

c:\users\dylanwata\building drops, inc\building drops landing - common\projects\condado window\fbc-22-1029 - fbc submittal - revision - 325 series fx, cs, po windows & ultra 400 series os entrance door\dwgs\casement window\cdw007.dwg 5/2/2024 11:44 AM

CONDADO WINDOW

325 SERIES GEN 2 CASEMENT WINDOW

(HVHZ) (IMPACT)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
- ASTM E283-19

• ASTM E330-14(21)

• ASTM E331-00(23)

• ASTM E1886-19

• ASTM E1996-23

• ASTM F588-17

• TAS 201-94

• TAS 202-94

• TAS 203-94
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY OR 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 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. 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.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:

X: OPERABLE VENT

O: FIXED VENT
7. WINDOW FRAME MATERIAL: ALUMINUM 6063-T6
8. DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED IN ACCORDANCE WITH FBC.
9. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS SEE SHEET 3 FOR GLAZING DETAILS

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES
2	ELEVATIONS AND ANCHOR LAYOUT
3	GLAZING DETAILS AND DP TABLES
4	MULLION DP TABLE
5	VERTICAL SECTIONS
6	HORIZONTAL SECTIONS
7	ANCHOR DETAILS, INSTALLATION NOTES & ANCHOR SCHEDULE

DESIGN PRESSURE RATING	
DESIGN PRESSURE	MISSILE IMPACT RATING
SEE SHEET 3 & 4	LARGE & SMALL MISSILE IMPACT RATED



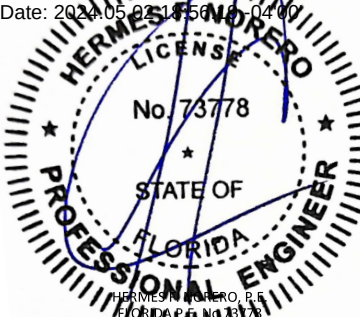
CONDADO WINDOW
903RH TODD AVENUE SAN JUAN,
PUERTO RICO 00907
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TITLE: 325 SERIES GEN 2 CASEMENT WINDOW (HVHZ)/(IMPACT)

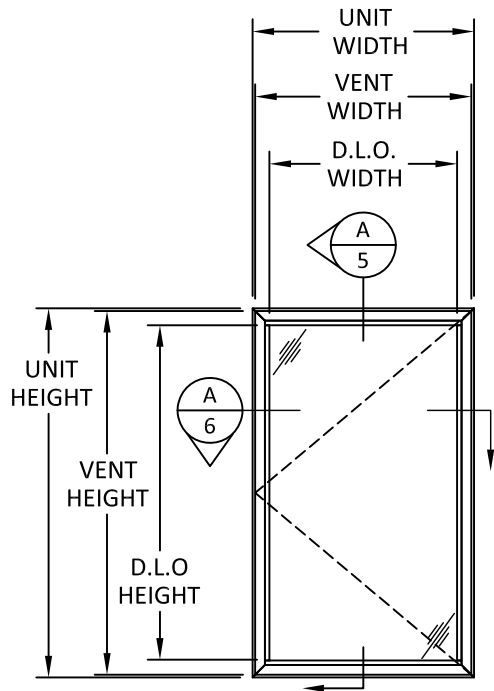
GENERAL NOTES

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

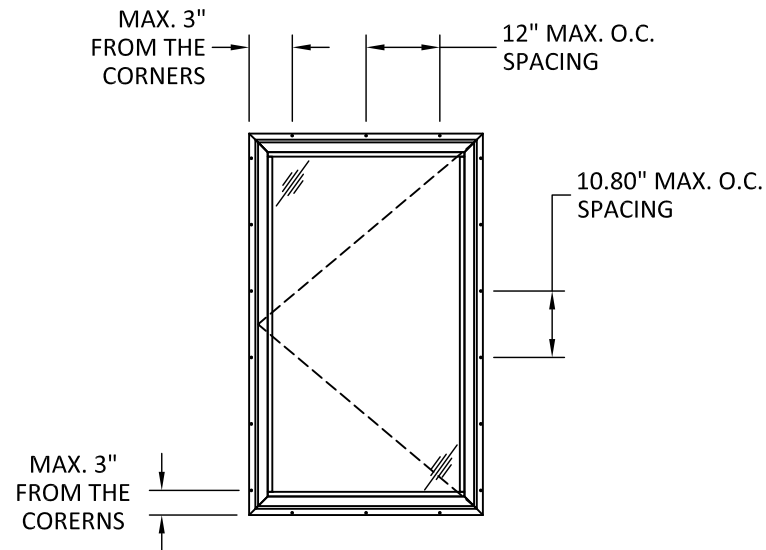


REMARKS	BY	DATE
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Digitally signed by Hermes F. Norero, P.E. Reason: I am approving this document Date: 2024.05.02 11:56:40 -0400		
 HERMES F. NORERO, P.E. 1900 NE MIAMI COURT, SUITE 2-15 MIAMI, FL 33132 FBPE CERT. OF AUTHORIZATION No. 29578		
FL #:		
FL40551		
DATE: 04.15.24		
DWG. BY: DI	CHK. BY: HFN	
SCALE: NTS		
DWG. #: CDW007		
SHEET:		
1		
OF 7		

