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DRUTEX S.A.

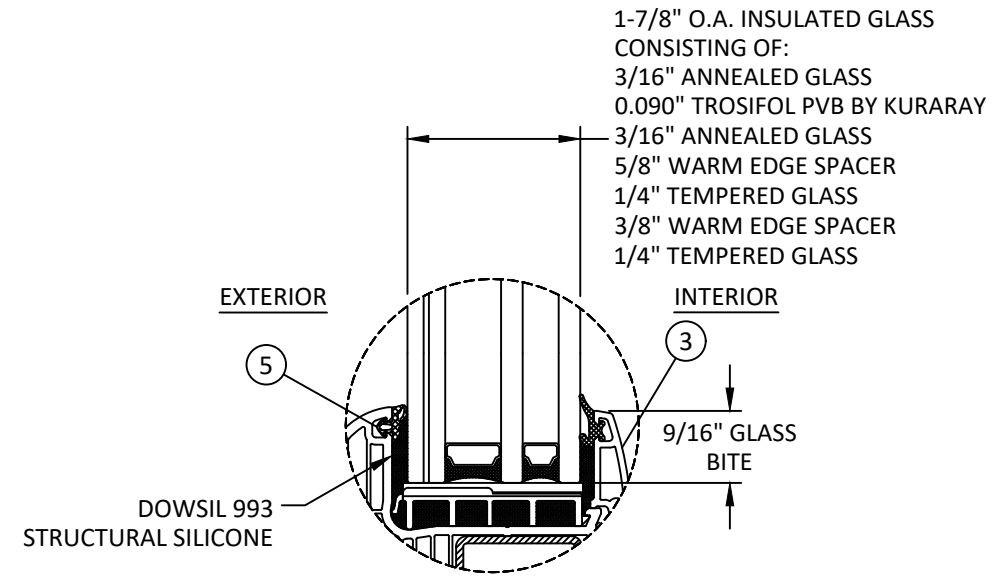
IGLO ENERGY CLASSIC CASEMENT WINDOW (HVHZ)(IMPACT)



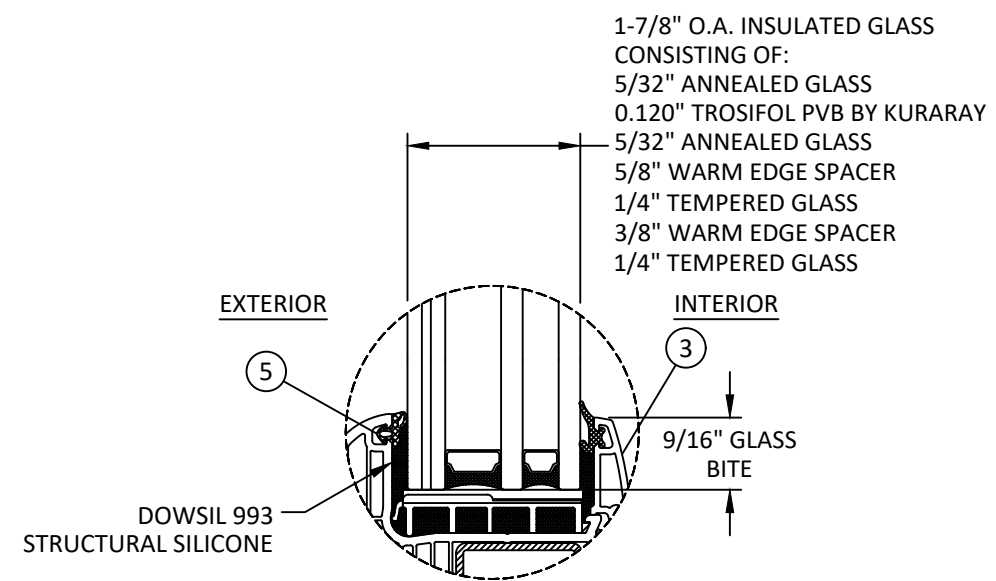
LEBORSKA 31, 77-100
BYTOW, POLAND
PH: +48-59-822-9101 FX: +48-59-822-9103

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION 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 E1886-13a
 - ASTM E1996-17
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.
7. WINDOW FRAME MATERIAL: uPVC
8. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.
9. CUSTOM SIZES AVAILABLE UPON REQUEST. CUSTOM DESIGN PRESSURE WILL BE ASSIGNED EQUAL TO NEXT LARGER STANDARD SIZE.



1-7/8" O.A. INSULATED GLASS
CONSISTING OF:
3/16" ANNEALED GLASS
0.090" TROSIFOL PVB BY KURARAY
3/16" ANNEALED GLASS
5/8" WARM EDGE SPACER
1/4" TEMPERED GLASS
3/8" WARM EDGE SPACER
1/4" TEMPERED GLASS



1-7/8" O.A. INSULATED GLASS
CONSISTING OF:
5/32" ANNEALED GLASS
0.120" TROSIFOL PVB BY KURARAY
5/32" ANNEALED GLASS
5/8" WARM EDGE SPACER
1/4" TEMPERED GLASS
3/8" WARM EDGE SPACER
1/4" TEMPERED GLASS

- 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 DETAILS
2	"X" ELEVATION AND DESIGN PRESSURE TABLE
3	"XX" ELEVATION AND DESIGN PRESSURE TABLE
4	"X" ANCHOR LAYOUTS
5	"XX" ANCHOR LAYOUTS
6	VERTICAL SECTIONS
7	HORIZONTAL SECTIONS
8	HORIZONTAL SECTIONS CONTINUED
9	ANCHOR DETAILS AND INSTALLATION NOTES
10	ANCHOR DETAILS CONTINUED
11	BILL OF MATERIALS AND 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
XX	SEE TABLE ON SHEET 3			

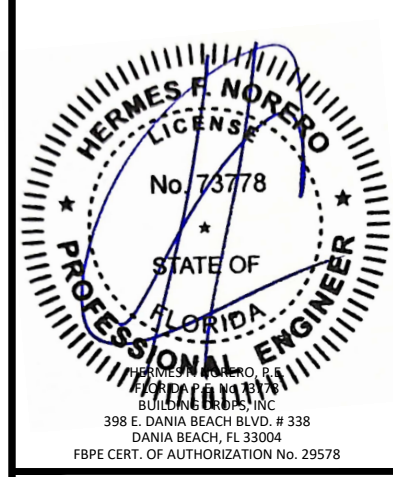
TITLE: IGLO ENERGY CLASSIC CASEMENT WINDOW (HVHZ) (IMPACT) GENERAL NOTES & GLAZING DETAILS

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



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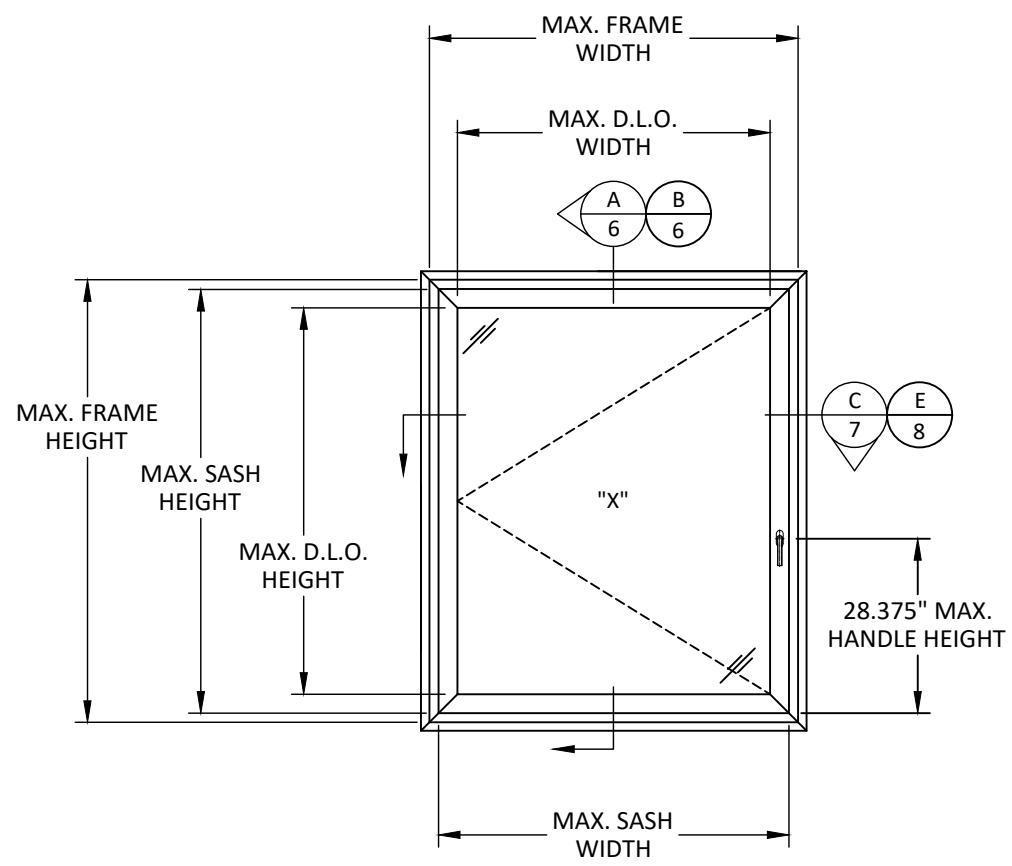
DWG. BY: SH	CHK. BY: HFN
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SCALE: **NTS**

