

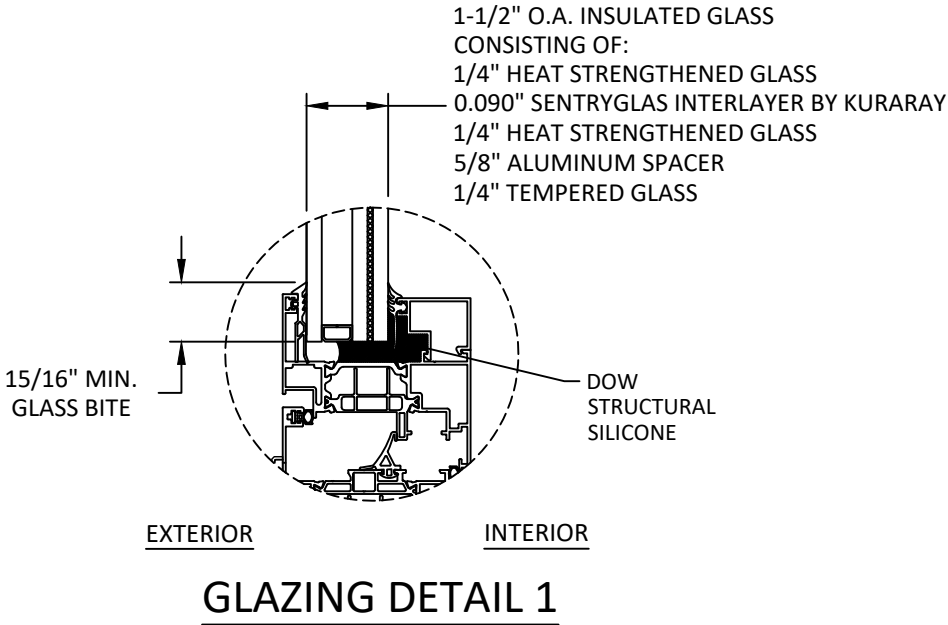
c:\users\julianarodriguez\building_drops, inc\building_drops landing - documents\common\projects\exalco aluminum systems\lbc-24-0307 lbc submittal - aluminum impact_products\dwgs\lbc-wz3\exl004.dwg 9/22/2025 12:49 PM

EXALCO S.A.

ALBIO 129C TILT & TURN WINDOW (WZ3)(IMPACT)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
- AAMA/WDMA/CSA 101/I.S.2/A440-17
 - ASTM E1886-19
 - ASTM E1996-20
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING, AND METAL 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 AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/4 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
5. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
6. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 3 OR LESS.
7. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4.
8. WINDOW FRAME MATERIAL: ALUMINUM 6063-T6
9. GLASS MEETS THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAIL.



- GLAZING NOTES:
1. GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS. PER THE FBC TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.

2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.

3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.

4. D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES SHOWN HEREIN.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES AND GLAZING DETAIL
2	ELEVATION & DESIGN PRESSURE TABLE
3	ELEVATION & DESIGN PRESSURE TABLE
4	ELEVATION & DESIGN PRESSURE TABLE
5	ANCHOR LAYOUTS
6	ANCHOR LAYOUTS
7	VERTICAL SECTIONS
8	HORIZONTAL SECTIONS
9	ANCHOR DETAILS, SCHEDULE, & INSTALLATION NOTES

DESIGN PRESSURE RATING (PSF)				
CONFIGURATION	WIDTH (IN.)	HEIGHT (IN.)	DESIGN PRESSURE	MISSILE IMPACT RATING
X	SEE TABLE ON SHEET 2			LARGE & SMALL MISSILE IMPACT
XX	SEE TABLE ON SHEET 3			
XO	SEE TABLE ON SHEET 4			



5TH KM OLD NATIONAL ROAD, LARISSA-ATHENS
LARISSA 415 00, GREECE
PH: +30 241 068 8688

TITLE: ALBIO 129C TILT & TURN WINDOW (WZ3) (IMPACT) GENERAL NOTES & GLAZING DETAIL

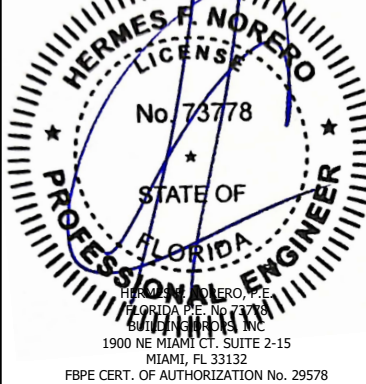
PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2025.09.26 13:01:05 -0400



