

MILLWORK ARTISANS, LLC.

DIRECT-SET FIXED WINDOW (HVHZ)(IMPACT)

GENERAL NOTES:

- 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:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
 - ASTM E1886-19
 - ASTM E1996-20
 - ASTM 283/283M-19
 - ASTM 330/330M-14(21)
 - ASTM 331/331M-00(16)
- 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.
- 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.
- 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.
- 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.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW FRAME MATERIAL: MAHOGANY
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.

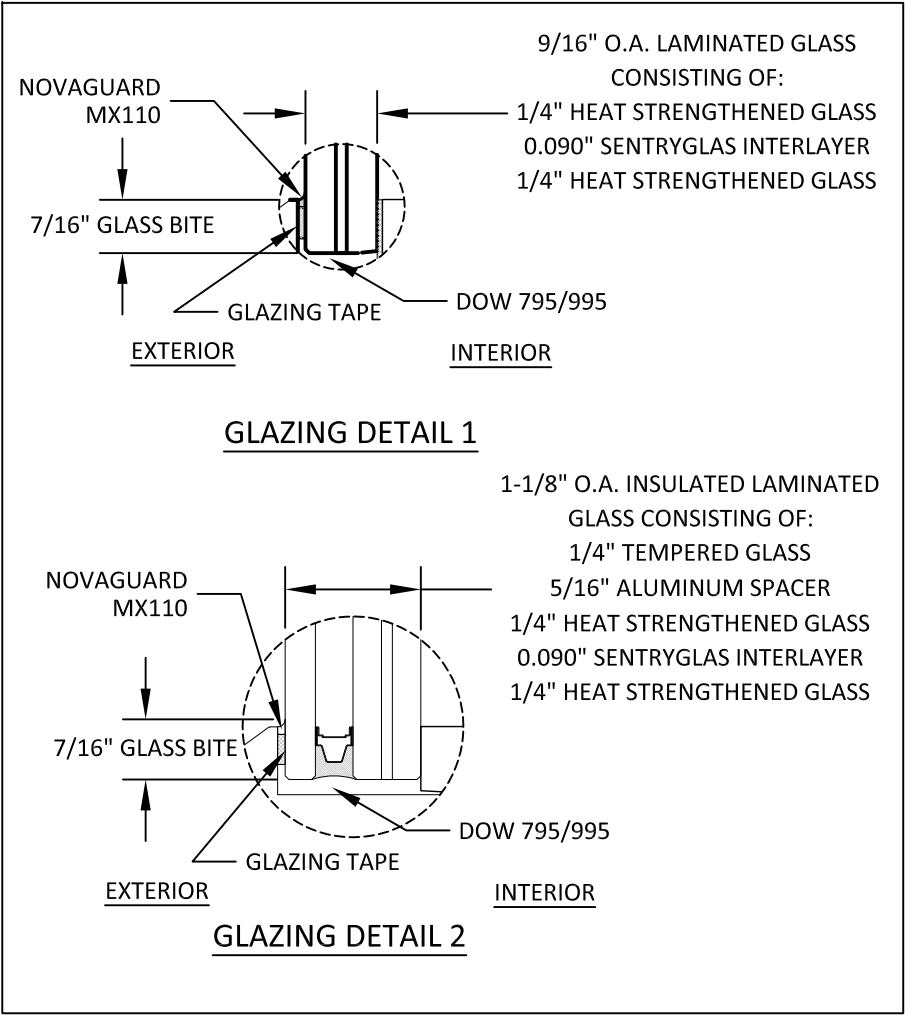


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DESIGN PRESSURE RATING (PSF)			
WIDTH (IN.)	HEIGHT (IN.)	DESIGN PRESSURE	MISSILE IMPACT RATING
SEE SHEETS 2 & 3	SEE SHEETS 2 & 3	SEE SHEETS 2 & 3	LARGE & SMALL MISSILE IMPACT

- GLAZING NOTES:
- GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS. PER THE FBC 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 HEREIN.