DWG. #: **DRU015**

SHEET: **1**
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"X" ELEVATION

SASH HEIGHT = FRAME HEIGHT - 3.0"
 SASH WIDTH = FRAME WIDTH - 3.0"
 D.L.O. HEIGHT = FRAME HEIGHT - 8.8125"
 D.L.O. WIDTH = FRAME WIDTH - 8.8125"

DESIGN PRESSURE TABLE (PSF)			
NOMINAL DIMS.		GLASS TYPE 1	GLASS TYPE 2
FRAME WIDTH (in.)	FRAME HEIGHT (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36.0	54.0	55.0	70.0
42.0		55.0	70.0
48.0		55.0	70.0
54.0	60.0	50.9	64.8
36.0		55.0	70.0
42.0		55.0	70.0
48.0		55.0	70.0
54.0	66.0	50.9	64.8
36.0		55.0	70.0
42.0		55.0	70.0
48.0	72.0	55.0	70.0
54.0		55.0	70.0
36.0		55.0	70.0
42.0	78.0	55.0	70.0
48.0		55.0	70.0
36.0	84.0	55.0	70.0
42.0		55.0	70.0
36.0	90.0	55.0	70.0
36.0	96.0	55.0	70.0

NOTE: ALL PRESSURES MEET WATER INFILTRATION REQUIREMENTS.



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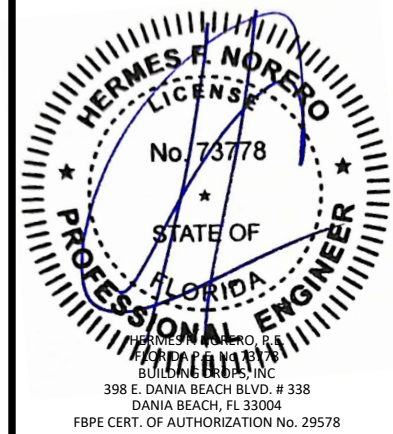
TITLE: IGL ENERGY CLASSIC CASEMENT WINDOW (HVHZ) (IMPACT) ELEVATION & DESIGN PRESSURE TABLE

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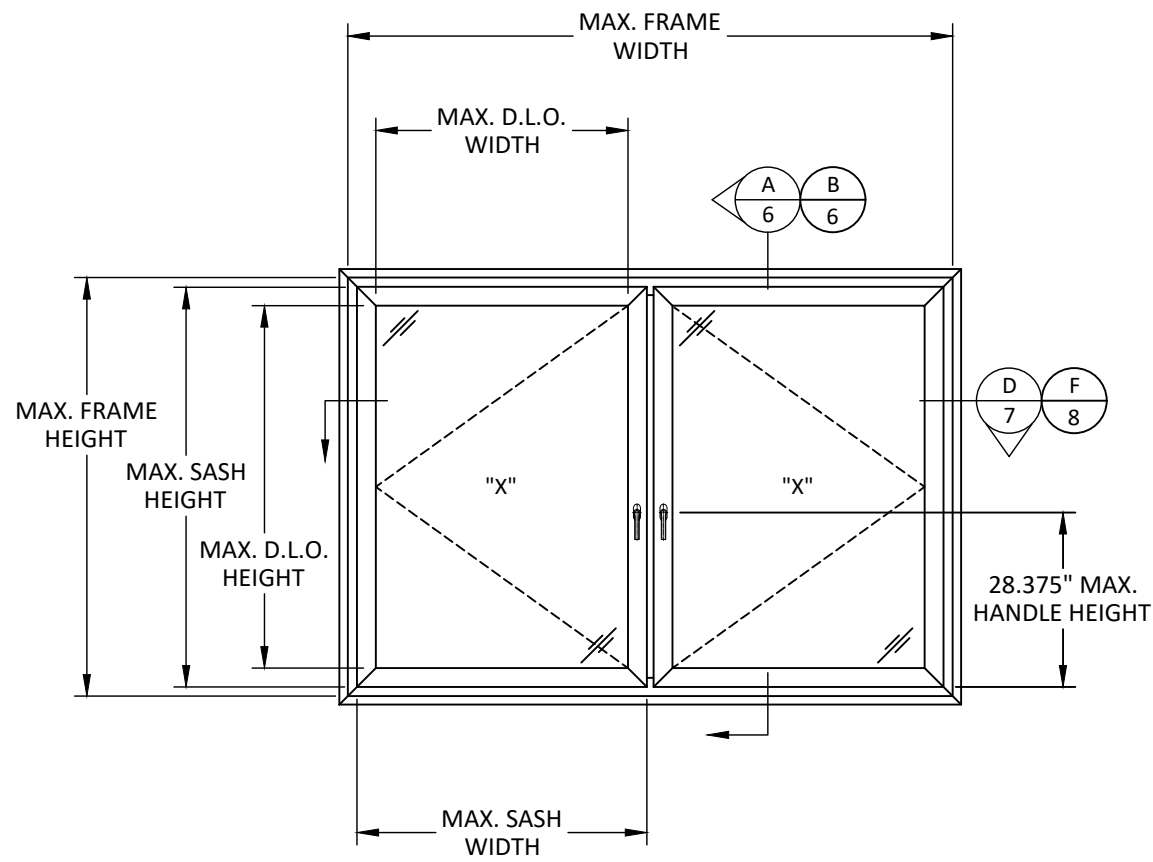
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SCALE: **NTS**

DWG. #: **DRU015**

SHEET: **2** OF 11

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"XX" ELEVATION

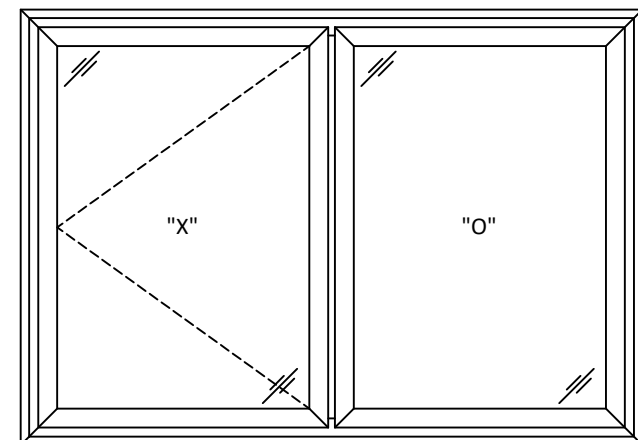
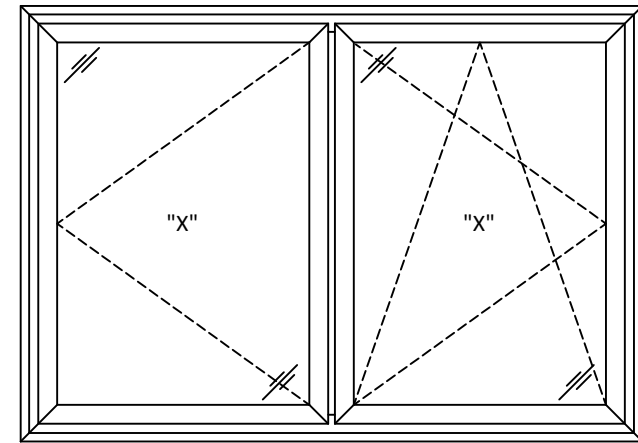
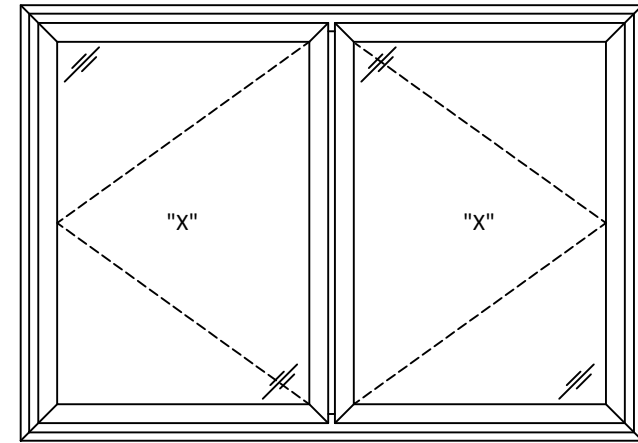
SASH HEIGHT = FRAME HEIGHT/2 - 3.0"
 SASH WIDTH = FRAME WIDTH/2 - 3.0"
 D.L.O. HEIGHT = FRAME HEIGHT/2 - 8.8125"
 D.L.O. WIDTH = FRAME WIDTH/2 - 8.8125"