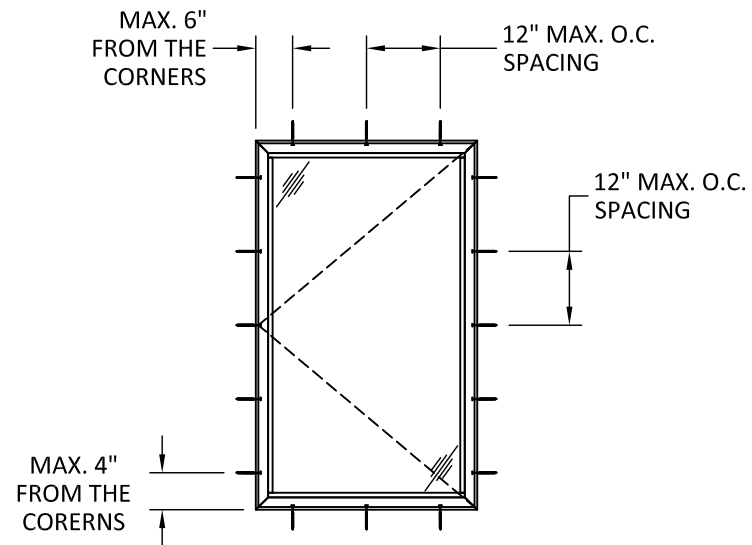
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ELEVATION
CASEMENT WINDOW

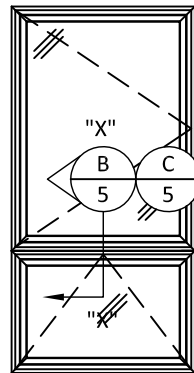


ANCHOR LAYOUT
NAIL FIN

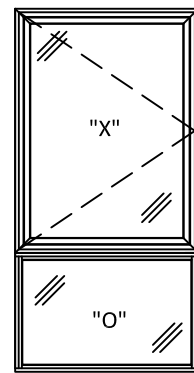


ANCHOR LAYOUT
THROUGH FRAME

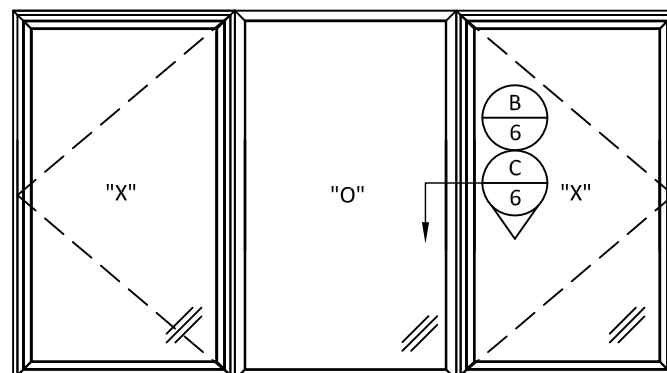
D.L.O WIDTH = WINDOW WIDTH - 5-1/2"
D.L.O HEIGHT = WINDOW HEIGHT - 5-1/2"
VENT WIDTH = WINDOW WIDTH - 7/8"
VENT HEIGHT = WINDOW HEIGHT - 7/8"



PROJECTED



PICTURE WINDOW



MULTIPLE COMBINATIONS

TYPICAL APPROVED CONFIGURATIONS

NOTE:
EXAMPLE CONFIGURATIONS SHOWN. OTHER CONFIGURATIONS ARE QUALIFIED USING MULLIONS SHOWN HEREIN. CONFIGURATIONS SHALL BE LIMITED TO THE LOWEST DESIGN PRESSURE AS DETERMINED BY THIS WINDOW APPROVAL, MULLION CAPACITY CHART, AND WINDOWS UNDER SEPARATE APPROVAL.



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PUERTO RICO 00907
PH: (787)723-5469 FAX: (787)722-1395

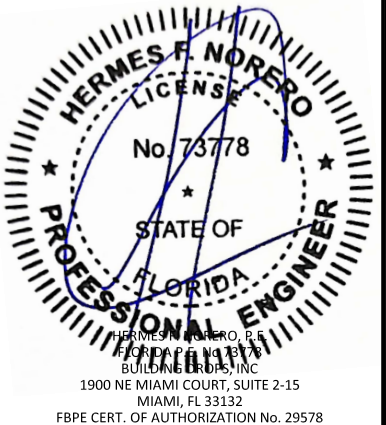
TITLE: 325 SERIES GEN 2
CASEMENT WINDOW
(HVHZ)/(IMPACT)
ELEVATIONS AND
ANCHOR LAYOUT

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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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SCALE: **NTS**