4600 GOER DR #201,
NORTH CHARLESTON, SC, 29406
PH: +(843) 577-3348

TITLE:
DIRECT-SET FIXED WINDOW
(HVHZ) (IMPACT)
GENERAL NOTES &
GLAZING DETAIL

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



REMARKS	BY	DATE
A. BOM UPDATES	DI	10/2025

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2025.10.21 18:26:38 -04'00'



FL #:
FL47467

DATE: **03.17.2025**

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

SCALE: **NTS**

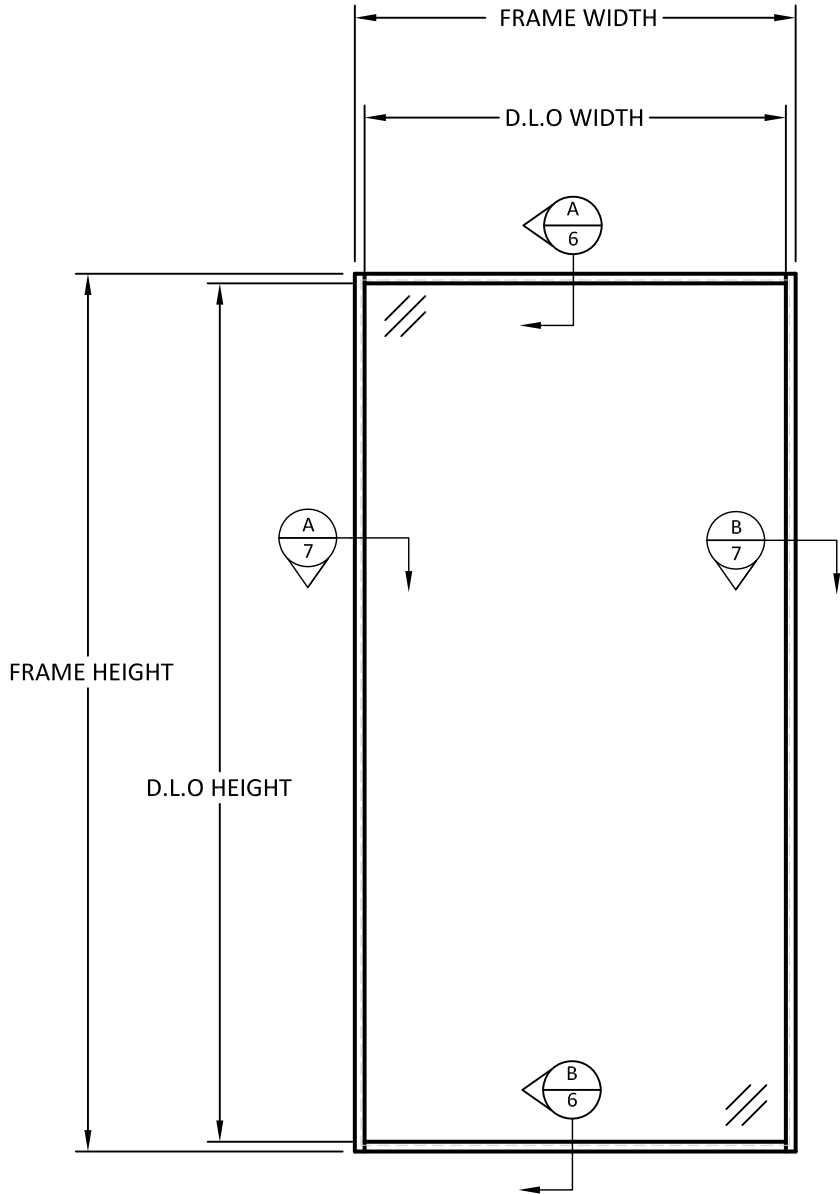
DWG. #: **MWA001**

SHEET:

1

OF 12

c:\users\yvanivata\building_drops, inc\building_drops landing - common\projects\millwork artisans\fb-c24-1049 - fb-c submittal - Impact wood systems\dwgs\direct set fixed windows\mwa001.dwg 10/20/2025 12:13 PM

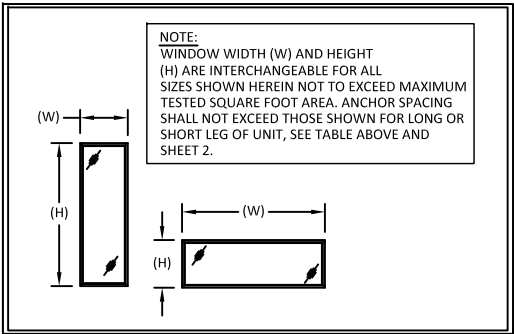


D.L.O. HEIGHT = FRAME HEIGHT - 3.1875"
D.L.O. WIDTH = FRAME WIDTH - 3.1875"