DESIGN PRESSURE TABLE (PSF)			
NOMINAL DIMS.		GLASS TYPE 1	GLASS TYPE 2
FRAME WIDTH (in.)	FRAME HEIGHT (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
72.0	54.0	55.0	70.0
78.0		55.0	70.0
84.0		55.0	70.0
90.0		55.0	70.0
96.0		55.0	70.0
102.0		55.0	70.0
108.0		55.0	70.0
114.0		55.0	70.0
120.0	55.0	70.0	
126.0	60.0	55.0	70.0
132.0		55.0	70.0
72.0		55.0	70.0
78.0		55.0	70.0
84.0		55.0	70.0
90.0		55.0	70.0
96.0		55.0	70.0
102.0		55.0	70.0
108.0	55.0	70.0	
114.0	55.0	70.0	
120.0	55.0	70.0	

DESIGN PRESSURE TABLE (PSF)			
NOMINAL DIMS.		GLASS TYPE 1	GLASS TYPE 2
FRAME WIDTH (in.)	FRAME HEIGHT (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
72.0	66.0	55.0	70.0
78.0		55.0	70.0
84.0		55.0	70.0
90.0		55.0	70.0
96.0	72.0	55.0	70.0
102.0		55.0	70.0
108.0		55.0	70.0
114.0		55.0	70.0
120.0	78.0	55.0	70.0
72.0		55.0	70.0
78.0		55.0	70.0
84.0		55.0	70.0
90.0	84.0	55.0	70.0
96.0		55.0	70.0
102.0		55.0	70.0
108.0		55.0	70.0
114.0	90.0	55.0	70.0
120.0		55.0	70.0
72.0		55.0	70.0
78.0		55.0	70.0
84.0	96.0	55.0	70.0
90.0		55.0	70.0

NOTE: ALL PRESSURES MEET WATER INFILTRATION REQUIREMENTS.

QUALIFIED CONFIGURATIONS



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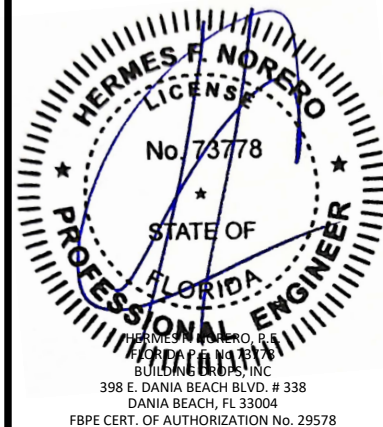
TITLE: **IGLO ENERGY CLASSIC CASEMENT WINDOW (HVHZ) (IMPACT) ELEVATION & DESIGN PRESSURE TABLE**

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 1900 NE MIAMI COURT, STE. 2-15
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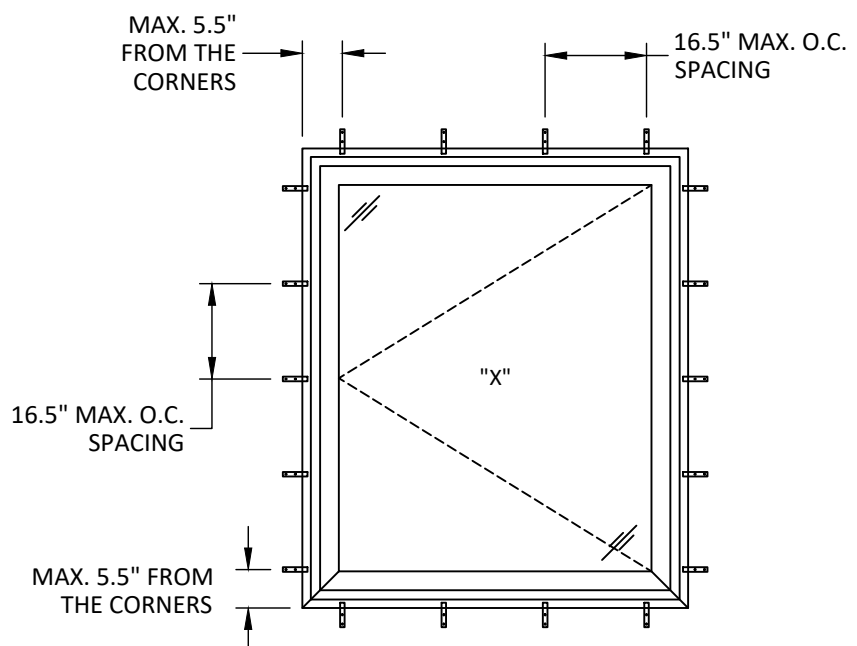
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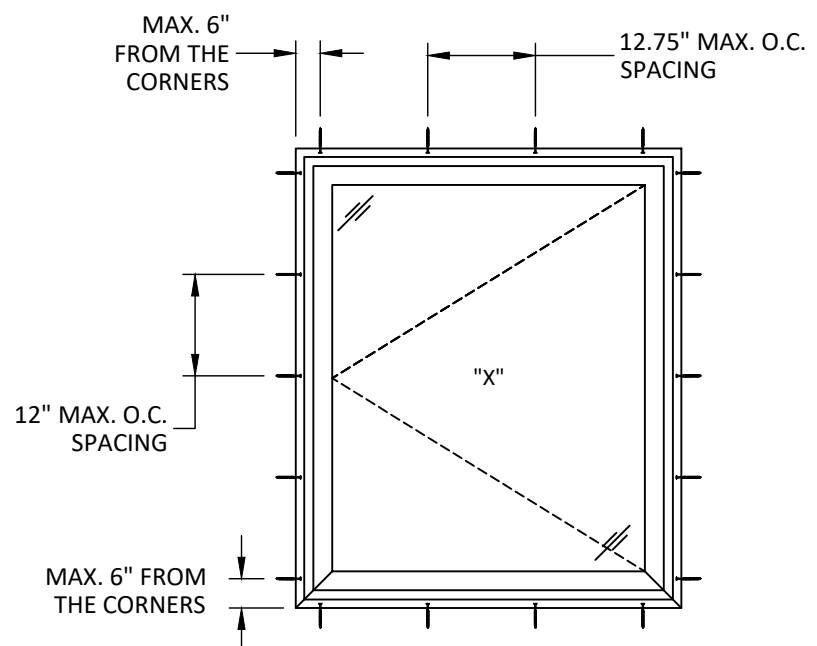
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INSTALLATION LEGEND:
 THROUGH FRAME/NAIL-FIN
 STRAP

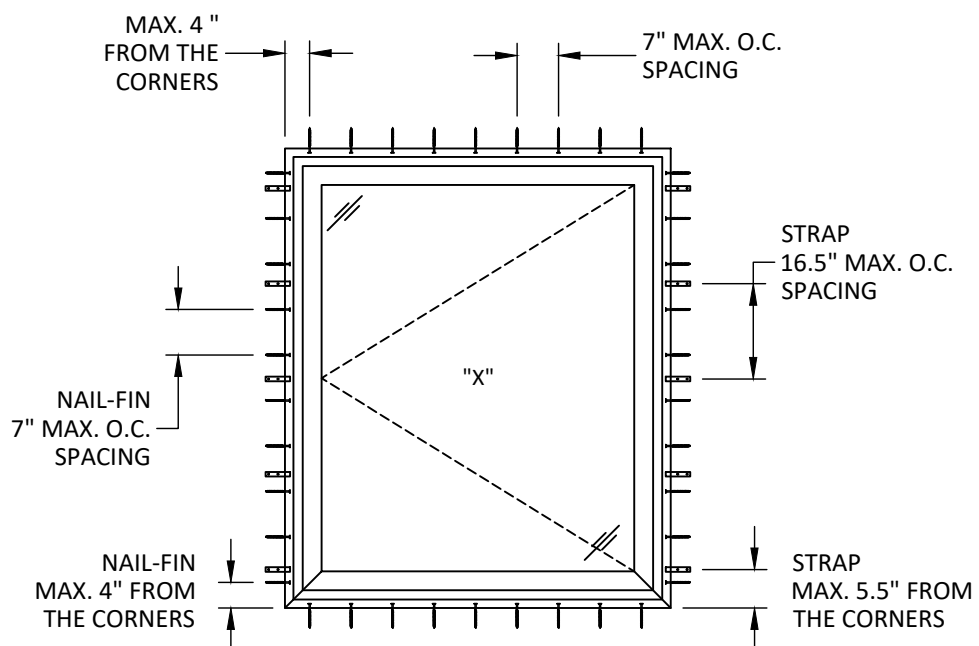


ANCHOR LAYOUT
STRAP INSTALLATION



ANCHOR LAYOUT
THROUGH FRAME INSTALLATION

NOTE: TWO (2) INSTALLATION ANCHORS PER STRAP LOCATION.



ANCHOR LAYOUT
NAIL-FIN & STRAP INSTALLATION

NOTE: WHEN NAIL-FIN INSTALLATION IS USED, STRAPS MUST BE USED AT THE JAMBS.