FL #: FL47791

DATE: 07.15.25

DWG. BY: JR
CHK. BY: HFN

SCALE: NTS

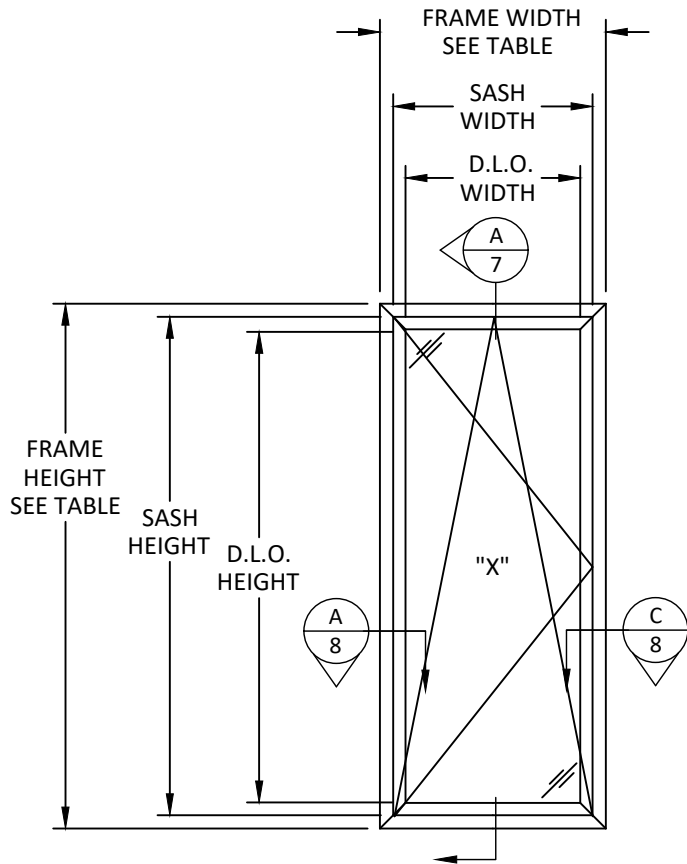
DWG. #: EXL004

SHEET:

1

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ELEVATION
ALBIO 129C TILT & TURN WINDOW

ALBIO 129C TILT & TURN WINDOW SIZE NOTES:
D.L.O. WIDTH = FRAME WIDTH - 8.25"
D.L.O. HEIGHT = FRAME HEIGHT - 8.25"

SASH WIDTH = FRAME WIDTH - 6.20"
SASH HEIGHT = FRAME HEIGHT - 6.20"

DESIGN PRESSURE CHART (PSF)			
FRAME WIDTH (IN.)	FRAME HEIGHT (IN.)	EXT. (+)	INT. (-)
24	48	60.00	60.00
27		60.00	60.00
30		60.00	60.00
33		60.00	60.00
36.12		60.00	60.00
39		60.00	60.00
42		60.00	60.00
45		60.00	60.00
48		60.00	60.00
51		60.00	60.00
24	54	60.00	60.00
27		60.00	60.00
30		60.00	60.00
33		60.00	60.00
36.12		60.00	60.00
39		60.00	60.00
42		60.00	60.00
45		60.00	60.00
48		60.00	60.00
51		60.00	60.00
24	60	60.00	60.00
27		60.00	60.00
30		60.00	60.00
33		60.00	60.00
36.12		60.00	60.00
39		60.00	60.00
42		60.00	60.00
45		60.00	60.00
48		60.00	60.00
51		60.00	60.00
24	66	60.00	60.00
27		60.00	60.00
30		60.00	60.00
33		60.00	60.00
36.12		60.00	60.00
39		60.00	60.00
42		60.00	60.00
45		60.00	60.00
48		60.00	60.00
51		60.00	60.00

DESIGN PRESSURE CHART (PSF)			
FRAME WIDTH (IN.)	FRAME HEIGHT (IN.)	EXT. (+)	INT. (-)
24	72	60.00	60.00
27		60.00	60.00
30		60.00	60.00
33		60.00	60.00
36.12		60.00	60.00
39		60.00	60.00
42		60.00	60.00
24	78	60.00	60.00
27		60.00	60.00
30		60.00	60.00
33		60.00	60.00
36.12		60.00	60.00
24	85.63	60.00	60.00
27		60.00	60.00
30		60.00	60.00
33		60.00	60.00
36.12		60.00	60.00
24	90	60.00	60.00
27		60.00	60.00
30		60.00	60.00
33		55.56	55.56
24	96	60.00	60.00
27		54.70	54.70
30		49.60	49.60
24	102	50.81	50.81
27		45.44	45.44
30		41.17	41.17
24	108	42.70	42.70
27		38.16	38.16
24	114	36.23	36.23
27		32.36	32.36
24	120	31.01	31.01



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TITLE: ALBIO 129C TILT & TURN WINDOW (WZ3) (IMPACT) ELEVATION & DESIGN PRESSURE TABLE

