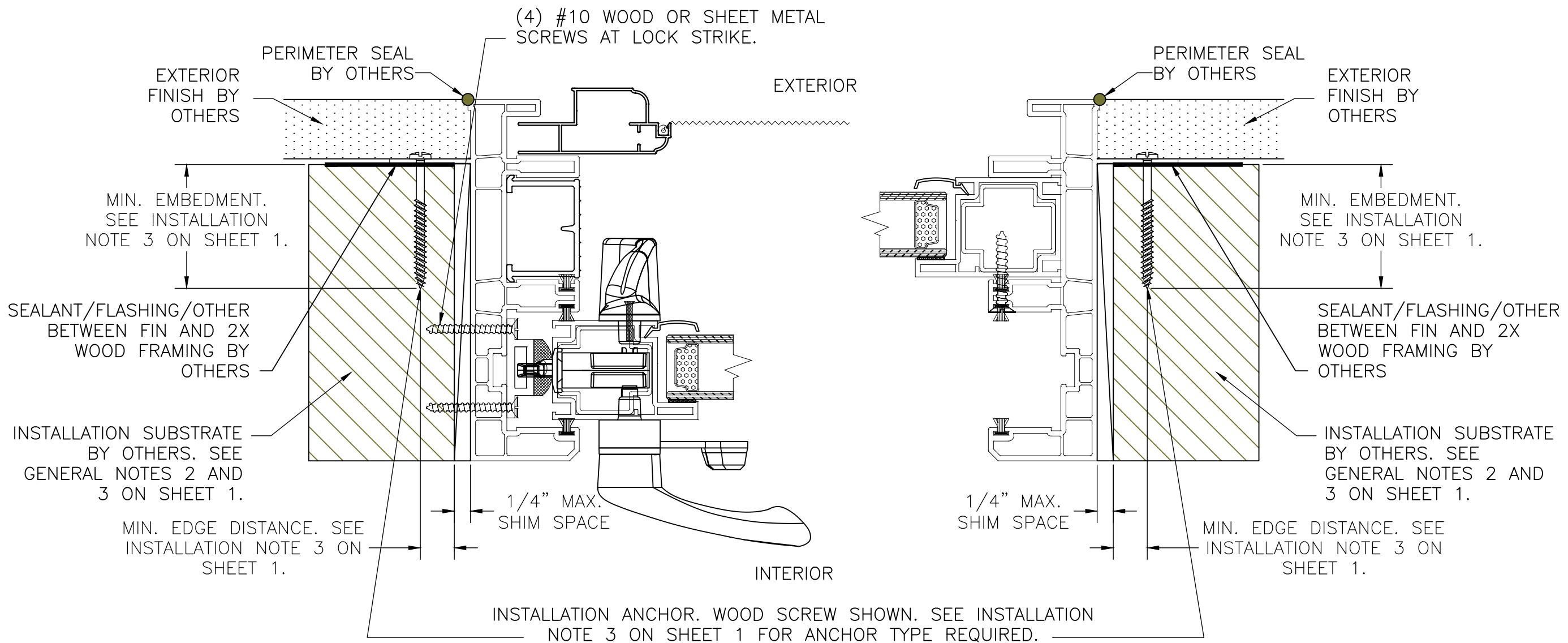
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DATE: 12/30/21

SCALE: N.T.S.
DRAWING NO: ECOGLASS017

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SHEET: 4 OF 10



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B
5

LEFT AND RIGHT JAMB
HORIZONTAL CROSS SECTION B-B
FIN FRAME INSTALLATION
WOOD FRAMING, 2X WOOD BUCK OR STEEL
STUD APPROVED