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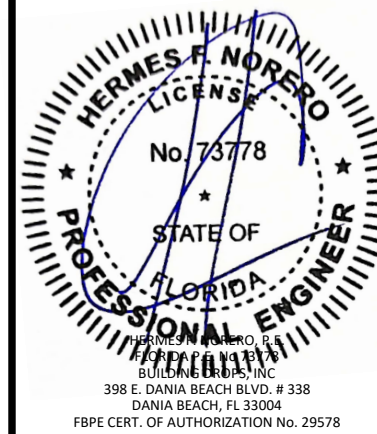
TITLE: IGLU ENERGY CLASSIC
CASEMENT WINDOW
(HVHZ) (IMPACT)
ANCHOR LAYOUTS

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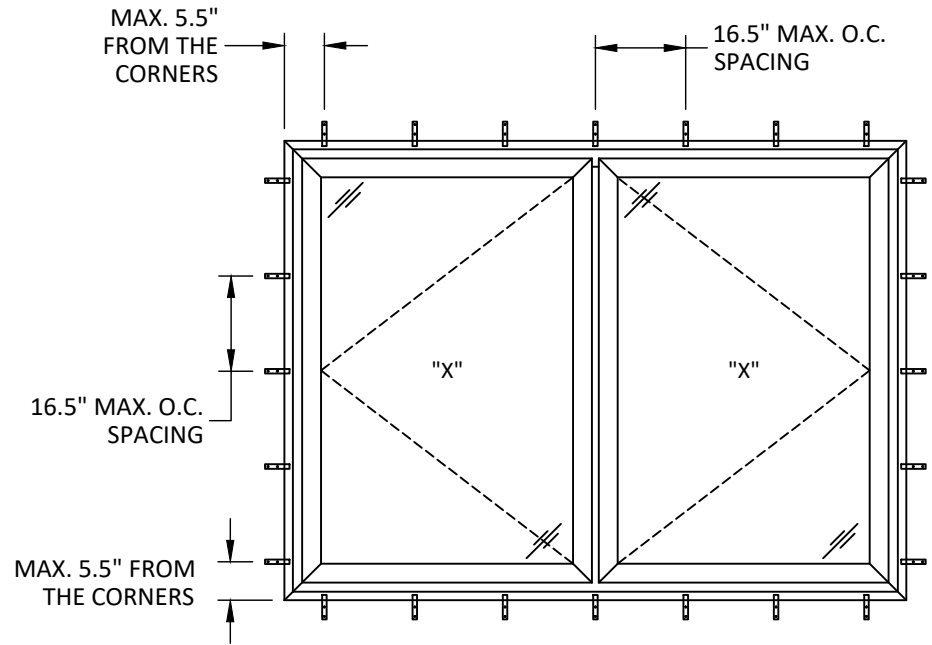
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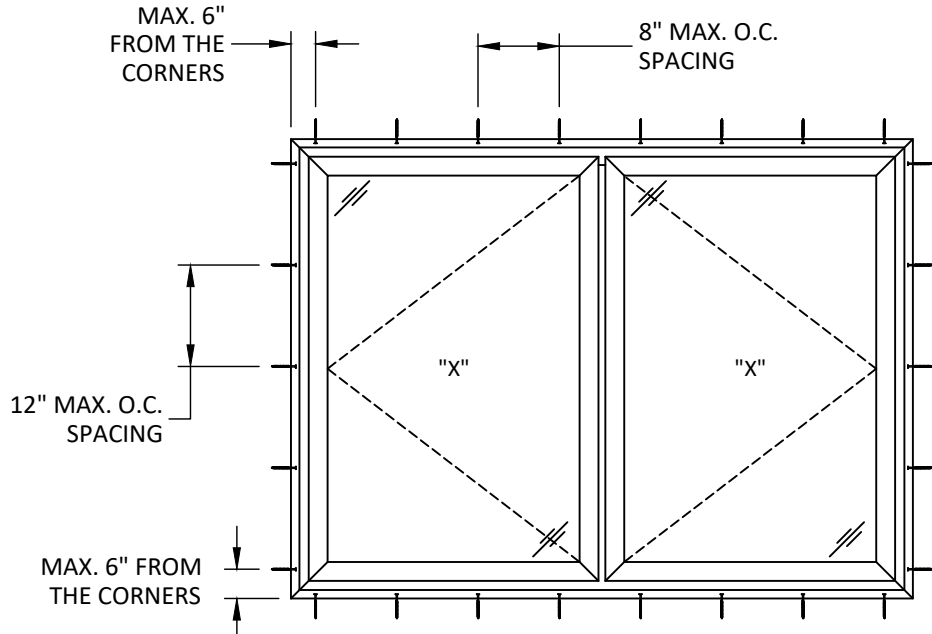
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OF 11

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INSTALLATION LEGEND:
 THROUGH FRAME/NAIL-FIN
 STRAP

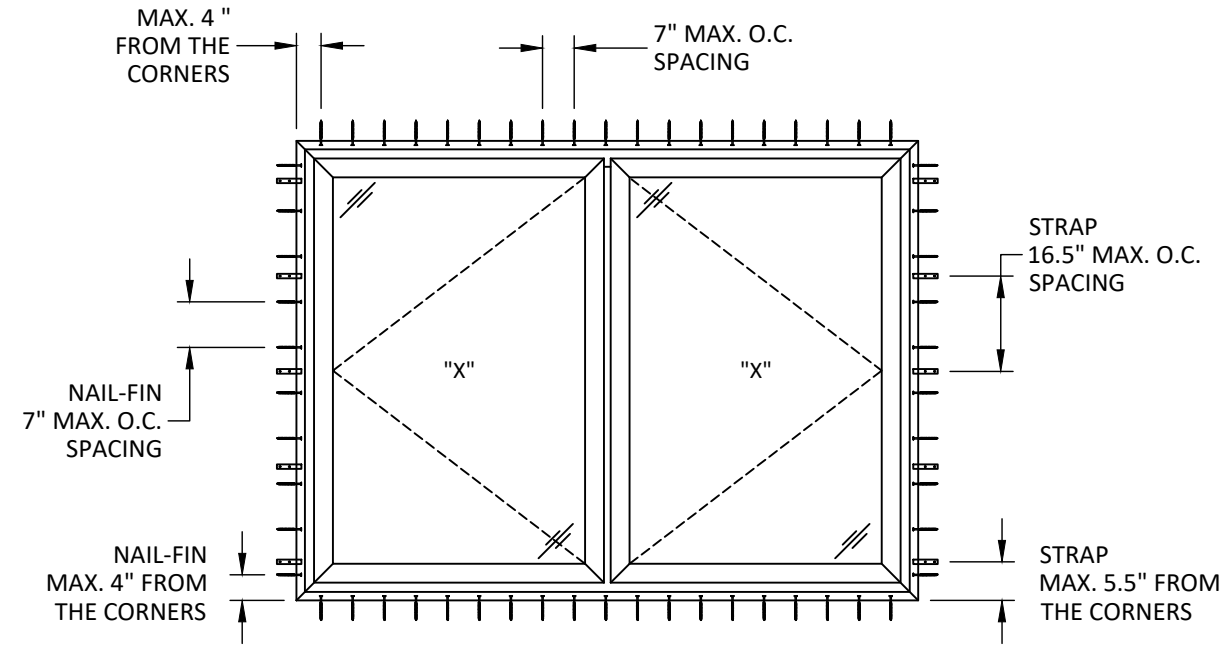


ANCHOR LAYOUT
STRAP INSTALLATION



ANCHOR LAYOUT
THROUGH FRAME INSTALLATION

NOTE: TWO (2) INSTALLATION ANCHORS PER STRAP LOCATION.



ANCHOR LAYOUT
NAIL-FIN & STRAP INSTALLATION

NOTE: WHEN NAIL-FIN INSTALLATION IS USED, STRAPS MUST BE USED AT THE JAMBS.



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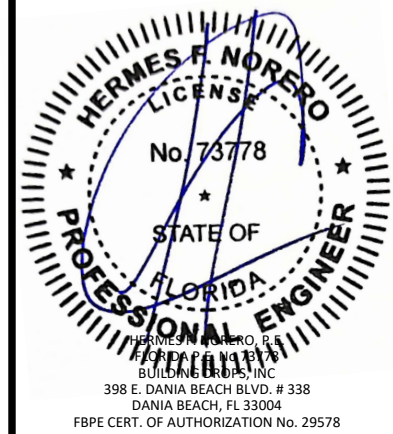
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CASEMENT WINDOW
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ANCHOR LAYOUTS

