

LEAL GLASS INC.

TNT15000 TILT & TURN WINDOW

(HVHZ)(IMPACT)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
- AAMA/WDMA/CSA 101/I.S.2/A440-17

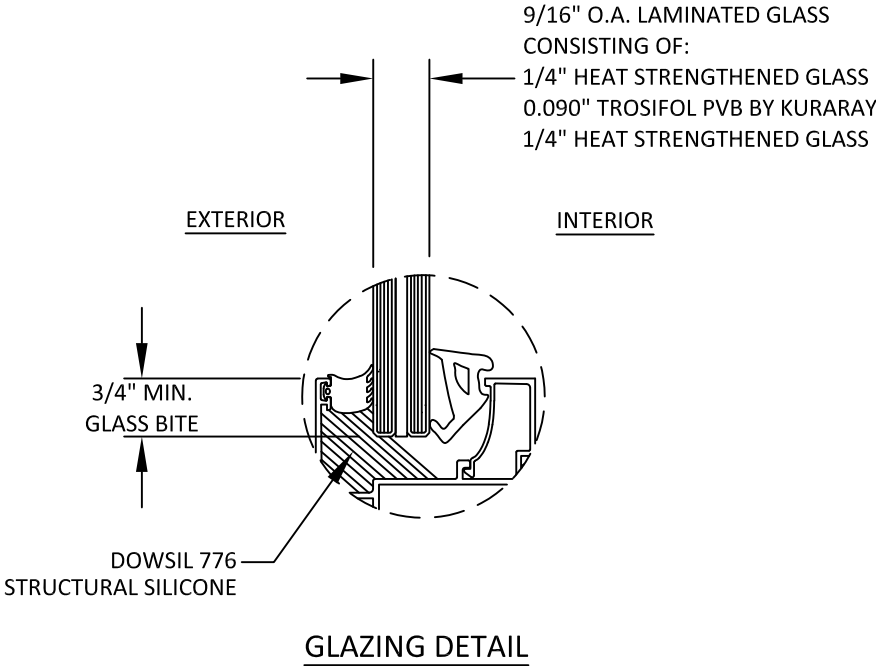
TAS 201-94

TAS 202-94

TAS 203-94

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 ±1/2 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.
7. WINDOW FRAME MATERIAL: ALUMINUM 6060-T66
8. 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 AND DESIGN PRESSURE TABLES
3	ANCHOR LAYOUT
4	VERTICAL SECTION
5	HORIZONTAL SECTION
6	ANCHOR DETAILS AND INSTALLATION NOTES
7	BILL OF MATERIALS & COMPONENTS

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



LEAL GLASS INC.
1530 SWEETBAY WAY,
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TITLE:

TNT15000
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(HVHZ) (IMPACT)

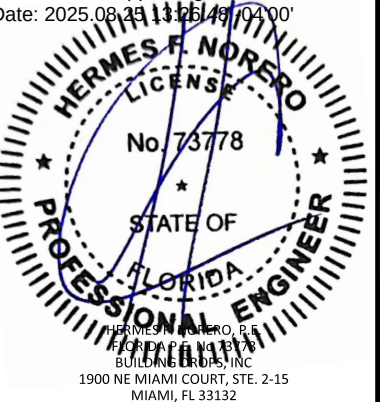
PREPARED BY:

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: 2025.08.29 11:26:49 -0400



HERMES F. NORERO, P.E.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL47745

DATE:

11.26.24

DWG. BY:

DB

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

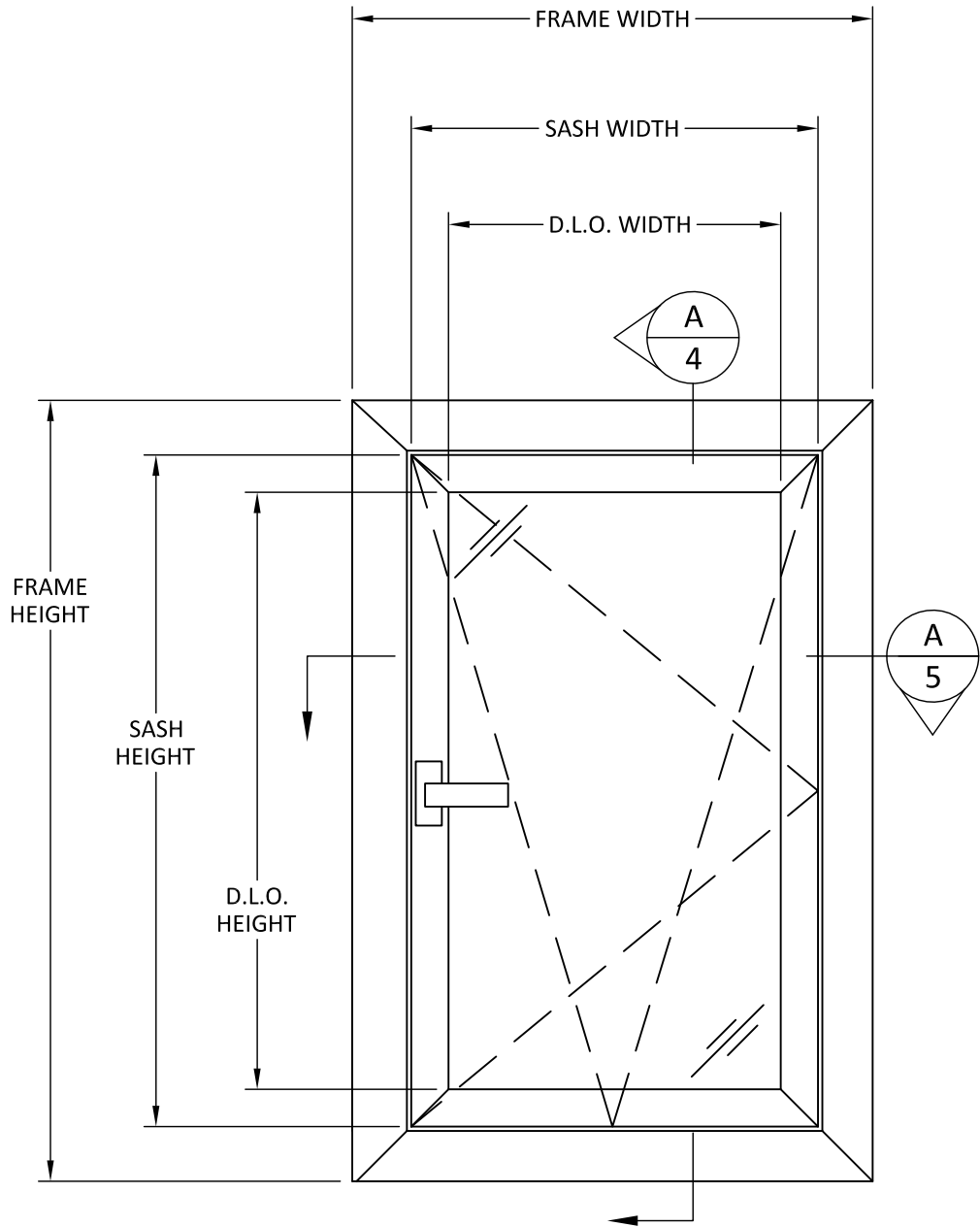
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SHEET:

1

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ELEVATION

SASH HEIGHT = FRAME HEIGHT - 2.375"
SASH WIDTH = FRAME WIDTH - 2.375"
D.L.O. HEIGHT = FRAME HEIGHT - 8.375"
D.L.O. WIDTH = FRAME WIDTH - 8.375"