PROJECT NO. ACE-2021-127

ECO GLASS, LLC
144 HOPE STREET
LONGWOOD, FL 32750

TITLE: SERIES "NOVA" SLIDING GLASS DOOR (XO OR OX)
HORIZONTAL SECTION B-B, FIN FRAME INSTALLATION

DRAWN BY: RJA

DATE: 12/30/21

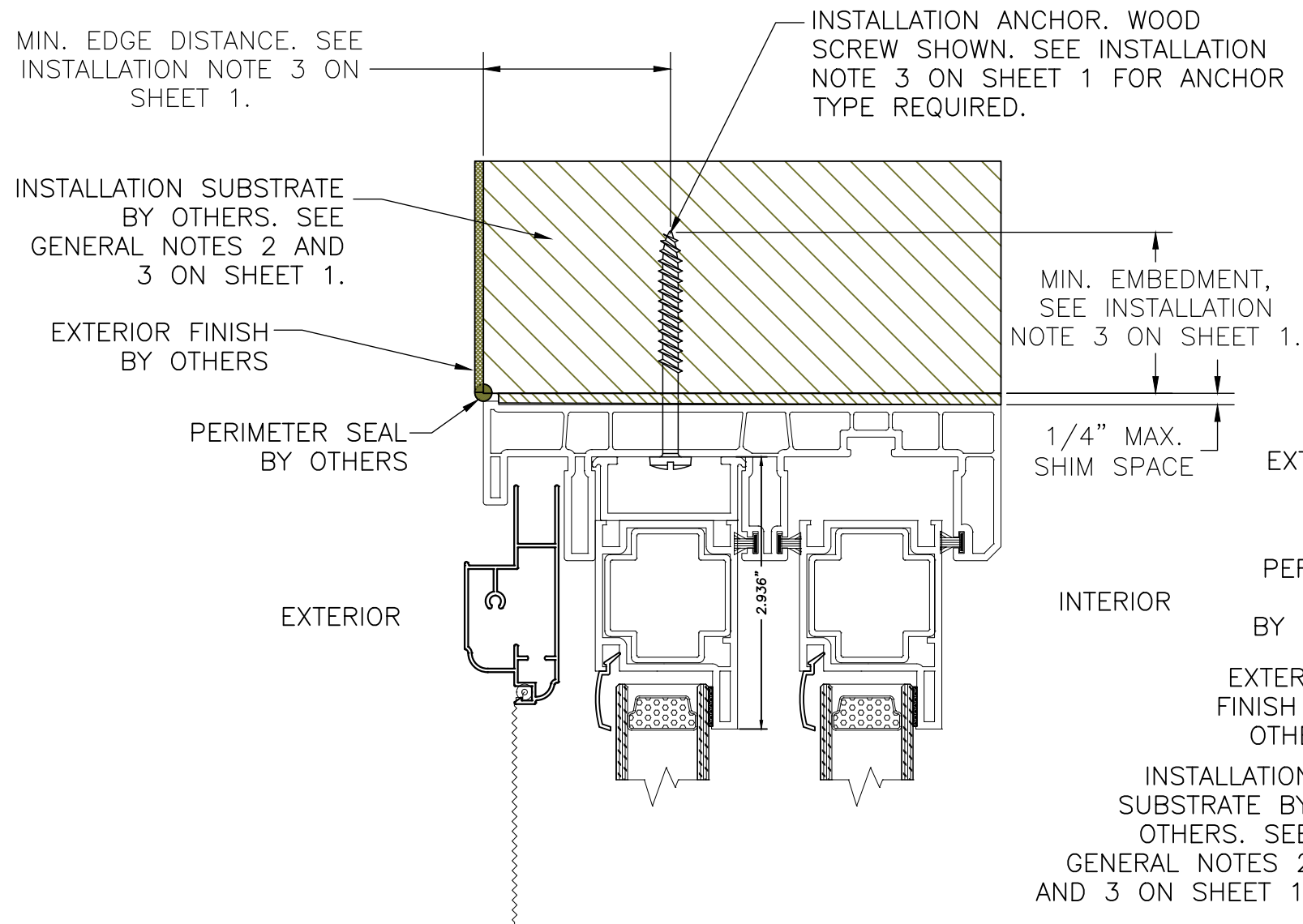
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SHEET: 5 OF 10



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A
6

**HEAD VERTICAL CROSS SECTION A-A
FIN FRAME INSTALLATION**

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

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

A
6

**SILL VERTICAL CROSS SECTION A-A
FIN FRAME INSTALLATION**

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

1/4" MAX.
SHIM SPACE
MIN. EMBEDMENT,
SEE INSTALLATION
NOTE 3 ON SHEET 1.