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CHK. BY: HFN

SCALE: NTS

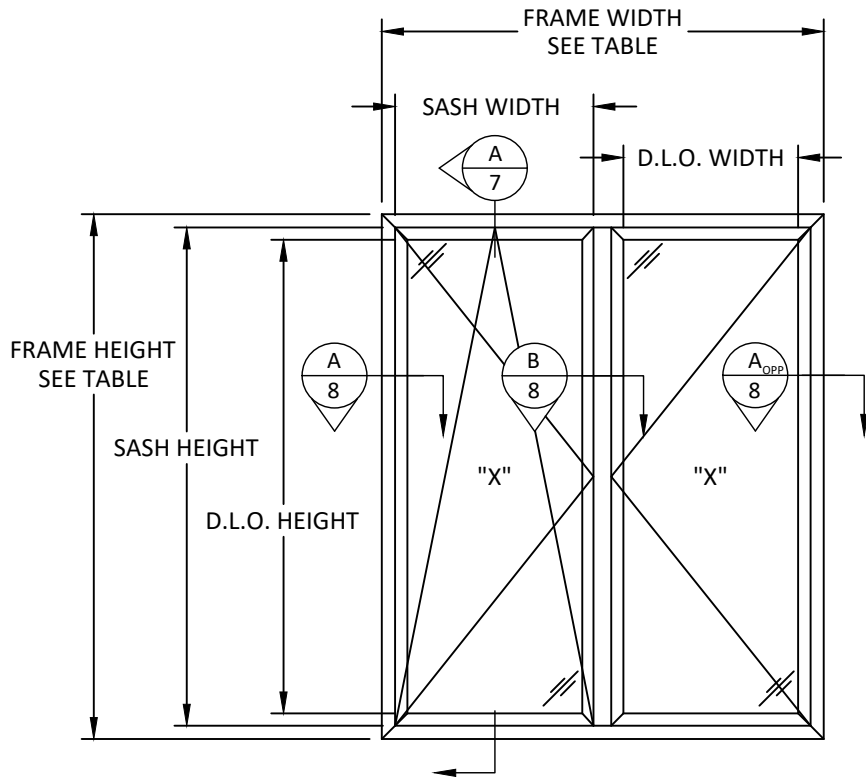
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SHEET:

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ELEVATION
ALBIO 129C FRENCH TILT & TURN
WINDOW

ALBIO 129C TILT & TURN WINDOW SIZE
NOTES:
D.L.O. WIDTH = FRAME WIDTH/2 - 8.25"
D.L.O. HEIGHT = FRAME HEIGHT - 8.25"

SASH WIDTH = FRAME WIDTH/2 - 6.20"
SASH HEIGHT = FRAME HEIGHT - 6.20"

DESIGN PRESSURE CHART (PSF)			
FRAME WIDTH (IN.)	FRAME HEIGHT (IN.)	EXT. (+)	INT. (-)
48	48	60.00	60.00
54		60.00	60.00
60		60.00	60.00
66		60.00	60.00
72.24		60.00	60.00
78		60.00	60.00
84		60.00	60.00
90		60.00	60.00
96		60.00	60.00
102		60.00	60.00
48	54	60.00	60.00
54		60.00	60.00
60		60.00	60.00
66		60.00	60.00
72.24		60.00	60.00
78		60.00	60.00
84		60.00	60.00
90		60.00	60.00
96		60.00	60.00
102		60.00	60.00
48	60	60.00	60.00
54		60.00	60.00
60		60.00	60.00
66		60.00	60.00
72.24		60.00	60.00
78		60.00	60.00
84		60.00	60.00
90		60.00	60.00
96		60.00	60.00
102		60.00	60.00
48	66	60.00	60.00
54		60.00	60.00
60		60.00	60.00
66		60.00	60.00
72.24		60.00	60.00
78		60.00	60.00
84		60.00	60.00
90		60.00	60.00
96		60.00	60.00
102		60.00	60.00

DESIGN PRESSURE CHART (PSF)			
FRAME WIDTH (IN.)	FRAME HEIGHT (IN.)	EXT. (+)	INT. (-)
48	72	60.00	60.00
54		60.00	60.00
60		60.00	60.00
66		60.00	60.00
72.24		60.00	60.00
78		60.00	60.00
84		60.00	60.00
48	78	60.00	60.00
54		60.00	60.00
60		60.00	60.00
66		60.00	60.00
72.24		60.00	60.00
78		60.00	60.00
84		60.00	60.00
48	85.63	60.00	60.00
54		60.00	60.00
60		60.00	60.00
66		60.00	60.00
72.24		60.00	60.00
78		60.00	60.00
84		60.00	60.00
48	90	60.00	60.00
54		60.00	60.00
60		60.00	60.00
66		55.56	55.56
48	96	60.00	60.00
54		54.70	54.70
60		49.60	49.60
66		50.81	50.81
48	102	45.44	45.44
54		41.17	41.17
60		42.70	42.70
66		38.16	38.16
48	108	36.23	36.23
54		32.36	32.36
60		31.01	31.01
66		31.01	31.01



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TITLE: ALBIO 129C TILT & TURN
WINDOW
(WZ3) (IMPACT)
ELEVATION & DESIGN
PRESSURE TABLE

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
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WEB: www.buildingdrops.com