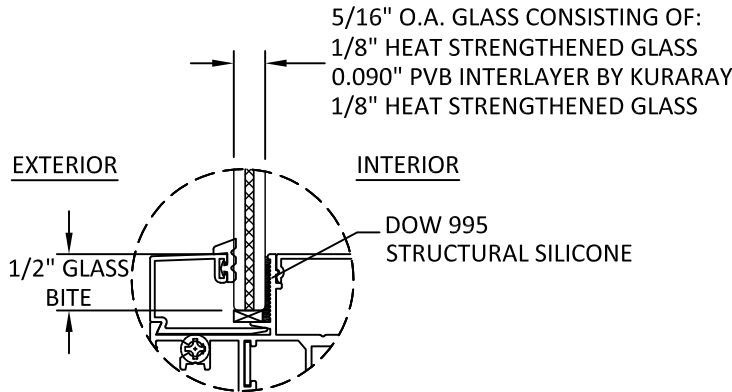
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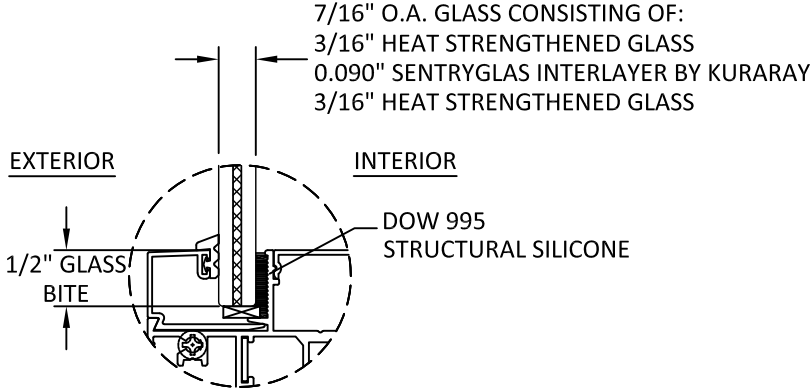
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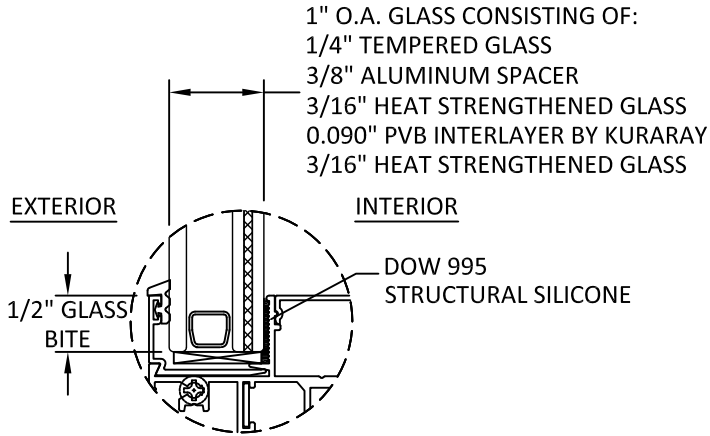
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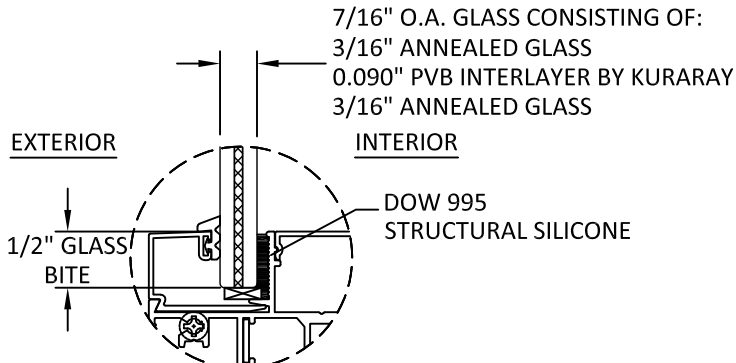
GLAZING DETAIL: G1