DESIGN PRESSURE TABLE (PSF)			
NOMINAL DIMS.		POS. (+)	NEG. (-)
FRAME WIDTH (IN.)	FRAME HEIGHT (IN.)		
24	24	70.0	70.0
30		70.0	70.0
37.4375		70.0	70.0
42		70.0	70.0
48		70.0	70.0
54		70.0	70.0
60		70.0	70.0
66		70.0	70.0
72		70.0	70.0
78		70.0	70.0
84	30	70.0	70.0
90		70.0	70.0
96		70.0	70.0
24		70.0	70.0
30		70.0	70.0
37.4375		70.0	70.0
42		70.0	70.0
48		70.0	70.0
54		70.0	70.0
60		70.0	70.0
66	36	70.0	70.0
72		70.0	70.0
78		70.0	70.0
84		70.0	70.0
90		70.0	70.0
96		70.0	70.0
24		70.0	70.0
30		70.0	70.0
37.4375		70.0	70.0
42		70.0	70.0
48	42	62.4	62.4
54		62.4	62.4
60		62.4	62.4
66		62.4	62.4
72		62.4	62.4
78		62.4	62.4
24		70.0	70.0
30		70.0	70.0
37.4375		70.0	70.0
42		70.0	70.0

DESIGN PRESSURE TABLE (PSF)			
NOMINAL DIMS.		POS. (+)	NEG. (-)
FRAME WIDTH (IN.)	FRAME HEIGHT (IN.)		
24	48	70.0	70.0
30		70.0	70.0
37.4375		70.0	70.0
42		62.4	62.4
48		54.6	54.6
54		54.6	54.6
60	54	54.6	54.6
66		54.6	54.6
24		70.0	70.0
30		70.0	70.0
37.4375		70.0	70.0
42		62.4	62.4
48	60	54.6	54.6
54		48.5	48.5
60		48.5	48.5
24		70.0	70.0
30		70.0	70.0
37.4375		70.0	70.0
42	66	62.4	62.4
48		54.6	54.6
54		48.5	48.5
60		48.5	48.5
24		70.0	70.0
30		70.0	70.0
37.4375	72	70.0	70.0
42		62.4	62.4
48		54.6	54.6
54		48.5	48.5
60		48.5	48.5
66		48.5	48.5
72	78	70.0	70.0
78		70.0	70.0
84		70.0	70.0
90		70.0	70.0
96		70.0	70.0
24		70.0	70.0
30	87.625	70.0	70.0
37.4375		70.0	70.0
42		62.4	62.4
48		54.6	54.6
54		48.5	48.5
60		48.5	48.5
66	90	48.5	48.5
72		48.5	48.5
78		48.5	48.5
84		48.5	48.5
90		48.5	48.5
96		48.5	48.5
24	96	70.0	70.0
30		70.0	70.0
37.4375		66.6	66.6
42		64.1	64.1
48		64.1	64.1
54		64.1	64.1