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DWG. BY: JR
CHK. BY: HFN

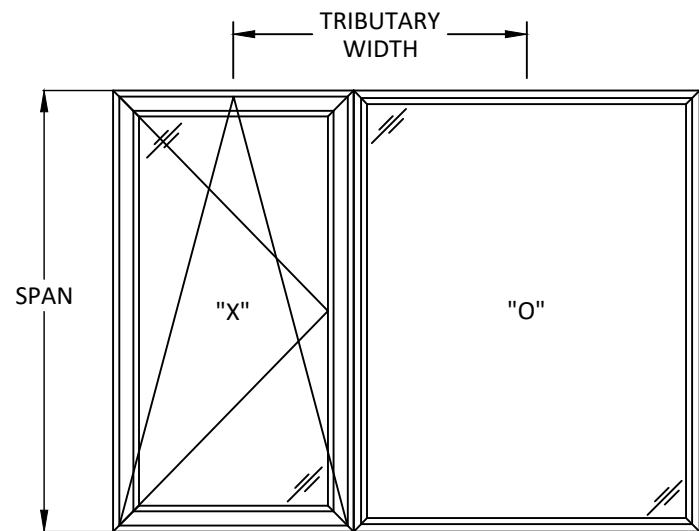
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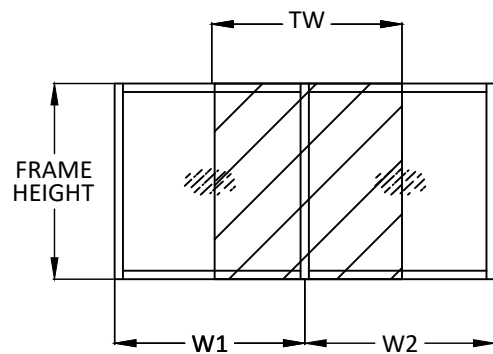
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NOTE: FIXED WINDOWS UNDER SEPARATE APPROVAL. LESSER OF DESIGN PRESSURES ON THIS TABLE AND THE INDIVIDUAL UNITS SHALL APPLY TO THE BACK TO BACK CONFIGURATION.



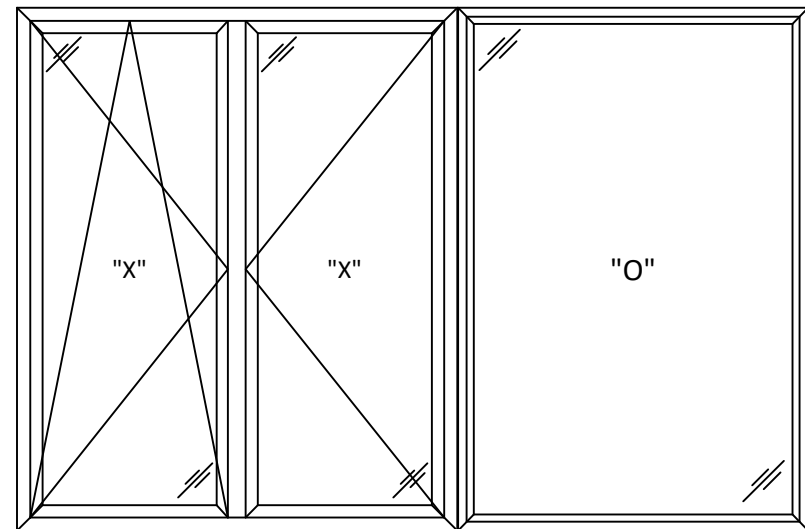
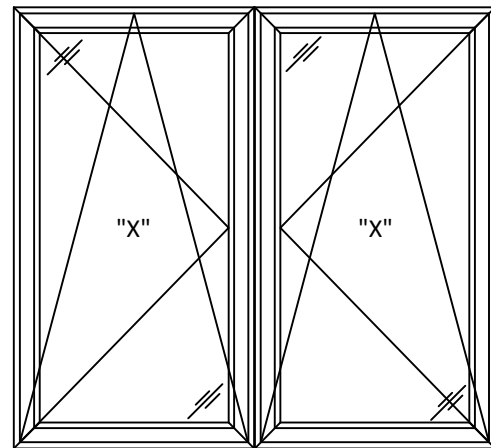
ELEVATION
ALBIO 129C BACK TO BACK MULLION



TRIBUTARY WIDTH (TW) = $\frac{W1 + W2}{2}$

DESIGN PRESSURE CHART (PSF)			
TRIBUTARY WIDTH (IN.)	FRAME HEIGHT (IN.)	EXT. (+)	INT. (-)
30	48	60.00	60.00
36		60.00	60.00
42		60.00	60.00
47		60.00	60.00
54		60.00	60.00
60		60.00	60.00
66	54	60.00	60.00
30		60.00	60.00
36		60.00	60.00
42		60.00	60.00
47		60.00	60.00
54		60.00	60.00
60	60	60.00	60.00
30		60.00	60.00
36		60.00	60.00
42		60.00	60.00
47		60.00	60.00
54		60.00	60.00
60	66	60.00	60.00
30		60.00	60.00
36		60.00	60.00
42		60.00	60.00
47		60.00	60.00
54		60.00	60.00
60	72.24	60.00	60.00
30		60.00	60.00
36		60.00	60.00
42		60.00	60.00
47		60.00	60.00
54		60.00	60.00
60	78	56.88	56.88
30		50.36	50.36
36		52.75	52.75
42		44.99	44.99
47		42.60	42.60
54		36.22	36.22
60	84	34.91	34.91
30		28.97	28.97
36		24.31	24.31
42			
47			
54			
60	90		
30			
36			
42			
47			
54			
60	96		
30			
36			
42			
47			
54			
60	102		
30			
36			
42			
47			
54			
60	108		
30			
36			
42			
47			
54			

QUALIFIED CONFIGURATIONS



NOTE: FIXED WINDOW IS UNDER A SEPARATE FLORIDA PRODUCT APPROVAL.