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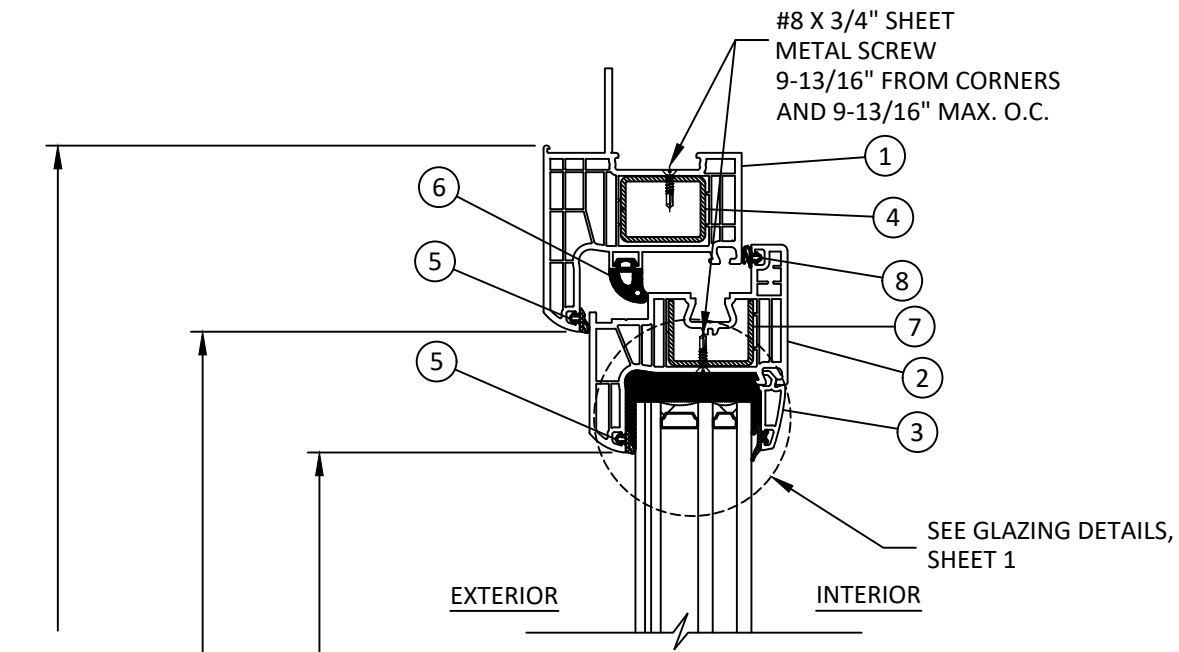
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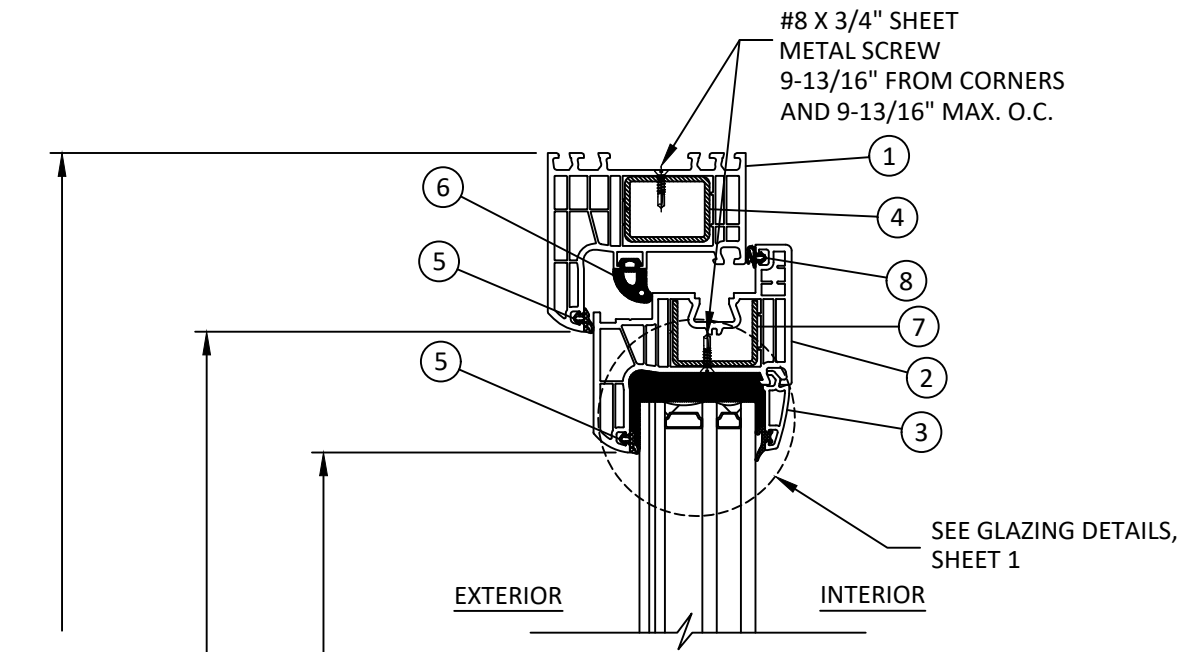
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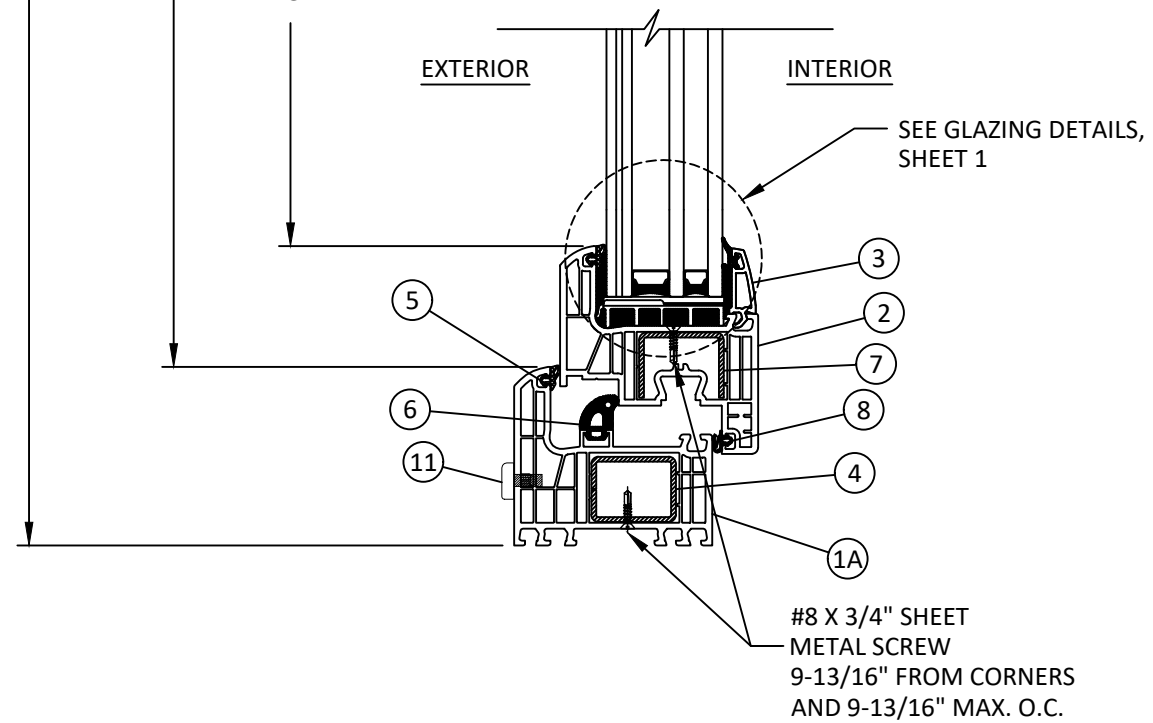
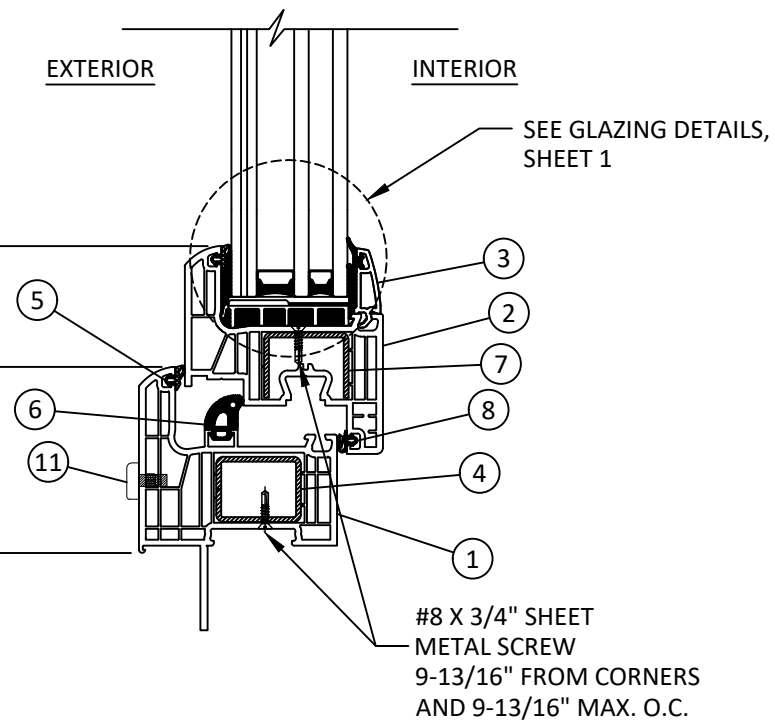
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A
6 VERTICAL SECTION
FIN SECTION DETAIL



B
6 VERTICAL SECTION
FINLESS SECTION DETAIL



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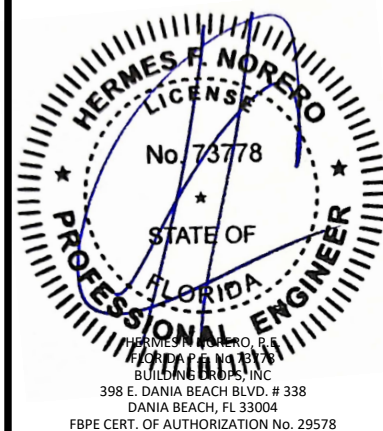
TITLE: IGLU ENERGY CLASSIC
CASEMENT WINDOW
(HVHZ) (IMPACT)
VERTICAL SECTIONS