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(HVHZ) (IMPACT)
ELEVATION & DESIGN
PRESSURE TABLES

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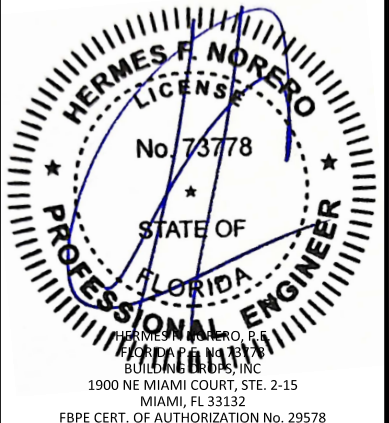
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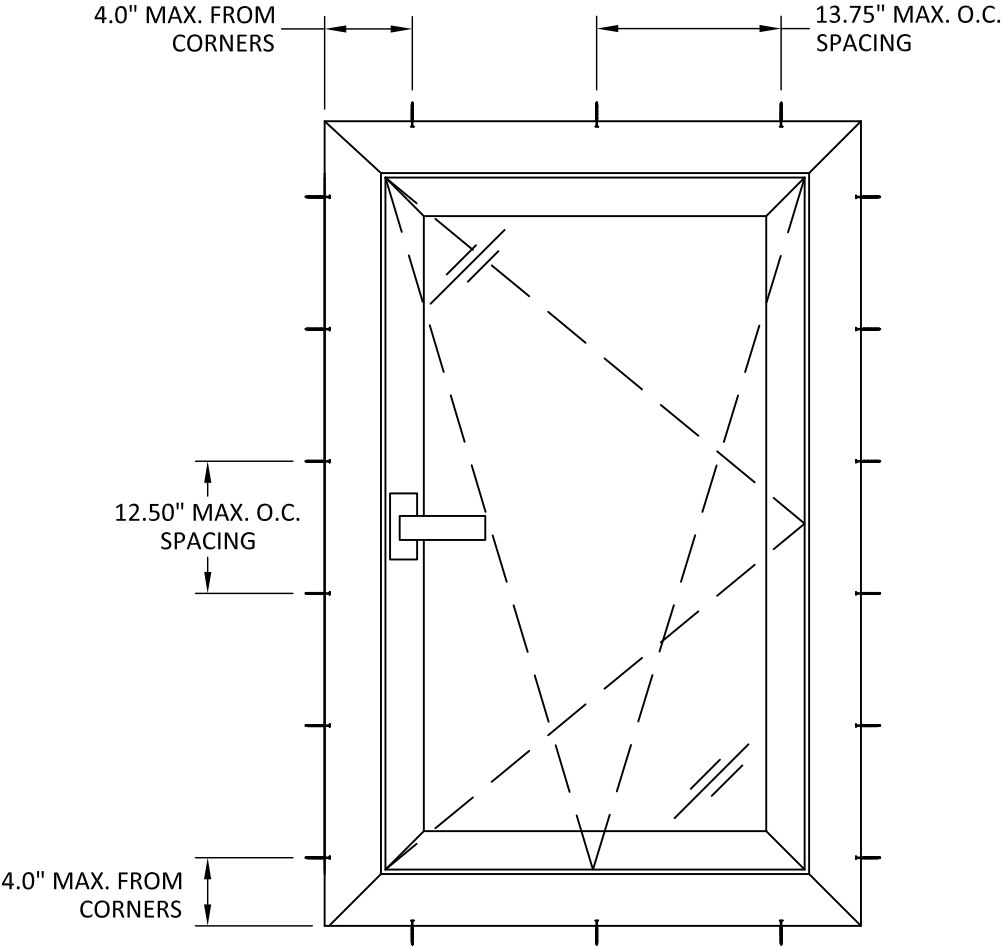
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ANCHOR LAYOUT
THROUGH FRAME INSTALLATION