GLAZING DETAIL: G2



GLAZING DETAIL: G3



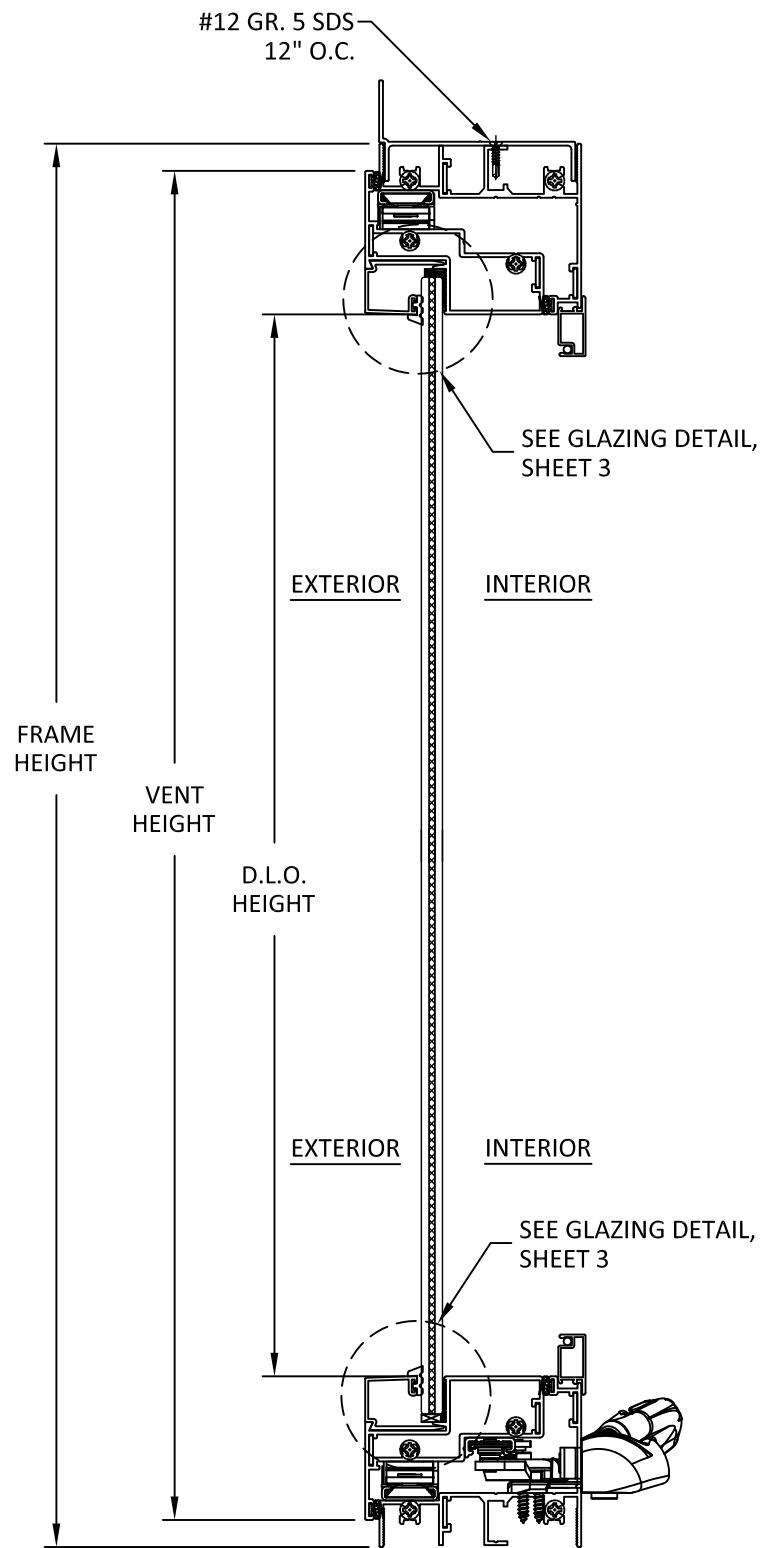
GLAZING DETAIL: G4

- GLAZING NOTES:
- GLASS TYPE AND THICKNESS COMPLIES WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. THICKNESS, TEMPER, AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
 - SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
 - SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
 - D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES SHOWN ON SHEET 3.

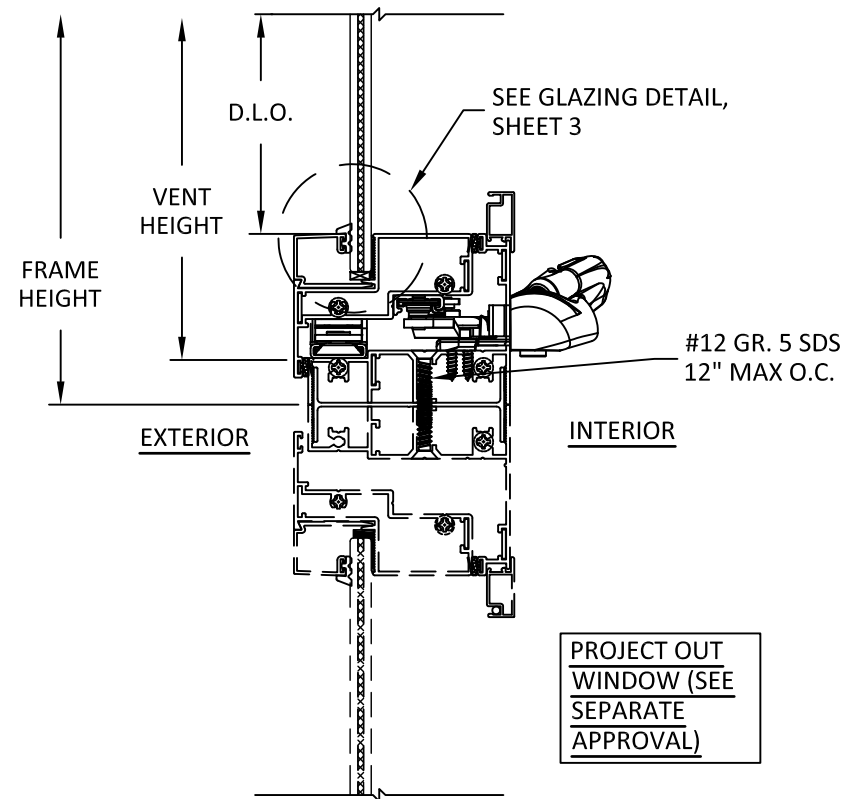
CASEMENT DESIGN PRESSURE TABLE				
FRAME WIDTH (IN.)	FRAME HEIGHT (IN.)	GLASS TYPE G1 (PSF)	GLASS TYPE G2 & G3 (PSF)	GLASS TYPE G4 (PSF)
24	36	85.00	115.00	95.00
27		85.00	115.00	95.00
30		85.00	115.00	95.00
33		85.00	115.00	95.00
36		85.00	115.00	95.00
39		85.00	115.00	95.00
42		85.00	115.00	95.00
45		85.00	115.00	95.00
48		85.00	115.00	95.00
51		85.00	115.00	95.00
54	39	85.00	115.00	95.00
57		85.00	115.00	95.00
60		85.00	115.00	95.00
24		85.00	115.00	95.00