PROJECT NO. ACE-2021-127

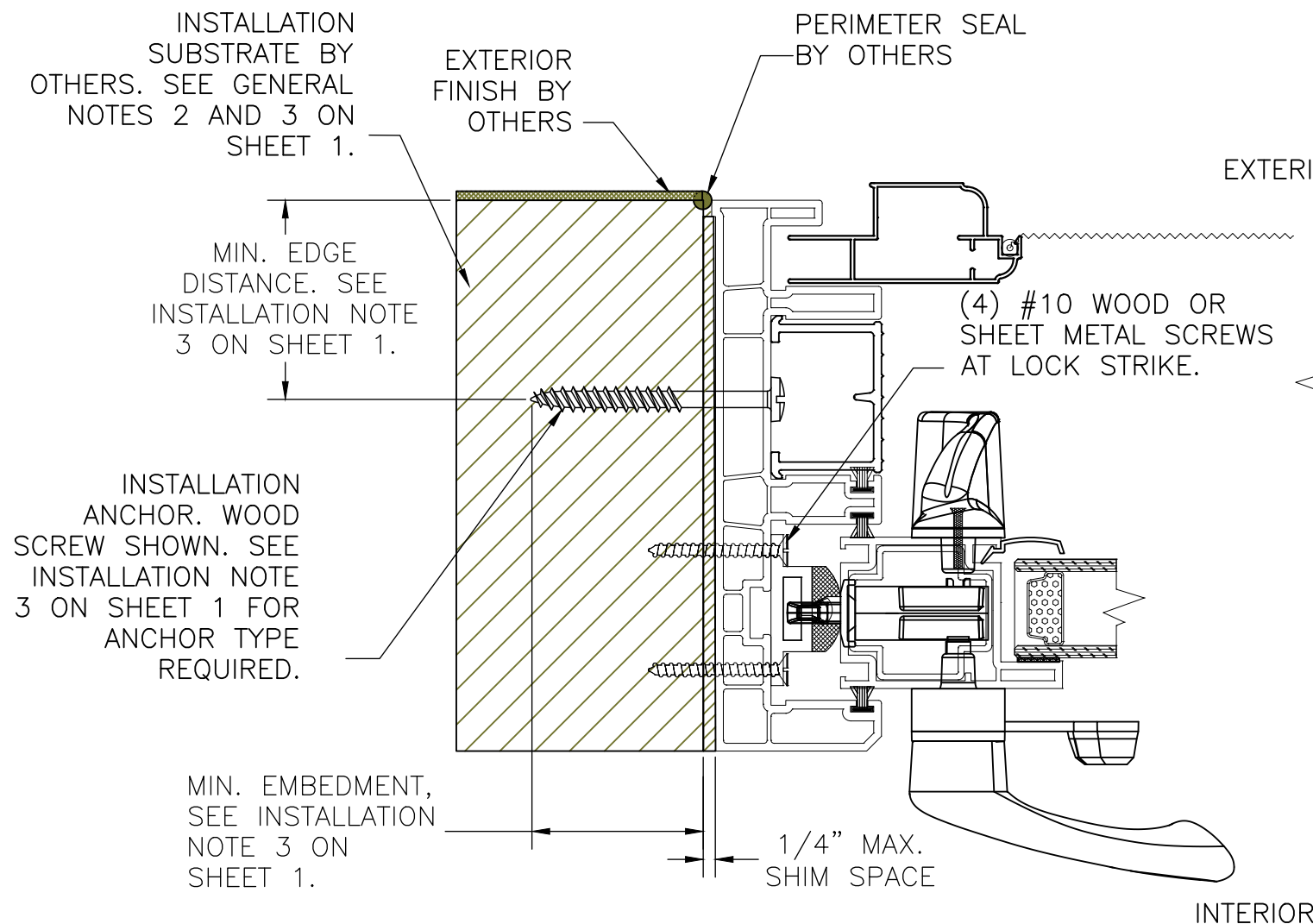
ECO GLASS, LLC
144 HOPE STREET
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TITLE: SERIES "NOVA" SLIDING GLASS DOOR (XO OR OX)
VERTICAL SECTION A-A, THROUGH FRAME INSTALLATION