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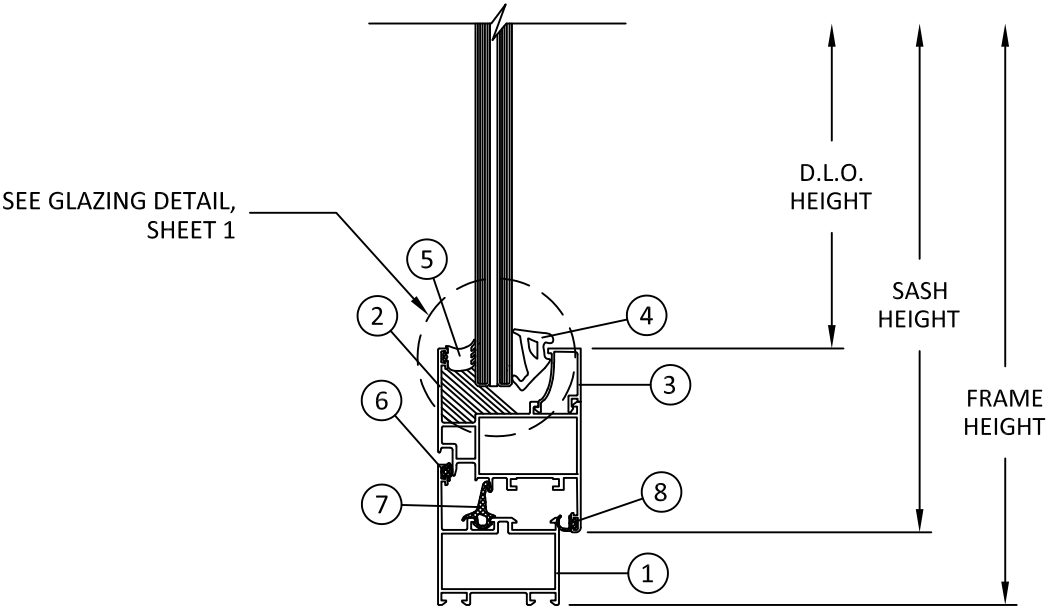
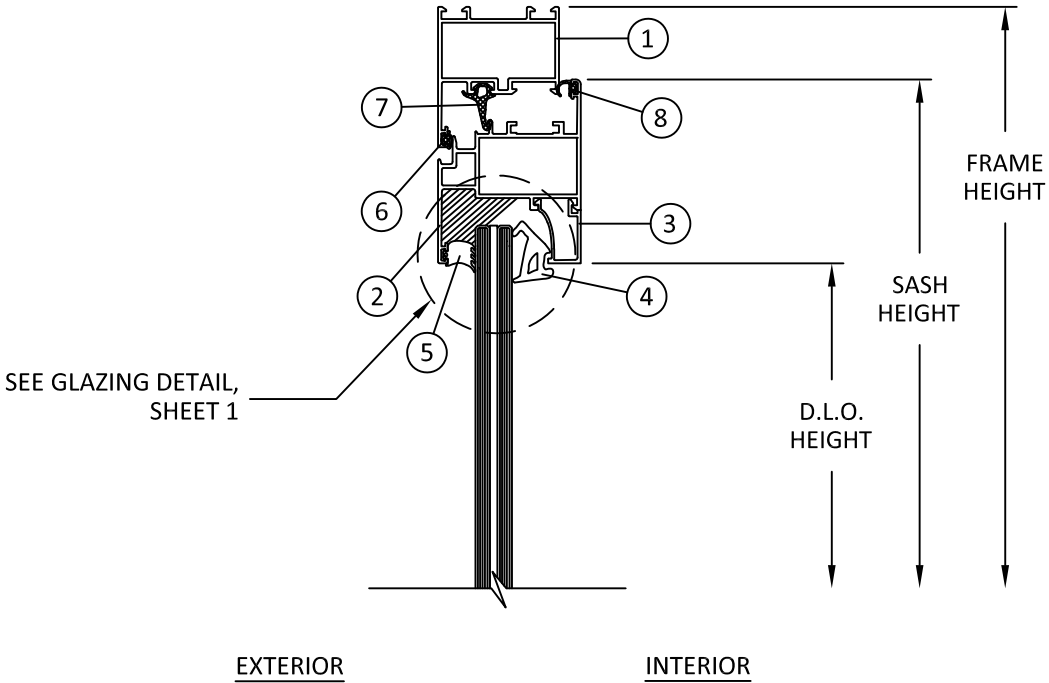
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A
4 VERTICAL SECTION