27		85.00	115.00	95.00
30		85.00	115.00	95.00
33		85.00	115.00	95.00
36		85.00	115.00	95.00
39		77.39	104.70	86.49
42		77.39	104.70	86.49
45	42	77.39	104.70	86.49
48		77.39	104.70	86.49
51		77.39	104.70	86.49
54		77.39	104.70	86.49
57		77.39	-	-
60		77.39	-	-
24		85.00	115.00	95.00
27		85.00	115.00	95.00
30		85.00	115.00	95.00
33		85.00	115.00	95.00
36	45	85.00	115.00	95.00
39		77.39	104.70	86.49
42		71.03	96.10	79.38
45		71.03	96.10	79.38
48		71.03	96.10	79.38
51		71.03	-	-
54		71.03	-	-
57		71.03	-	-
60		71.03	-	-
24	48	85.00	115.00	95.00
27		85.00	115.00	95.00
30		85.00	115.00	95.00
33		85.00	115.00	95.00
36		85.00	115.00	95.00
39		77.39	104.70	86.49
42		71.03	96.10	79.38
45		65.63	88.80	73.35
48		65.63	-	-
51		65.63	-	-
54	51	65.63	-	-
57		61.00	-	-
60		61.00	-	-
24		85.00	115.00	95.00
27		85.00	115.00	95.00
30		85.00	115.00	95.00
33		85.00	115.00	95.00
36		85.00	115.00	95.00
39		77.39	104.70	86.49
42		71.03	96.10	79.38
45		65.63	-	-
48		61.00	-	-
51		61.00	-	-
54		61.00	-	-