PREPARED BY: BUILDING DROPS, INC.
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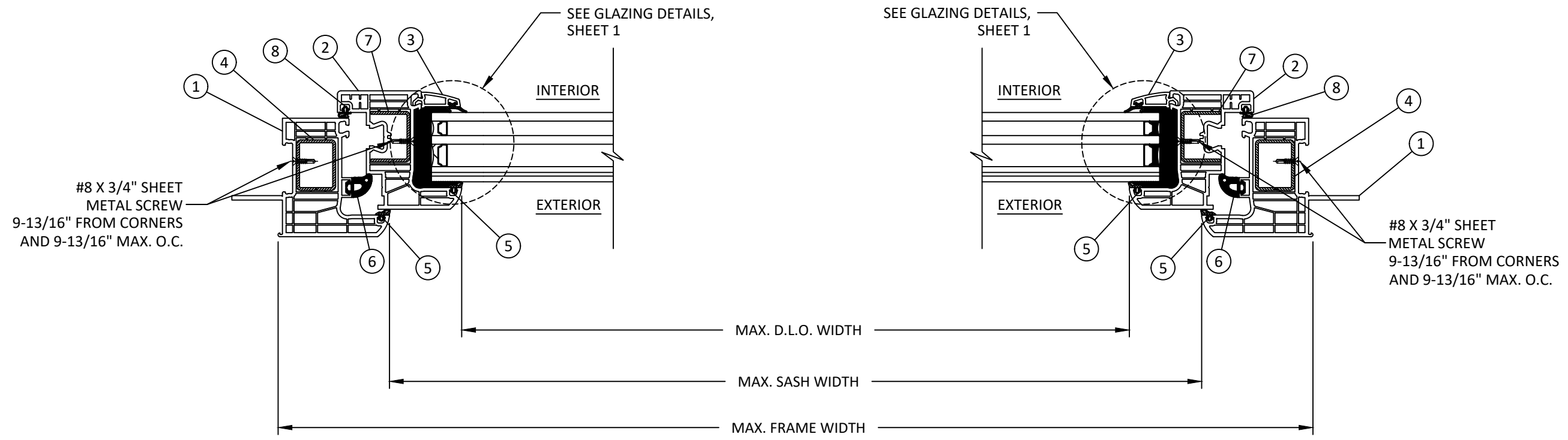
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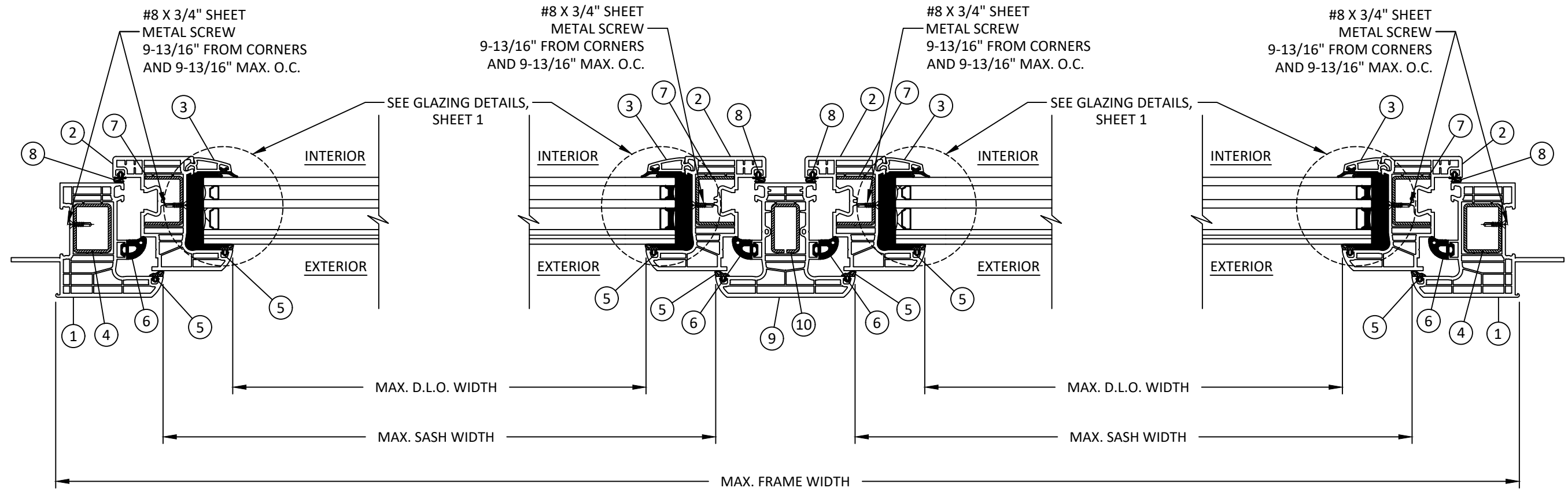
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C
7 HORIZONTAL SECTION
FIN SECTION DETAIL



D
7 HORIZONTAL SECTION
FIN SECTION DETAIL



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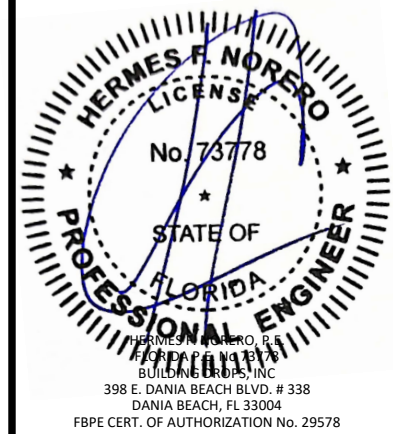
TITLE: IGL ENERGY CLASSIC
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(HVHZ) (IMPACT)
HORIZONTAL SECTIONS

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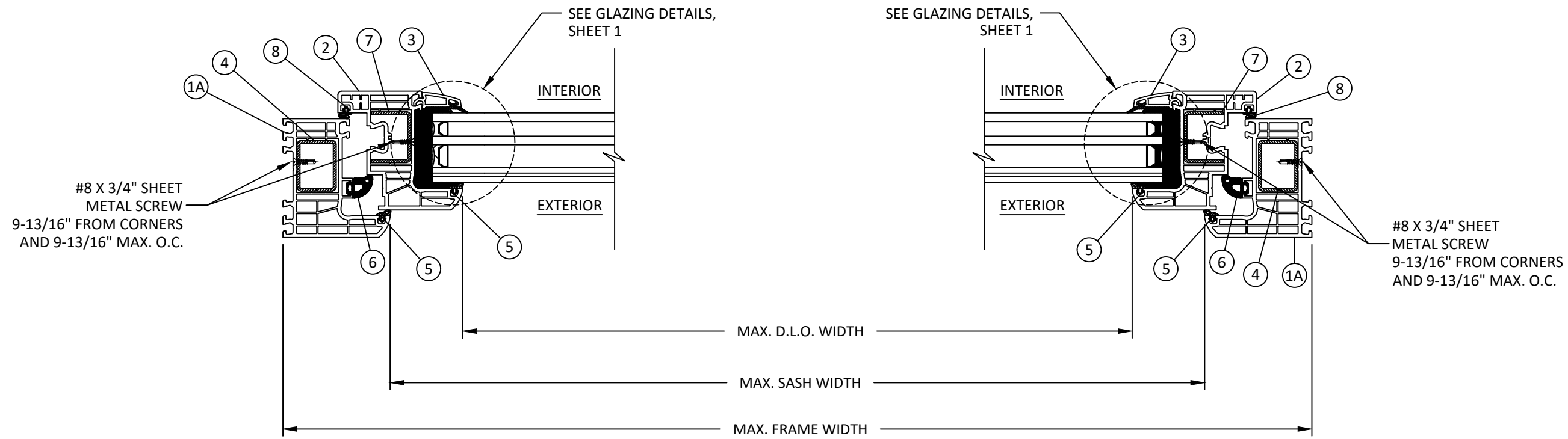
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SCALE: **NTS**