DESIGN PRESSURE CHART (PSF)			
FRAME WIDTH (IN.)	FRAME HEIGHT (IN.)	EXT. (+)	INT. (-)
60	60	75.00	75.00
	66	75.00	75.00
	72	75.00	75.00
	78	75.00	75.00
	84	75.00	75.00
	90	75.00	75.00
	96	75.00	75.00
	102	75.00	75.00
	108	75.00	75.00
	114	75.00	75.00
	120	75.00	75.00
	126	75.00	75.00
	132	75.00	75.00
	138	75.00	75.00
	144	75.00	75.00
	150	75.00	75.00
66	156	75.00	75.00
	162	75.00	75.00
	168	75.00	75.00
	60	75.00	75.00
	66	75.00	75.00
	72	75.00	75.00
	78	75.00	75.00
	84	75.00	75.00
	90	75.00	75.00
	96	75.00	75.00
	102	75.00	75.00
	108	75.00	75.00
	114	75.00	75.00
	120	75.00	75.00
	126	75.00	75.00
	132	75.00	75.00
72	138	75.00	75.00
	144	75.00	75.00
	150	75.00	75.00
	156	75.00	75.00
	60	75.00	75.00
	66	75.00	75.00
	72	75.00	75.00
	78	75.00	75.00
	84	75.00	75.00
	90	75.00	75.00
	96	75.00	75.00
	102	75.00	75.00
	108	75.00	75.00
	114	75.00	75.00
	120	75.00	75.00
	126	75.00	75.00
	132	75.00	75.00
	138	75.00	75.00
	144	75.00	75.00

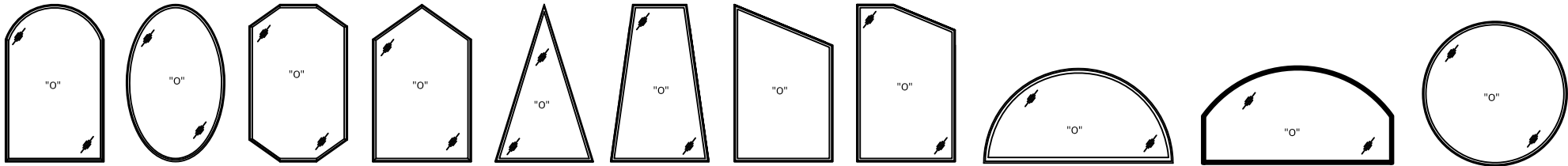
DESIGN PRESSURE CHART (PSF)			
FRAME WIDTH (IN.)	FRAME HEIGHT (IN.)	EXT. (+)	INT. (-)
78	60	75.00	75.00
	66	75.00	75.00
	72	75.00	75.00
	78	69.23	69.23
	84	69.23	69.23
	90	69.23	69.23
	96	69.23	69.23
	102	69.23	69.23
	108	69.23	69.23
	114	69.23	69.23
	120	69.23	69.23
	126	69.23	69.23
	132	69.23	69.23
	60	75.00	75.00
	66	75.00	75.00
	72	75.00	75.00
84	78	69.23	69.23
	84	64.29	64.29
	90	64.29	64.29
	96	64.29	64.29
	102	64.29	64.29
	108	64.29	64.29
	114	64.29	64.29
	120	64.29	64.29
	60	75.00	75.00
	66	75.00	75.00
	72	75.00	75.00
	78	69.23	69.23
	84	64.29	64.29
	90	60.00	60.00
	96	60.00	60.00
	102	60.00	60.00
90	108	60.00	60.00
	114	60.00	60.00
	60	75.00	75.00
	66	75.00	75.00
	72	75.00	75.00
	78	69.23	69.23
	84	64.29	64.29
	90	60.00	60.00
	96	56.25	56.25
	102	56.25	56.25
	108	56.25	56.25
96	60	75.00	75.00
	66	75.00	75.00
	72	75.00	75.00
	78	69.23	69.23
	84	64.29	64.29
	90	60.00	60.00
	96	56.25	56.25
	102	56.25	56.25
	108	56.25	56.25