DRAWN BY: RJA
DATE: 12/30/21
SCALE: N.T.S.
DRAWING NO: ECOGLASS017
REV: ---
SHEET: 6 OF 10

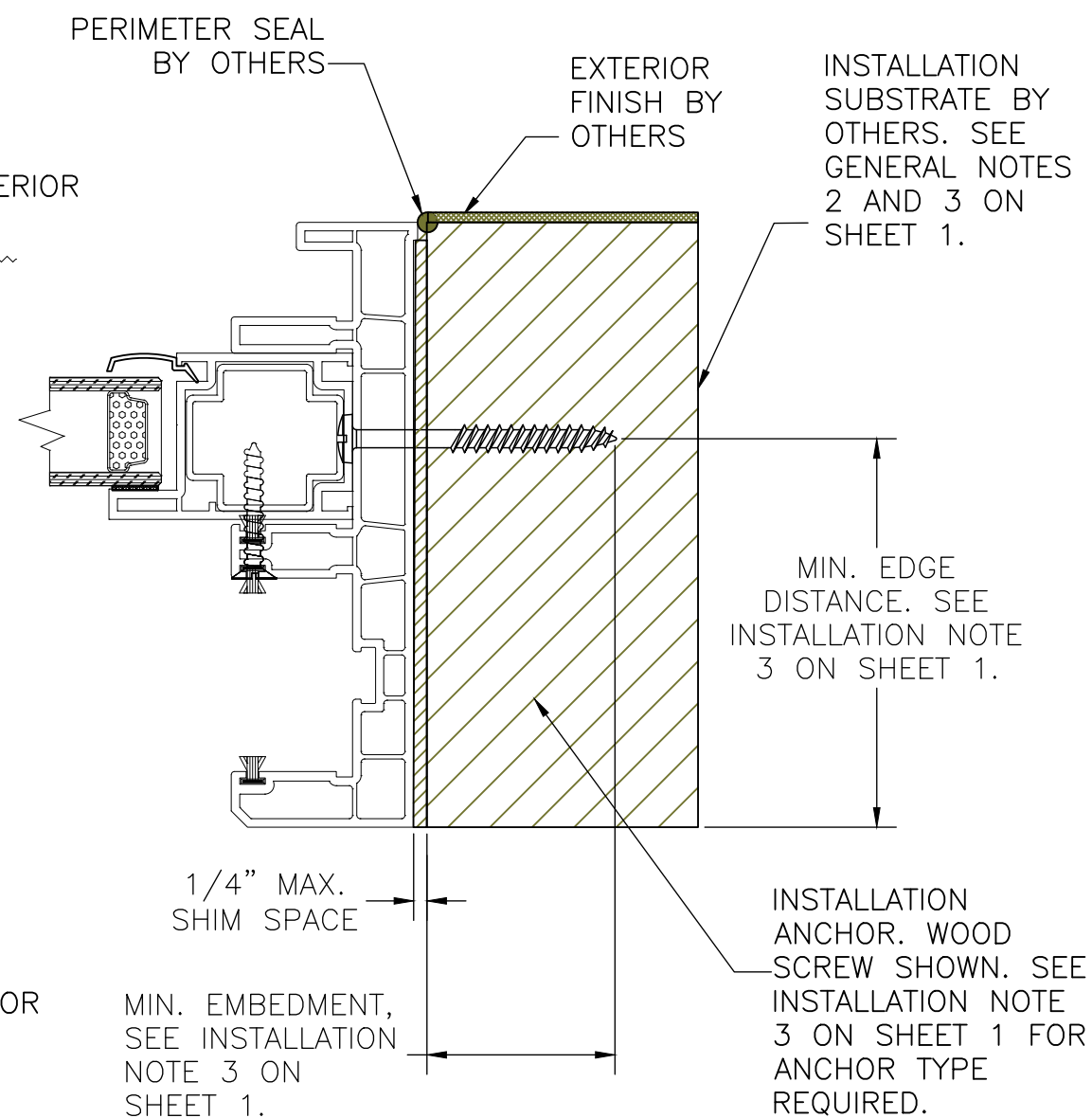


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B
7

LEFT AND RIGHT JAMB
HORIZONTAL CROSS SECTION B-B
THROUGH FRAME INSTALLATION
WOOD FRAMING, 2X WOOD BUCK,
CONCRETE/MASONRY OR STEEL STUD APPROVED