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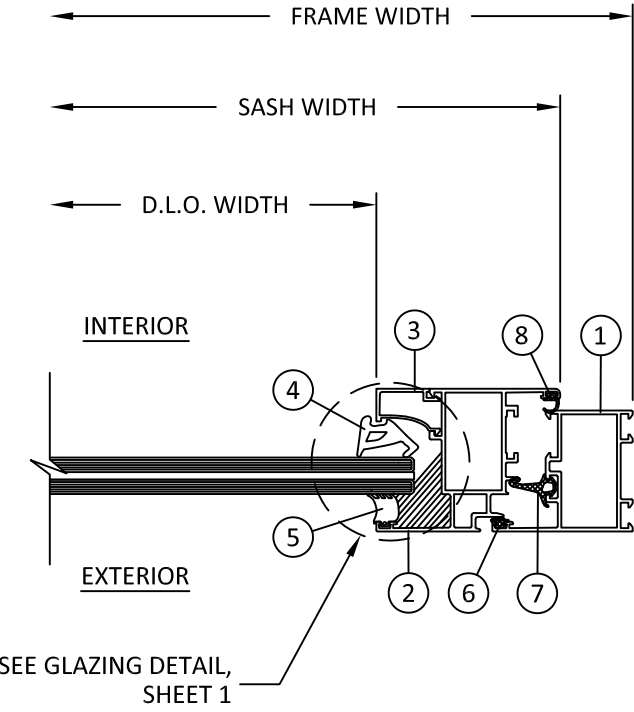
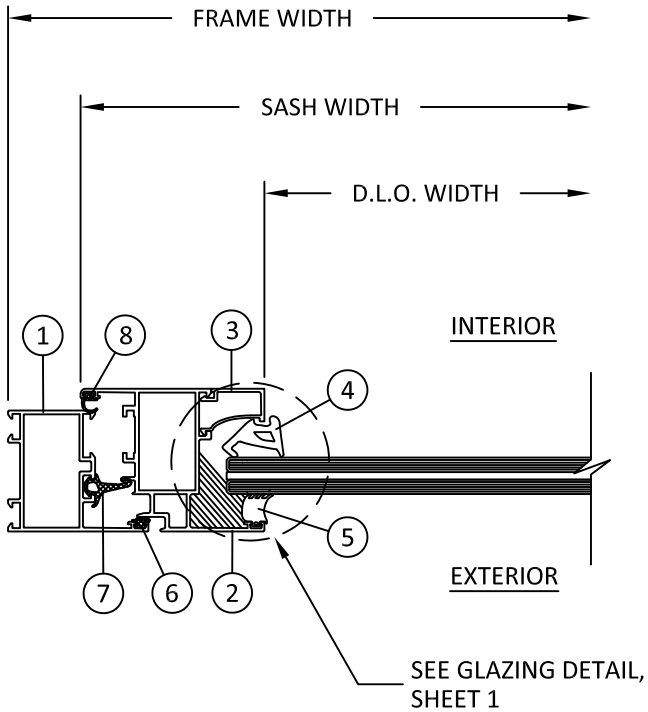
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A
5 HORIZONTAL SECTION



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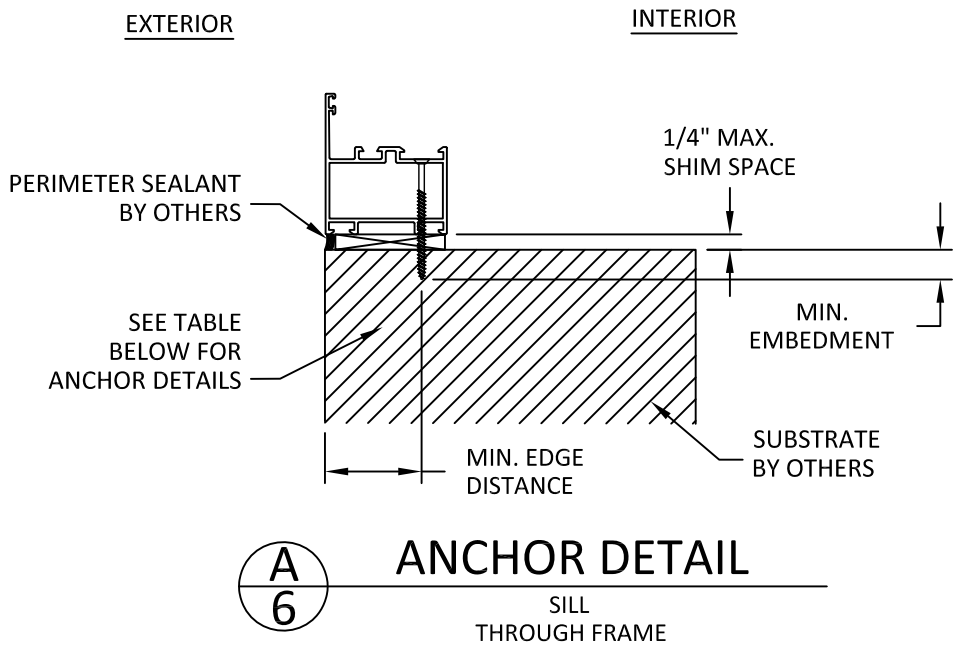
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OF 7