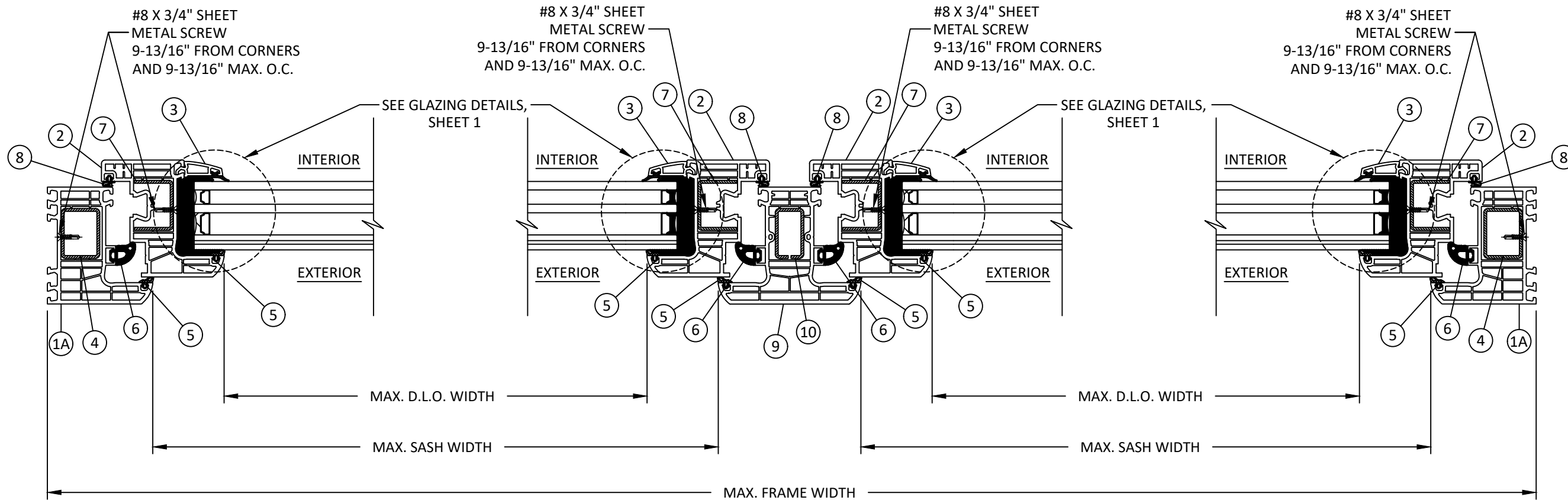
DWG. #: **DRU015**

SHEET: **7**

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E HORIZONTAL SECTION
 8 FINLESS SECTION DETAIL



F HORIZONTAL SECTION
 8 FINLESS SECTION DETAIL



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TITLE: IGL ENERGY CLASSIC
 CASEMENT WINDOW
 (HVHZ) (IMPACT)
 HORIZONTAL SECTIONS
 CONTINUED

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 1900 NE MIAMI COURT, STE. 2-15
 MIAMI, FL 33132
 PH: (954)399-8478
 FAX: (954)744-4738
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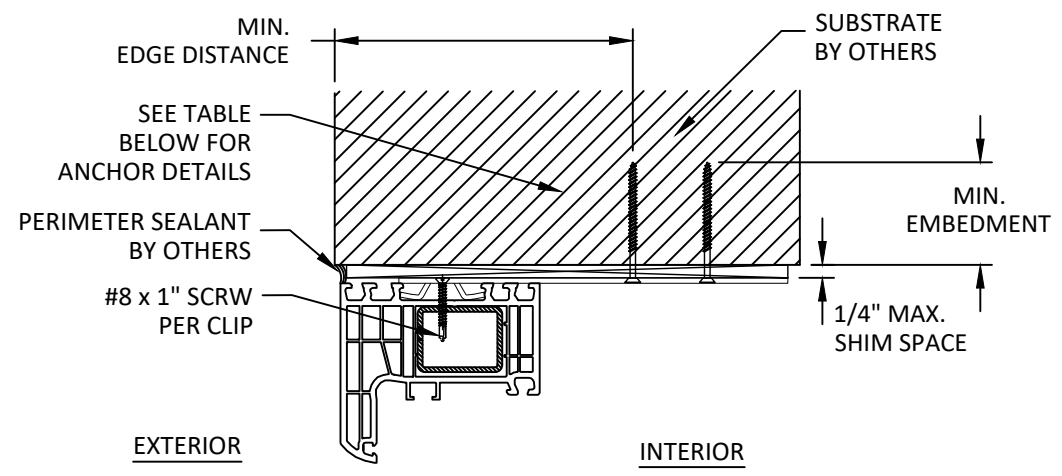
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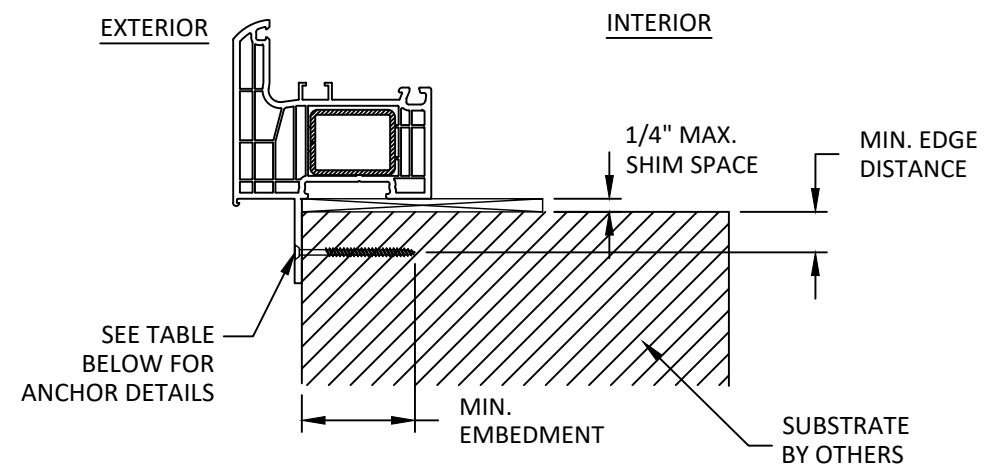
FL #:	FL41837
DATE:	12.12.2022
DWG. BY:	SH
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	DRU015
SHEET:	8

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A
9 VERTICAL SECTION
HEAD - STRAP

NOTE: SILL & JAMB SIMILAR



B
9 VERTICAL SECTION
SILL - NAIL-FIN

NOTE: HEAD & JAMB SIMILAR

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED ON SHEETS 4 & 5.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1.000 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 SCHEDULE	MIN EMBEDMENT	MIN. EDGE DISTANCE	SPACING
NAIL-FIN	WOOD: MIN. SG = 0.55	#8 WOOD SCREW	1.50"	0.75"	SEE SHEET 3
	METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	#8 SELF-DRILLING SCREW	3 THREADS MIN PENETRATION BEYOND STRUCTURE	0.50"	
	CONCRETE: fc=3000PSI	3/16" ITW TAPCON	1.25"	2.00"	
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI	3/16" ITW TAPCON	1.00"	2.00"	
STRAP OR THROUGH FRAME	WOOD: MIN. SG = 0.55	#10 WOOD SCREW	1.50"	0.75"	SEE SHEET 3
	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: fc=3000PSI	3/16" ITW TAPCON	1.25"	2.00"	
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI	3/16" ITW TAPCON	1.00"	2.00"	



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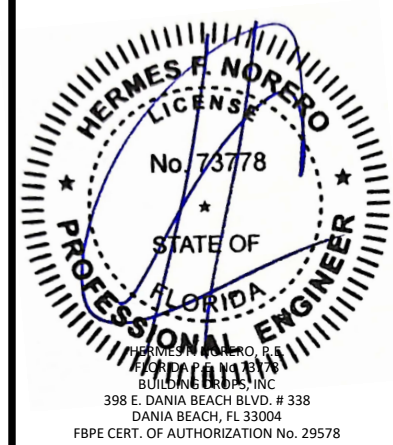
TITLE: IGL ENERGY CLASSIC
CASEMENT WINDOW
(HVHZ) (IMPACT)
ANCHOR DETAILS &
INSTALLATION NOTES

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HERMES F. NORERO, R.
REGISTERED PROFESSIONAL ENGINEER
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL41837**

DATE: **12.12.2022**

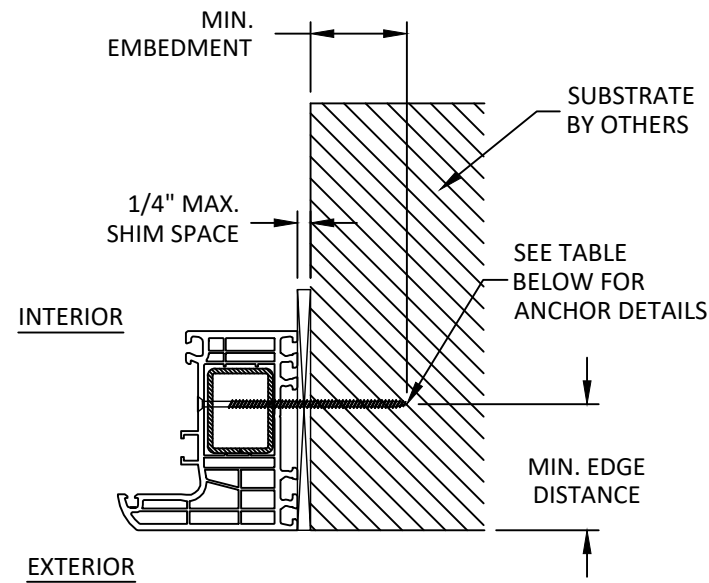
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SCALE: **NTS**