PROJECT NO. ACE-2021-127

ECO GLASS, LLC
144 HOPE STREET
LONGWOOD, FL 32750

TITLE: SERIES "NOVA" SLIDING GLASS DOOR (XO OR OX)
HORIZONTAL SECTION B-B, THROUGH FRAME INSTALLATION

DATE: 12/30/21

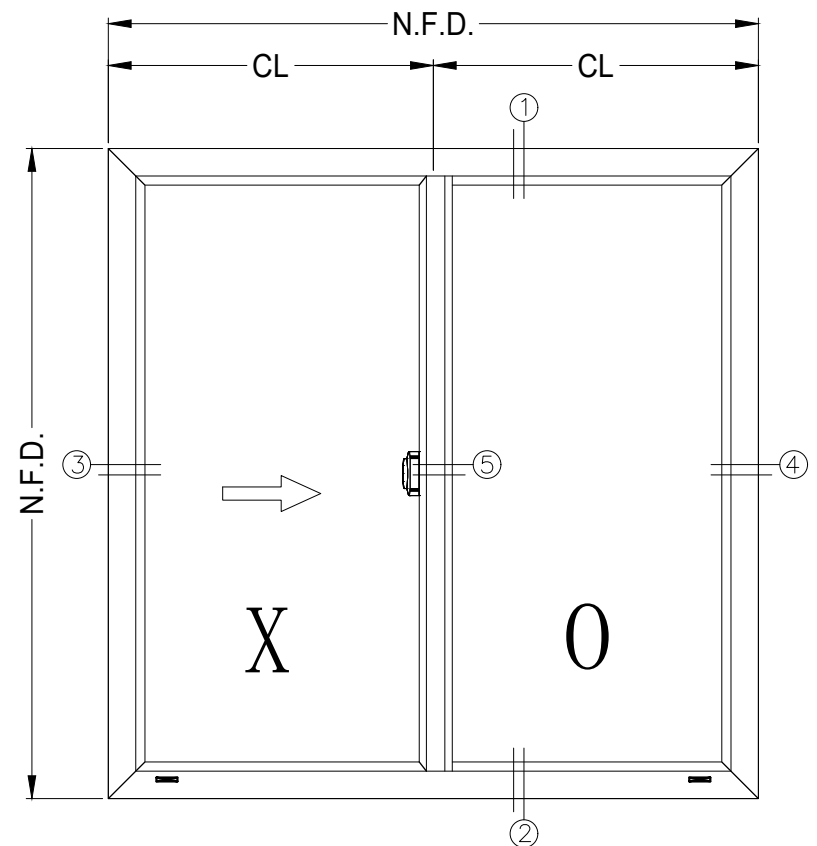