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NOTE: JAMB & HEAD SIMILAR

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED ON SHEET 3.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ 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	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	WOOD: MIN. SG = 0.55	#10 WOOD SCREW	1.50"	0.75"
	METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	#10 SELF-DRILLING SCREW	3 THREADS MIN. PENETRATION BEYOND STRUCTURE	0.50"
	CONCRETE: f'c=3000PSI	3/16" ITW TAPCON	1.00"	2.25"
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI			4.00"



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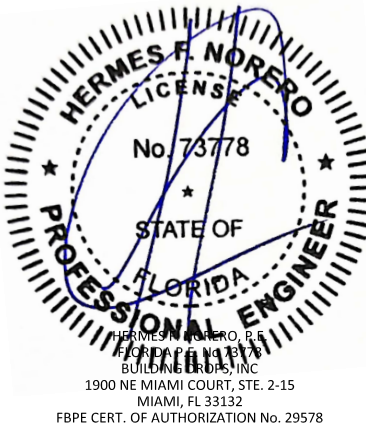
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ANCHOR DETAILS &
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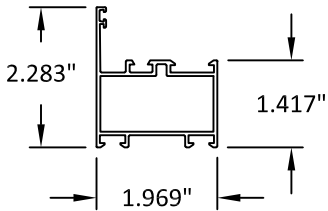
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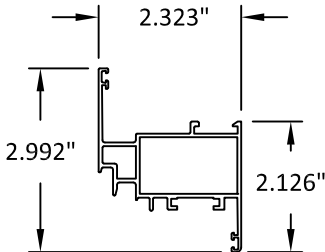
SHEET:
6
OF 7

BILL OF MATERIALS			
ITEM	PART NO.	DESCRIPTION	MATERIAL
1	M15010	FRAME	6060-T66
2	M15033	SASH	6060-T66
3	M9312	GLAZING BEAD	6060-T66
4	200-04-023/045/067-01	INNER GLAZING GASKET	EPDM
5	200-06-860-01/12	OUTER GLAZING GASKET	EPDM
6	-	GASKET	EPDM
7	210-15-000-01	CENTRAL SEAL GASKET	EPDM
8	220-63-000-01	SHUTTER SASH SEAL GASKET	EPDM

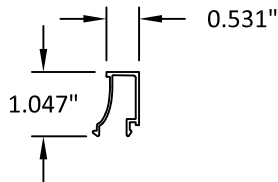
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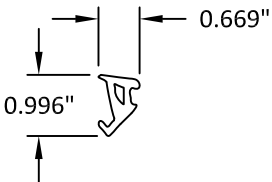
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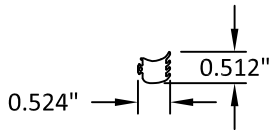
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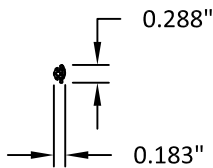
4 INNER GLAZING GASKET



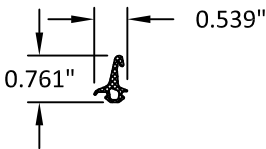
5 OUTER GLAZING GASKET



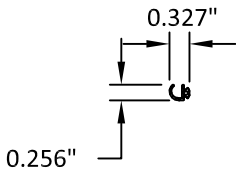
6 GASKET



7 CENTRAL SEAL GASKET



8 SHUTTER SASH SEAL GASKET



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