DWG. #: **DRU015**

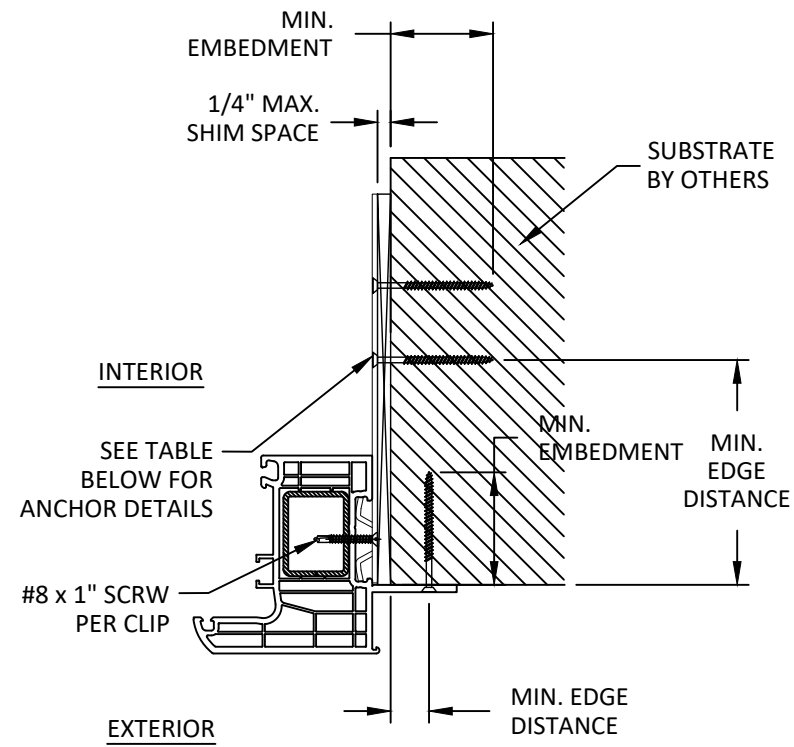
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C
10 HORIZONTAL SECTION
JAMB - THROUGH FRAME

NOTE: HEAD & SILL SIMILAR



D
10 HORIZONTAL SECTION
JAMB - NAIL-FIN & STRAP



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CASEMENT WINDOW
(HVHZ) (IMPACT)
ANCHOR DETAILS
CONTINUED

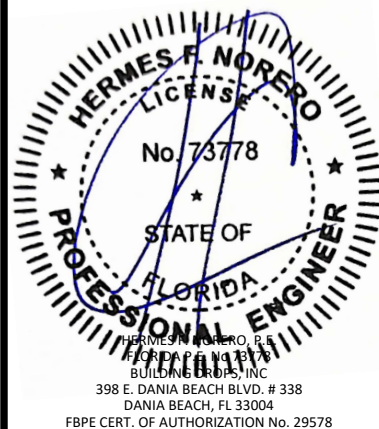
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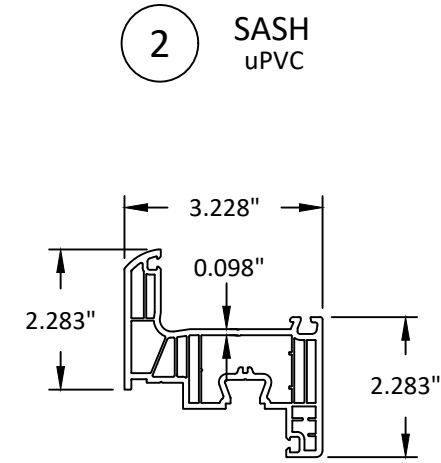
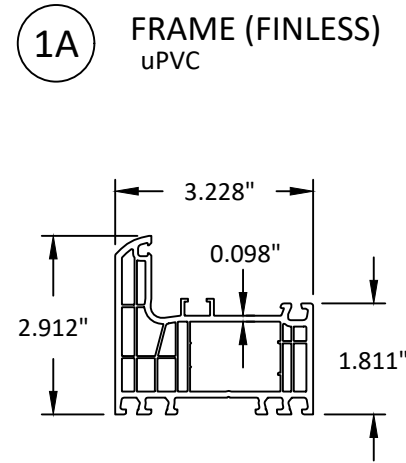
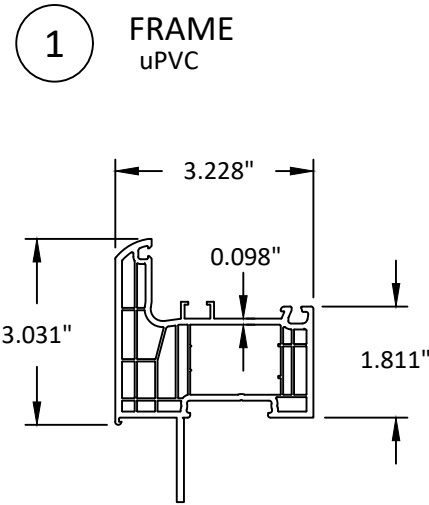
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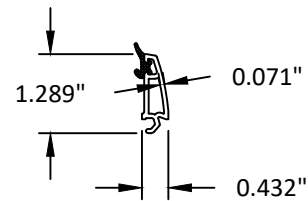
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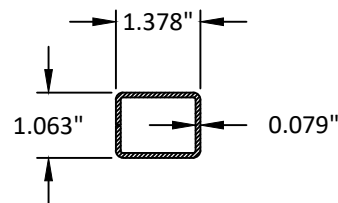
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ITEM	PART NO.	DESCRIPTION	MATERIAL
1	70009	FRAME (FIN)	uPVC
1A	70001	FRAME (FINLESS)	uPVC
2	70013	SASH	uPVC
3	70948	GLAZING BEAD	uPVC
4	250030	FRAME REINFORCEMENT	STEEL
5	U-001	GASKET	EPDM
6	U-007	GASKET	EPDM
7	250026	SASH REINFORCEMENT	STEEL
8	U-002	GASKET	EPDM
9	70021	MULLION	uPVC
10	250101	MULLION REINFORCEMENT	STEEL
11	-	DRAIN PLUG	ASA
12	-	STRAP	STEEL
13	-	MACO HARDWARE	GALVANIZED STEEL



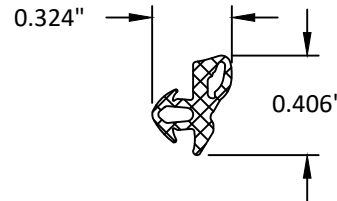
3 GLAZING BEAD uPVC



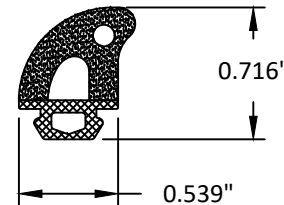
4 FRAME REINFORCEMENT STEEL



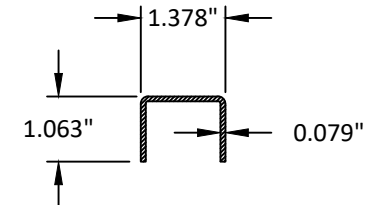
5 GASKET EPDM



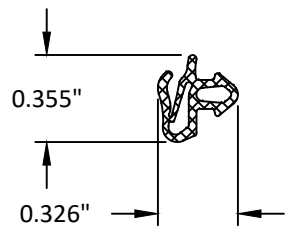
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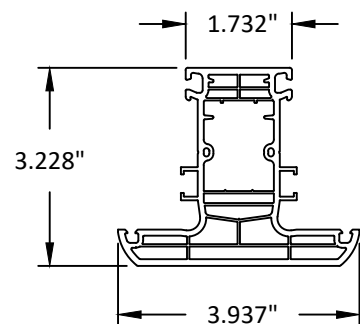
7 SASH REINFORCEMENT STEEL



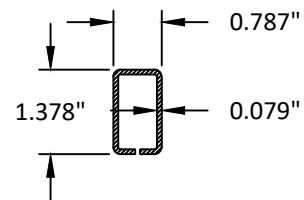
8 GASKET EPDM



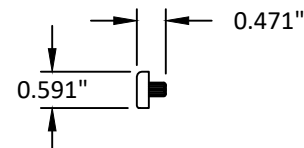
9 MULLION uPVC



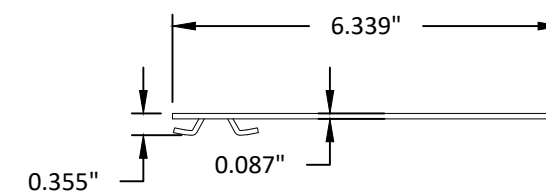
10 MULLION REINFORCEMENT STEEL



11 DRAIN PLUG ASA



12 STRAP STEEL



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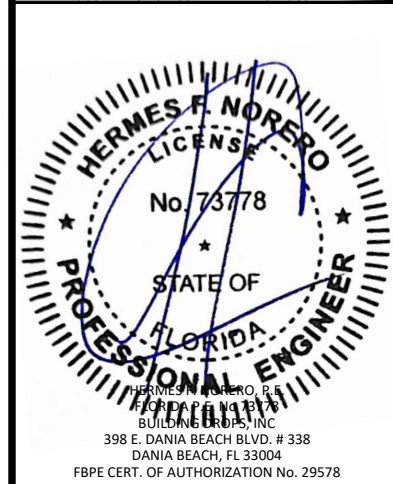
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