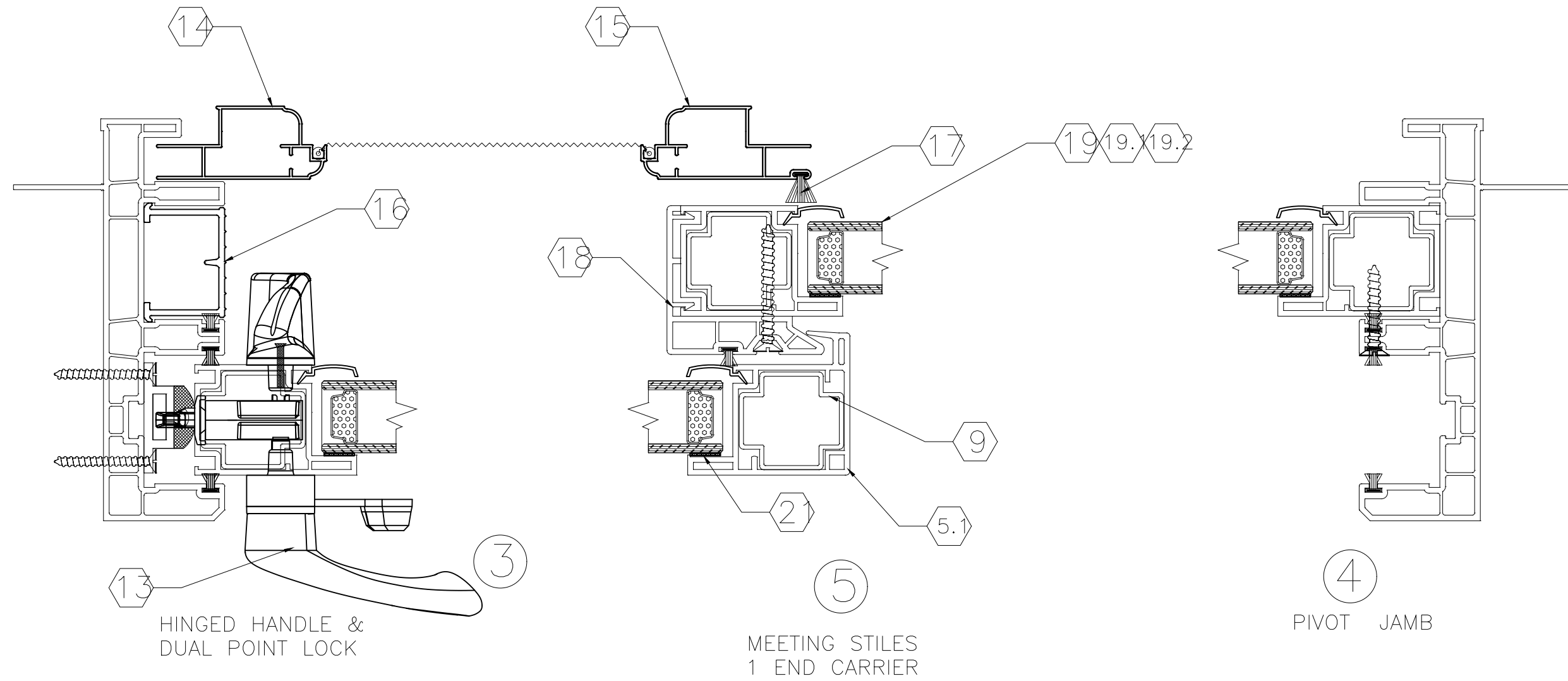
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SHEET: 7 OF 10



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PROJECT NO. ACE-2021-127				
REV	DESCRIPTION	DATE	BY	