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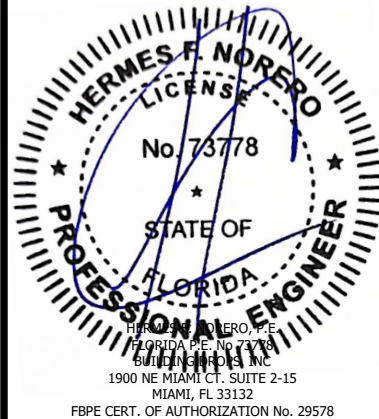
TITLE: ALBIO 129C TILT & TURN WINDOW (WZ3) (IMPACT) ELEVATION & DESIGN PRESSURE TABLE

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MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



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FL #:

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DATE: 07.15.25

DWG. BY: JR

CHK. BY: HFN

SCALE: NTS

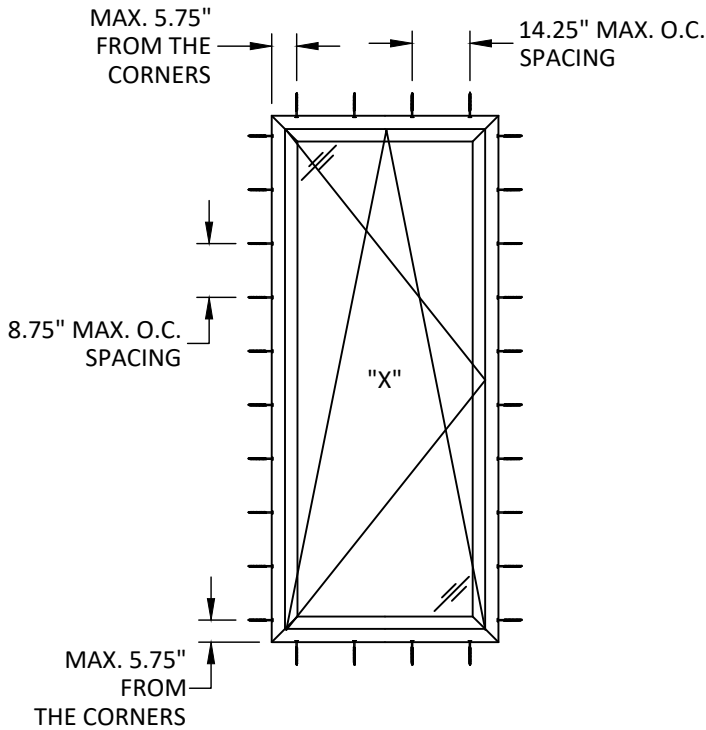
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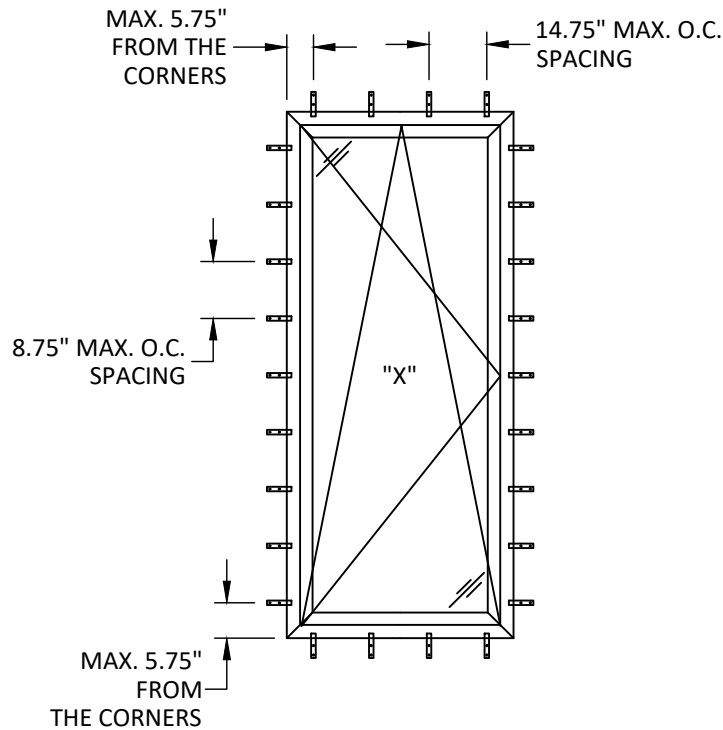
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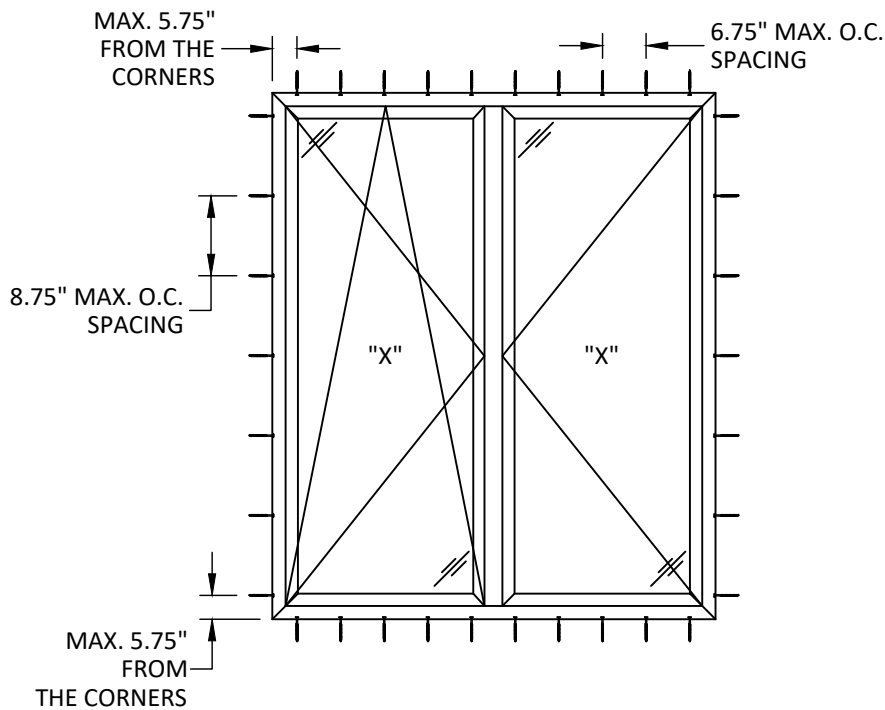
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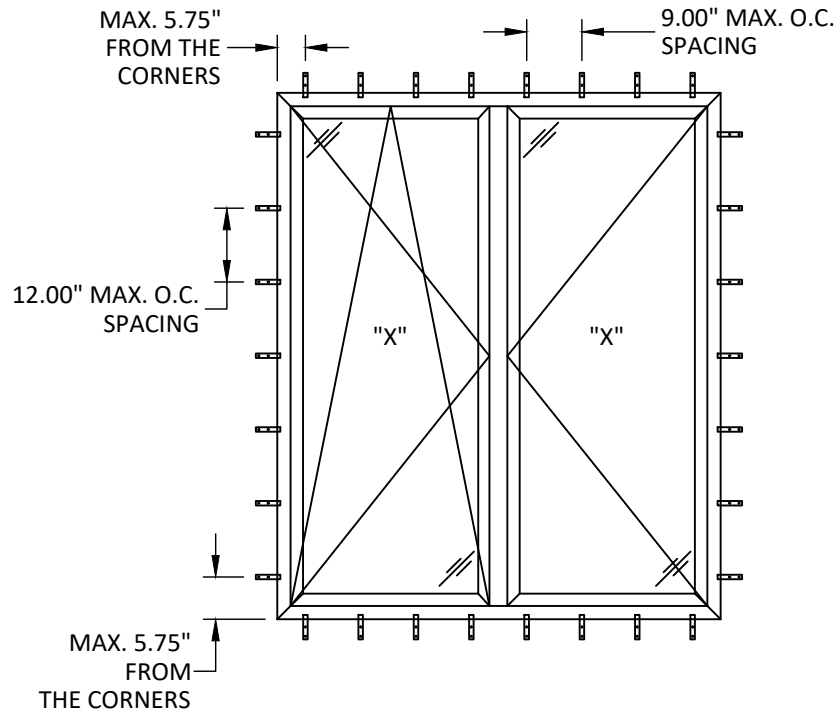
ANCHOR LAYOUT
ALBIO 129C TILT & TURN WINDOW
THROUGH FRAME INSTALLATION