CASEMENT DESIGN PRESSURE TABLE							
FRAME WIDTH (IN.)	FRAME HEIGHT (IN.)	GLASS TYPE G1 (PSF)	GLASS TYPE G2 & G3 (PSF)	GLASS TYPE G4 (PSF)			
24	54	85.00	115.00	95.00			
27		85.00	115.00	95.00			
30		85.00	115.00	95.00			
33		85.00	115.00	95.00			
36		85.00	115.00	95.00			
39		77.39	104.70	86.49			
42		71.03	-	-			
45		65.63	-	-			
24	57	85.00	115.00	95.00			
27		85.00	115.00	95.00			
30		85.00	115.00	95.00			
33		85.00	115.00	95.00			
36		85.00	115.00	95.00			
39		77.39	-	-			
42		71.03	-	-			
24		60	85.00	115.00	95.00		
27	85.00		115.00	95.00			
30	85.00		115.00	95.00			
33	85.00		115.00	95.00			
36	85.00		115.00	95.00			
39	77.39		-	-			
42	71.03		-	-			
24	63		85.00	115.00	95.00		
27		85.00	115.00	95.00			
30		85.00	115.00	95.00			
33		85.00	115.00	95.00			
36		85.00	-	-			
39		77.39	-	-			
24		66	85.00	115.00	95.00		
27			85.00	115.00	95.00		
30	85.00		115.00	95.00			
33	85.00		-	-			
36	85.00		-	-			
39	77.39		-	-			
24	69		85.00	115.00	95.00		
27			85.00	115.00	95.00		
30		85.00	115.00	95.00			
33		85.00	-	-			
36		85.00	-	-			
24		72	85.00	115.00	95.00		
27			85.00	115.00	95.00		
30			85.00	115.00	95.00		
33	85.00		-	-			
36	85.00		-	-			
24	75		85.00	115.00	95.00		
27			85.00	115.00	95.00		
30			85.00	-	-		
33		85.00	-	-			
24		78	85.00	115.00	95.00		
27			85.00	115.00	95.00		
30			85.00	-	-		
33			85.00	-	-		
24	81		85.00	115.00	95.00		
27			85.00	115.00	95.00		
30			85.00	-	-		
24			84	85.00	115.00	95.00	
27		85.00		-	-		
30		85.00		-	-		
24		87		85.00	115.00	95.00	
27				85.00	-	-	
30	85.00			-	-		
24	90			85.00	115.00	95.00	
27				85.00	-	-	
24			93	85.00	115.00	95.00	
27				85.00	-	-	
24				96	85.00	-	-
27		85.00			-	-	
24		99			85.00	-	-
27					85.00	-	-
24	102				85.00	-	-
27					85.00	-	-
24			105		85.00	-	-
27					85.00	-	-
24				108	85.00	-	-
27					85.00	-	-

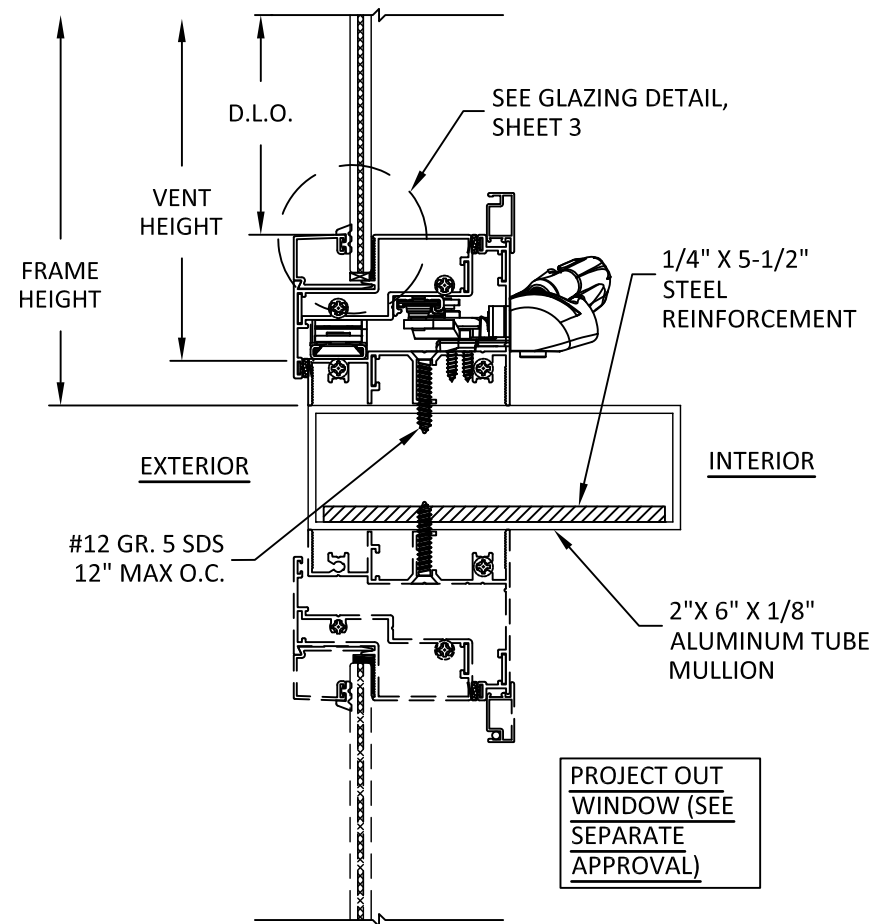
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A
5 **VERTICAL SECTION**
CASEMENT