ECO GLASS, LLC 144 HOPE STREET LONGWOOD, FL 32750		DATE: 12/30/21 DRAWING NO: ECOGLASS017 SHEET: 9 OF 10
TITLE: SERIES "NOVA" SLIDING GLASS DOOR (XO OR OX) COMPONENTS - HORIZONTAL SECTION		DRAWN BY: RJA SCALE: N.T.S. REV: ---



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BILL OF MATERIALS					
INDEX	PART NUMBER	DESCRIPTION	QTY	VENDOR	MATERIAL
1	ME-SPDN01	Patio Door Nail-on Frame	4	Value Wholesaler	PVC
2	FE-8023	Riser Bar	2	Value Wholesaler	PVC
3	BX-98-54	AL-Screen Frame	2	Value Wholesaler	Anodized Aluminum
3.1	0156-0000	SCREEN RUBBER SEAL	1	Value Wholesaler	—
4	FE-8012	GLAZING BEAD	8	Value Wholesaler	PVC
5	FE-8013	Vent, Top, Bottom, Vent Stile & Interlock	8	Value Wholesaler	PVC
5.1	FE-8015		0		
5.2	FE-8013B	GS-Patio Door	1	Value Wholesaler	PVC
5.3	AL-8013B	Reinforcement	1	Value Wholesaler	Anodized Aluminum
6	SB-002	Patio Door Setting Block	4	Value Wholesaler	PVC
7	S-SS1230NYN131S31 & S-SS1100XXW131S31	Screen Door Rollers 1¼	2	Century Hardward	Die Casting
8	1267-0000	WEEP HOLE COVER	2	Value Wholesaler	PC
9	AL-9801	PANEL RE-BAR	5	Value Wholesaler	Anodized Aluminum
10	1976-PRSS-100-SS-Q UAD	1" STAINLESS STEEL ROLLER	2	Custom Hardware,inc	Die Casting
11	PP-018-570-625 / 29023045WHGZ	WEATHER STRIPPING	1	Value Wholesaler	AMESBURY
12	AL-PDTR1	Patio Sreen Unit	1	Value Wholesaler	Anodized Aluminum
13	ASSW-01	AL-SPD-Screw Washer	1	Value Wholesaler	Die Casting
14	BX-98-55	AL-Screen Frame	1	Value Wholesaler	Anodized Aluminum
15	BX-98-56	AL-Screen Frame	1	Value Wholesaler	Anodized Aluminum
16	ME-SPD05	Patio Cover	1	Value Wholesaler	PVC
17	PP-018-046-101D	GREY WEATHER STRIP FOR PATIO DOOR SCREEN 0.180' X 0.45' 300'/ROLL 4ROLL/BOX	1	Value Wholesaler	Polypropylen e
18	FE-8022	Fixed Interlook Clip	2	Value Wholesaler	PVC
19	(860-56H-357 / 860-37H-357 etc.)	DUALITE SPACER	2	QUANEX	—
19.1	VARIES	GLASS	2	CARDINAL	—
19.2	315W / BT413W	ADHESIVE TAPE	2	Value Wholesaler	—
20	230X270	187X230 T-SLOT PILE	2	AMESBURY	Polypropylene
21	DT-18	Double-tape 1/6"x3/8"x150"(32 Roll/box)	2	Value Wholesaler	—
22	AL-8017B	Screen Track	1	Value Wholesaler	Anodized Aluminum

PROJECT NO. ACE-2021-127				BY
				DATE
				DESCRIPTION
			REV	

ECO GLASS, LLC 144 HOPE STREET LONGWOOD, FL 32750	TITLE: SERIES "NOVA" SLIDING GLASS DOOR (XO OR OX) COMPONENTS - BILL OF MATERIALS	DRAWN BY: RJA	DATE: 12/30/21	DRAWING NO: ECOGLOSS017	SHEET: 10 OF 10
		SCALE: N.T.S.			
		REV:	---		
		ECO GLASS ADVANCED FLORIDA WINDOW SOLUTION 321-207-0507 info@vk-ecoglass.com			

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