ANCHOR LAYOUT
ALBIO 129C TILT & TURN WINDOW
STRAP INSTALLATION



ANCHOR LAYOUT
ALBIO 129C FRENCH TILT &
TURN WINDOW
THROUGH FRAME INSTALLATION



ANCHOR LAYOUT
ALBIO 129C FRENCH TILT &
TURN WINDOW
STRAP INSTALLATION



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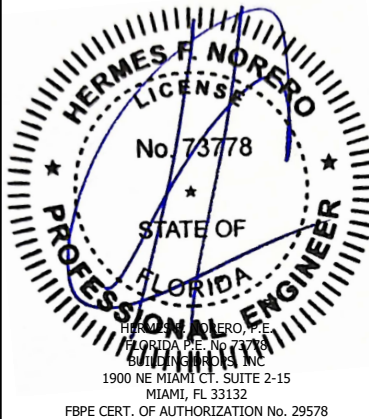
TITLE: ALBIO 129C TILT & TURN
WINDOW
(WZ3) (IMPACT)
ANCHOR LAYOUTS

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DATE: **07.15.25**

DWG. BY: JR	CHK. BY: HFN
-----------------------	------------------------

SCALE: **NTS**

DWG. #: **EXL004**

SHEET:

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THROUGH FRAME INSTALLATION

STRAP INSTALLATION



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 **BUILDING DROPS**

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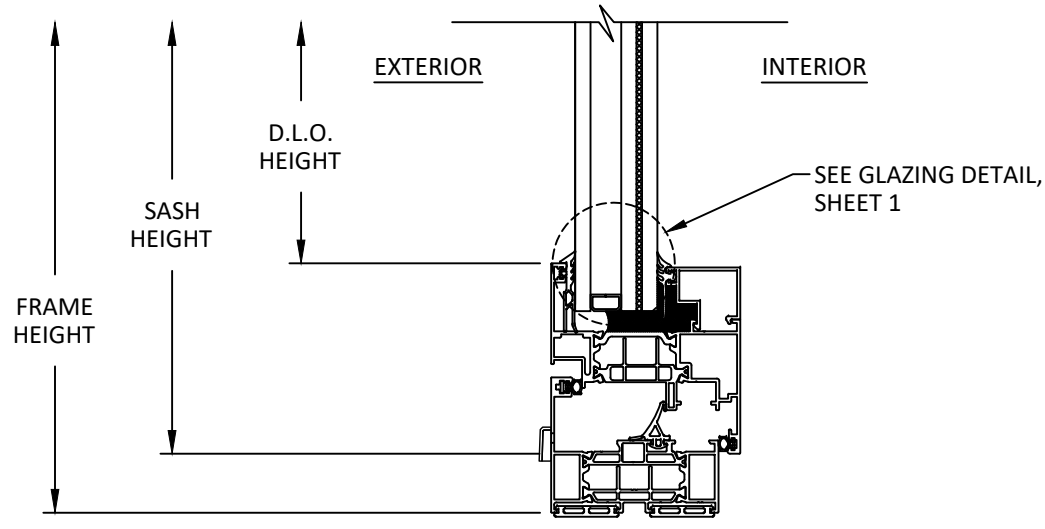
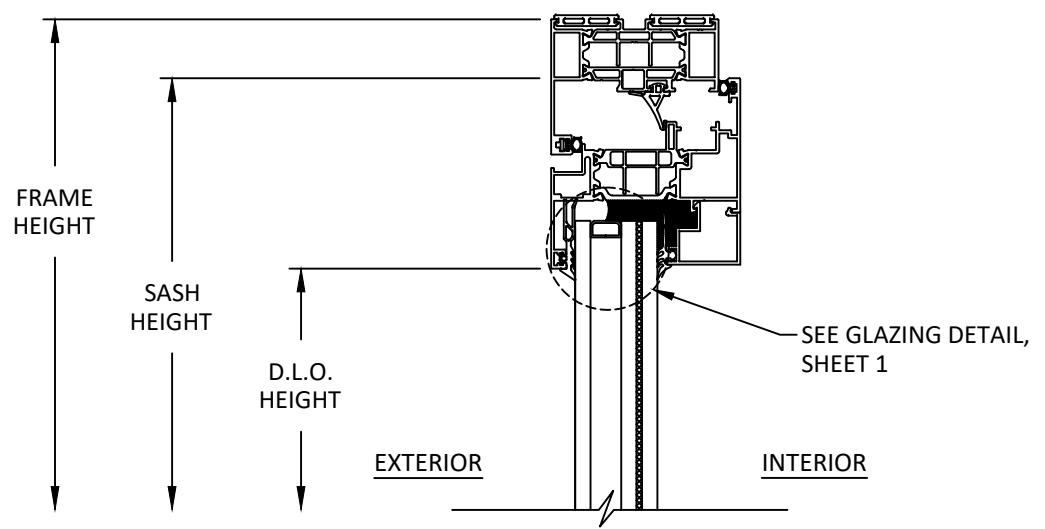
REMARKS	BY	DATE

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A
7 VERTICAL SECTION
TYP. HEAD AND SILL DETAIL



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LARISSA 415 00, GREECE
PH: +30 241 068 8688

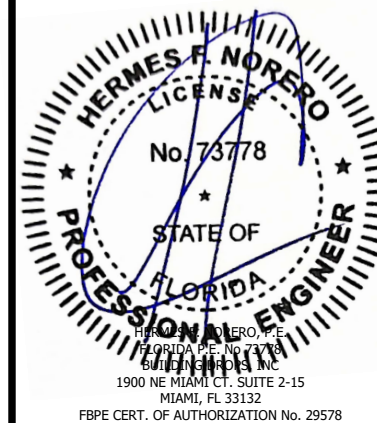
TITLE: ALBIO 129C TILT & TURN
WINDOW
(WZ3) (IMPACT)
VERTICAL SECTIONS

PREPARED BY:
BUILDING DROPS, INC.
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REMARKS	BY	DATE

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FL #: **FL47791**

DATE: **07.15.25**

DWG. BY: JR	CHK. BY: HFN
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SCALE: **NTS**

DWG. #: **EXL004**

SHEET: **7**

OF 9

Diagram illustrating the cross-section of a window assembly, showing the interior and exterior views, and the dimensions for the window frame and sash.

The diagram is divided into two main sections: **INTERIOR** (top) and **EXTERIOR** (bottom).

The window assembly is shown in cross-section, revealing the internal components, including the sash, frame, and glazing. A dashed circle highlights the glazing detail, with a callout pointing to **SEE GLAZING DETAIL, SHEET 1**.

The dimensions are defined as follows:

- D.L.O. WIDTH**: Dimension across the top of the window frame.
- SASH WIDTH**: Dimension across the width of the sash.
- FRAME WIDTH**: Dimension across the width of the frame.