B
5 **VERTICAL SECTION**
DHT-MULLION



C
5 **VERTICAL SECTION**
TUBE MULLION



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TITLE: 325 SERIES GEN 2
CASEMENT WINDOW
(HVHZ)/(IMPACT)

VERTICAL SECTIONS

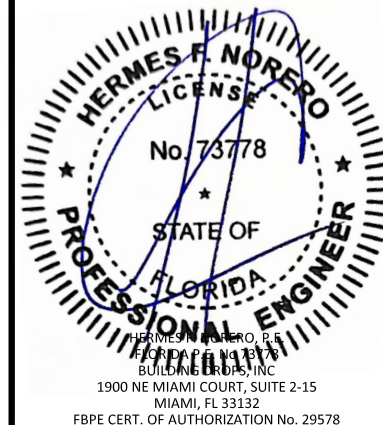
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REMARKS	BY	DATE

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FL #: **FL40551**

DATE: **04.15.24**

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SCALE: **NTS**

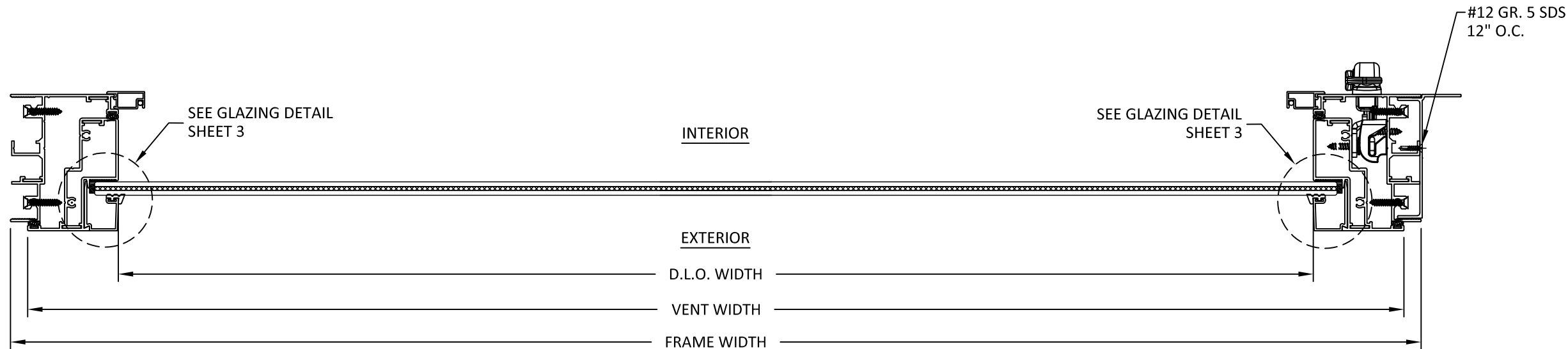
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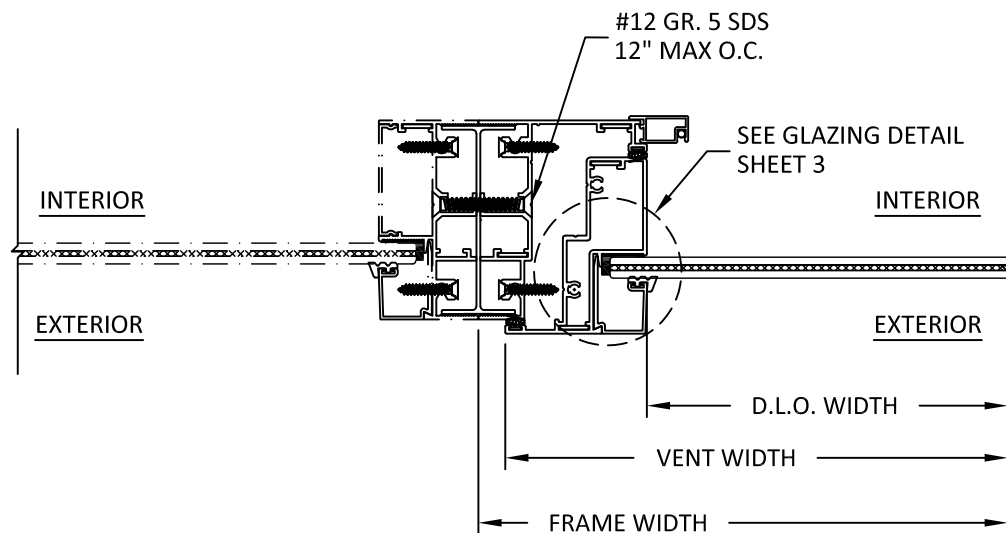
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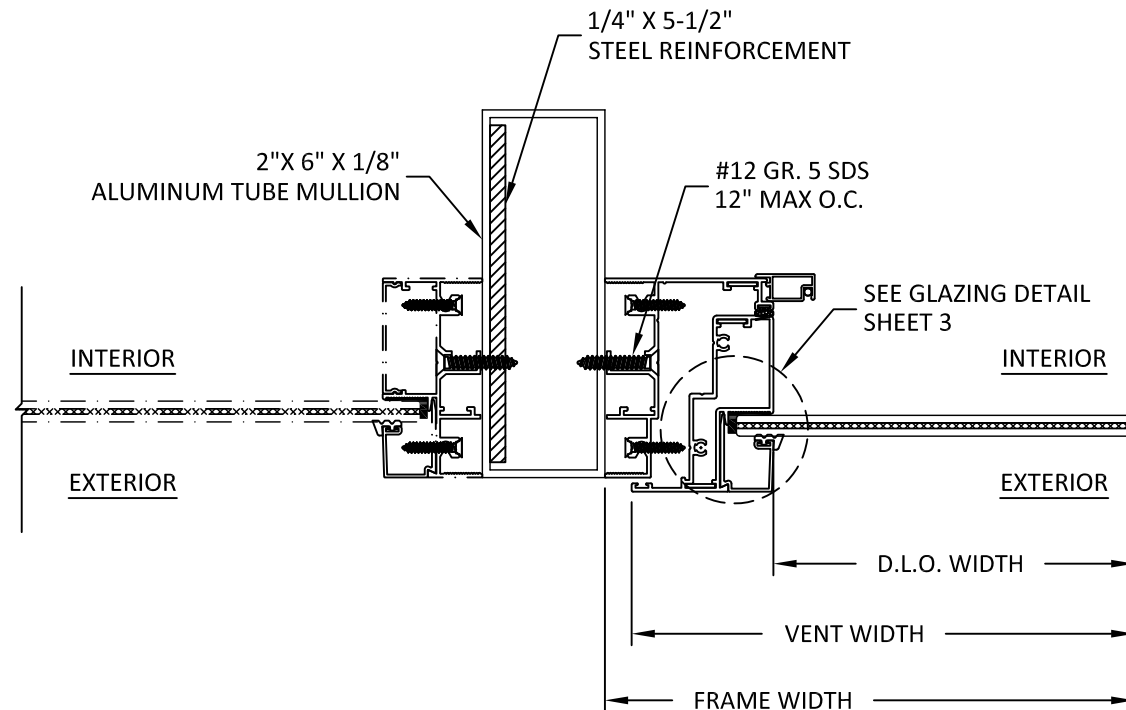