3/16" X 2-15/16" ANCHOR

SEE GLAZING DETAIL, SHEET 1

INTERIOR

INTERIOR

EXTERIOR

EXTERIOR

D.L.O. WIDTH

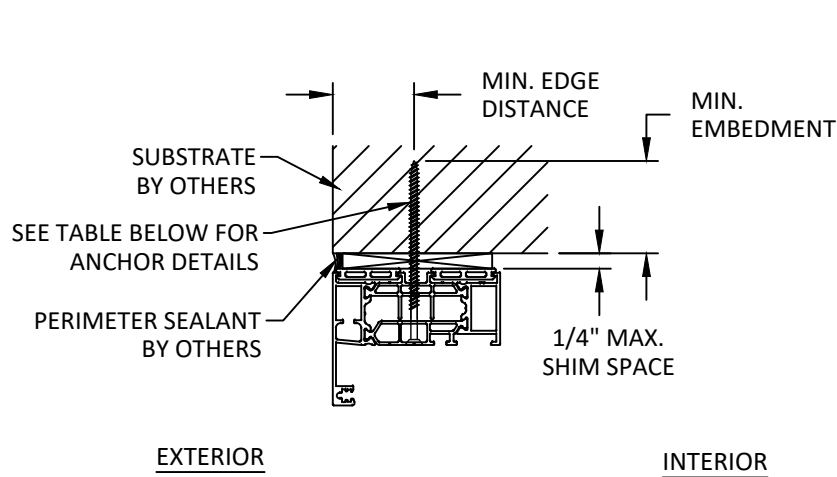
SASH WIDTH

FRAME WIDTH

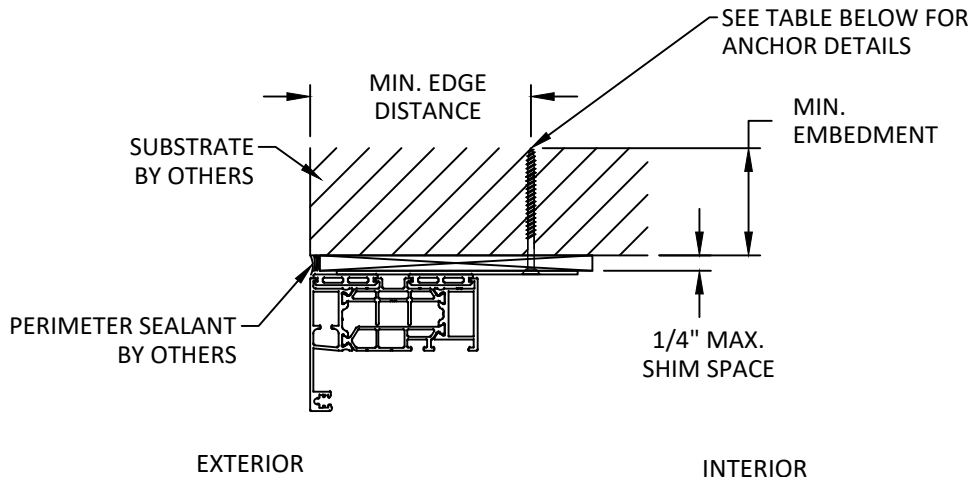
FRAME WIDTH

DF 9

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A
9 VERTICAL SECTION
HEAD - THROUGH FRAME
NOTE: SILL & JAMB SIMILAR



B
9 VERTICAL SECTION
HEAD - STRAP
NOTE: SILL & JAMB SIMILAR

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN FOR THROUGH FRAME INSTALLATION AND TWO (2) INSTALLATION ANCHORS ARE REQUIRED AT EACH ANCHOR LOCATION SHOWN FOR STRAP INSTALLATION, UNLESS OTHERWISE STATED ON SHEET 4.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/4$ INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR MASONRY OR CONCRETE OPENINGS, A 1X WOOD BUCK MAY BE USED (OPTIONAL) AS LONG AS THE MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS ARE STILL MET WITHIN THE CORRESPONDING HOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.

ANCHOR SCHEDULE					
METHOD	QUANTITY PER LOCATION	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	1	WOOD: MIN. SG = 0.55	#14 WOOD SCREW	1.50"	0.75"
		METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	1/4" SELF-DRILLING SCREW	3 THREADS MIN PENETRATION BEYOND STRUCTURE	0.75"
		CONCRETE: f'c=3000PSI	1/4" ITW TAPCON	1.25"	2.50"
		MASONRY: CMU per ASTM C90 MIN. 2000 PSI	1/4" ITW TAPCON	1.00"	2.50"
STRAP	2	WOOD: MIN. SG = 0.55	#14 WOOD SCREW	1.50"	0.75"
		METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	1/4" SELF-DRILLING SCREW	3 THREADS MIN PENETRATION BEYOND STRUCTURE	0.75"
		CONCRETE: f'c=3000PSI	1/4" ITW TAPCON	1.25"	2.50"
		MASONRY: CMU per ASTM C90 MIN. 2000 PSI	1/4" ITW TAPCON	1.00"	2.50"



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TITLE: ALBIO 129C TILT & TURN WINDOW (WZ3) (IMPACT)

ANCHOR DETAILS, SCHEDULE, & INSTALLATION NOTES

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