A
6 **HORIZONTAL SECTION**
CASEMENT



FIXED
WINDOW (SEE
SEPARATE
APPROVAL)

B
6 **HORIZONTAL SECTION**
DHT-MULLION



FIXED
WINDOW (SEE
SEPARATE
APPROVAL)

C
6 **HORIZONTAL SECTION**
TUBE MULLION



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CASEMENT WINDOW
(HVHZ)/(IMPACT)

HORIZONTAL SECTIONS

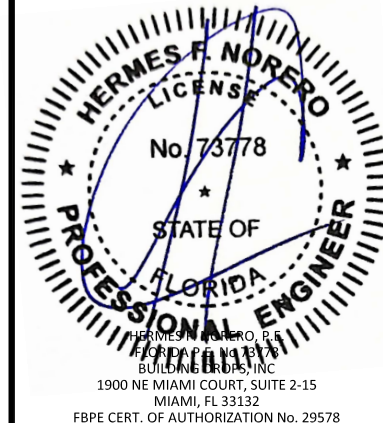
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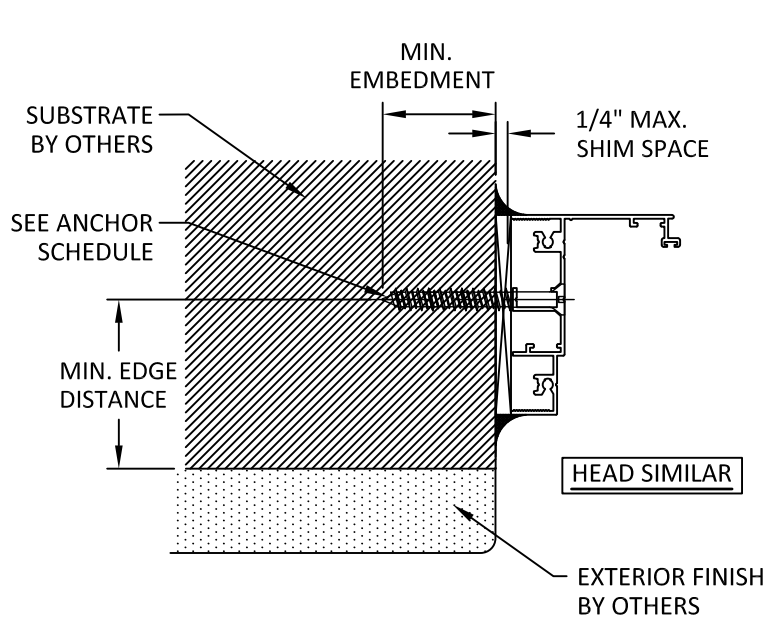
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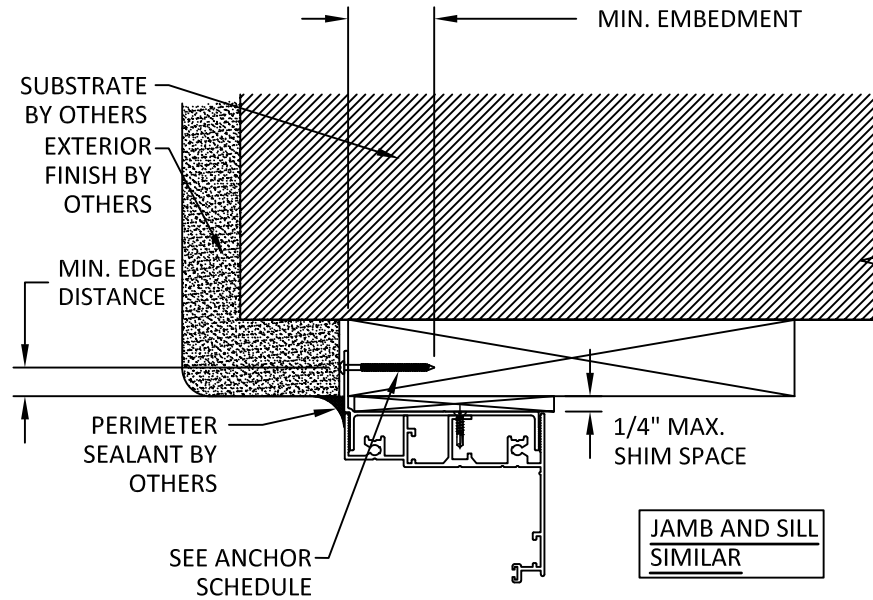
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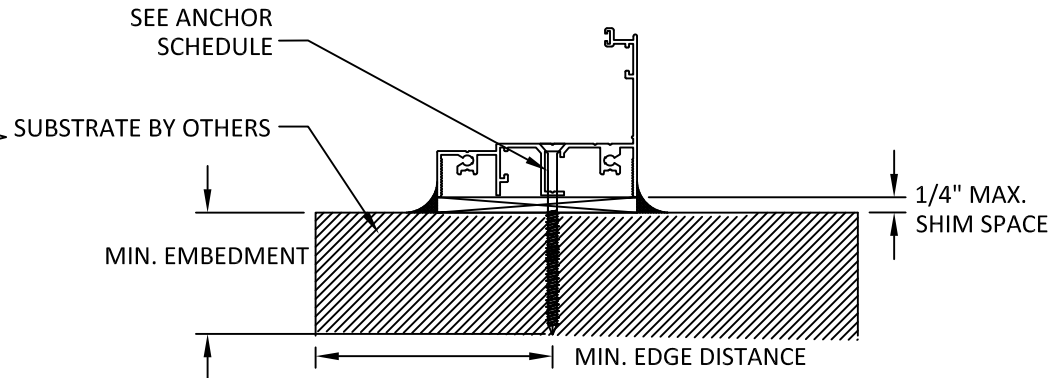
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A
7 **ANCHOR DETAIL**
THROUGH FRAME INSTALLATION



B
7 **ANCHOR DETAIL**
NAIL FIN INSTALLATION



C
7 **ANCHOR DETAIL**
THROUGH FRAME INSTALLATION

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN UNLESS OTHERWISE NOTED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ 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.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAX. 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 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					
TYPE	METHOD	ANCHOR	SUBSTRATE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
A	THROUGH FRAME	#12 WOOD SCREW	2X WOOD MIN. S.G.=0.55	1.50"	1.00"
B		#12 GR. 5 SELF-TAPPING/DRILLING SCREW	METAL: 18 GAUGE STEEL MIN., MIN. Fy = 33 KSI 1/8" ALUMINUM MIN., MIN. 6063-T5	3 THREADS MIN. PENETRATION BEYOND METAL	0.50"
C		3/16" ITW TAPCON (CARBON OR STAINLESS STEEL)	3000 PSI CONCRETE MIN.	1.00"	2.50"
D			GROUT FILLED CMU PER ASTM C-90 W/ MIN. F'C=2000 PSI	1.00"	2.50"
E	NAIL FIN	#8 WOOD SCREW	2X WOOD MIN. S.G.=0.55	1.50"	0.50"
F		#8 GR. 5 SELF-TAPPING/DRILLING SCREW	METAL: 18 GAUGE STEEL MIN., MIN. Fy = 33 KSI 1/8" ALUMINUM MIN., MIN. 6063-T5	3 THREADS MIN. PENETRATION BEYOND METAL	0.50"



CONDADO WINDOW
903RH TODD AVENUE SAN JUAN,
PUERTO RICO 00907
PH: (787)723-5469 FAX: (787)722-1395

TITLE: **325 SERIES GEN 2
CASEMENT WINDOW
(HVHZ)/(IMPACT)**

ANCHOR DETAILS, INSTALLATION NOTES
& ANCHOR SCHEDULE

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15

MIAMI, FL 33132

PH: (954)399-8478

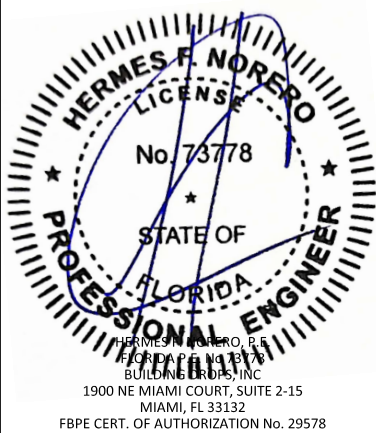
FAX: (954)744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE

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



FL #: **FL40551**

DATE: **04.15.24**

DWG. BY:
DI

CHK. BY:
HFN

SCALE: **NTS**

DWG. #: **CDW007**

SHEET:

7

OF 7