DESIGN PRESSURE CHART (PSF)			
FRAME WIDTH (IN.)	FRAME HEIGHT (IN.)	EXT. (+)	INT. (-)
102	60	75.00	75.00
	66	75.00	75.00
	72	75.00	75.00
	78	69.23	69.23
	84	64.29	64.29
	90	60.00	60.00
	96	56.25	56.25
	60	75.00	75.00
108	66	75.00	75.00
	72	75.00	75.00
	78	69.23	69.23
	84	64.29	64.29
	90	60.00	60.00
	96	56.25	56.25
	60	75.00	75.00
	66	75.00	75.00
114	72	75.00	75.00
	78	69.23	69.23
	84	64.29	64.29
	90	60.00	60.00
	60	75.00	75.00
	66	75.00	75.00
	72	75.00	75.00
	78	69.23	69.23
120	84	64.29	64.29
	90	60.00	60.00
	60	75.00	75.00
	66	75.00	75.00
	72	75.00	75.00
	78	69.23	69.23
	84	64.29	64.29
	90	60.00	60.00
126	60	75.00	75.00
	66	75.00	75.00
	72	75.00	75.00
	78	69.23	69.23
132	60	75.00	75.00
	66	75.00	75.00
	72	75.00	75.00
	78	69.23	69.23
138	60	75.00	75.00
	66	75.00	75.00
	72	75.00	75.00
	60	75.00	75.00
144	66	75.00	75.00
	72	75.00	75.00
	60	75.00	75.00
	66	75.00	75.00
	72	75.00	75.00



QUALIFIED SHAPES

NOTE: TYPICAL SHAPES SHOWN. ANY SHAPE IS QUALIFIED. INSCRIBED SHAPE IS LIMITED TO THE RECTANGLE MAX. WIDTH AND HEIGHT IN DP TABLES ON SHEET 2.



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REMARKS	BY	DATE
A. BOM UPDATES	DI	10/2025

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JR

CHK. BY:
HFN

SCALE: **NTS**

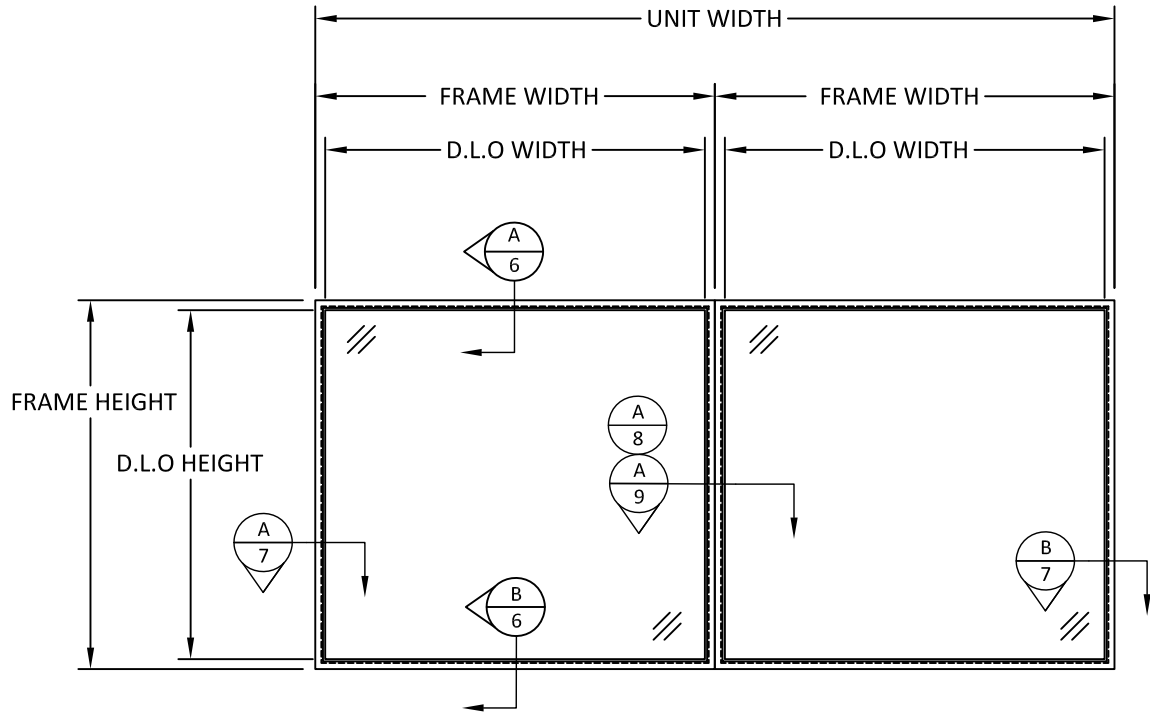
DWG. #: **MWA001**

SHEET:

2

OF 12

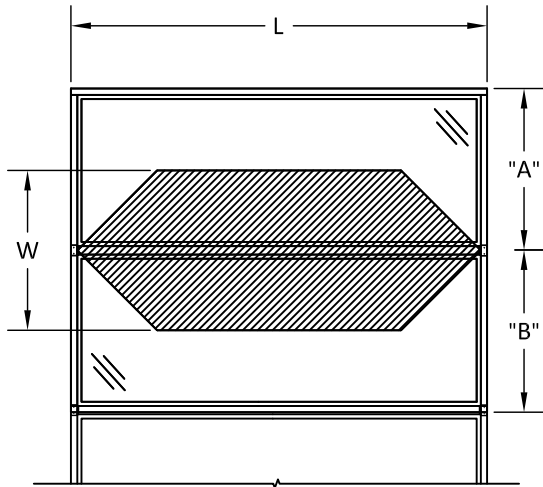
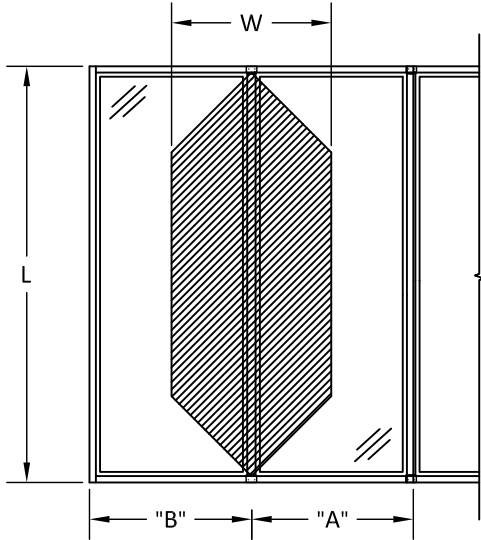
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D.L.O. HEIGHT = FRAME HEIGHT - 3.1875"
D.L.O. WIDTH = FRAME WIDTH - 3.1875"

NOTE: THE LESSER DESIGN PRESSURE OF THE MULLION
APPROVAL OR THIS TABLE AND THE TABLE ON SHEET 2
SHALL BE USED.

DESIGN PRESSURE CHART (PSF)			
W - TRIBUTARY WIDTH (IN.)	L - MULL LENGTH (IN.)	EXT. (+)	INT. (-)
48	30	75.00	75.00
	36	75.00	75.00
	42	75.00	75.00
	48	75.00	75.00
	54	75.00	75.00
	60	75.00	75.00
54	30	75.00	75.00
	36	75.00	75.00
	42	75.00	75.00
	48	75.00	75.00
	54	75.00	75.00
	60	75.00	75.00
60	30	75.00	75.00
	36	75.00	75.00
	42	75.00	75.00
	48	75.00	75.00
	54	75.00	75.00
	60	75.00	75.00
65	30	75.00	75.00
	36	75.00	75.00
	42	75.00	75.00
	48	75.00	75.00
	54	75.00	75.00
	60	75.00	75.00
72	30	75.00	75.00
	36	75.00	75.00
	42	75.00	75.00
	48	75.00	75.00
	54	75.00	75.00
	60	75.00	75.00
78	30	75.00	75.00
	36	75.00	75.00
	42	75.00	75.00
	48	75.00	75.00
	54	75.00	75.00
	60	75.00	75.00
84	30	75.00	75.00
	36	75.00	75.00
	42	75.00	75.00
	54	75.00	75.00
	60	75.00	75.00
	60	75.00	75.00
90	30	75.00	75.00
	36	75.00	75.00
	42	75.00	75.00
	54	75.00	75.00
	60	75.00	75.00
	60	75.00	75.00
96	30	75.00	75.00
	36	75.00	75.00
	42	75.00	75.00
	54	75.00	75.00
	60	75.00	75.00
	60	75.00	75.00
102	30	75.00	75.00
	36	75.00	75.00
	42	75.00	75.00
	54	75.00	75.00
	60	75.00	75.00
	60	75.00	75.00
108	30	75.00	75.00
	36	75.00	75.00
	42	75.00	75.00
	54	75.00	75.00
	60	75.00	75.00
	60	75.00	75.00
114	30	75.00	75.00
	36	75.00	75.00
	42	75.00	75.00
	54	75.00	75.00
	60	75.00	75.00
	60	75.00	75.00
120	30	75.00	75.00
	36	75.00	75.00
	42	75.00	75.00
	54	75.00	75.00
	60	75.00	75.00
	60	75.00	75.00
126	30	75.00	75.00
	36	75.00	75.00
	42	75.00	75.00
	54	75.00	75.00
	60	75.00	75.00
	60	75.00	75.00



4600 GOER DR #201,
NORTH CHARLESTON, SC, 29406
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TITLE:
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(HVHZ) (IMPACT)
ELEVATION

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REMARKS	BY	DATE
A. BOM UPDATES	DI	10/2025

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

SCALE: **NTS**

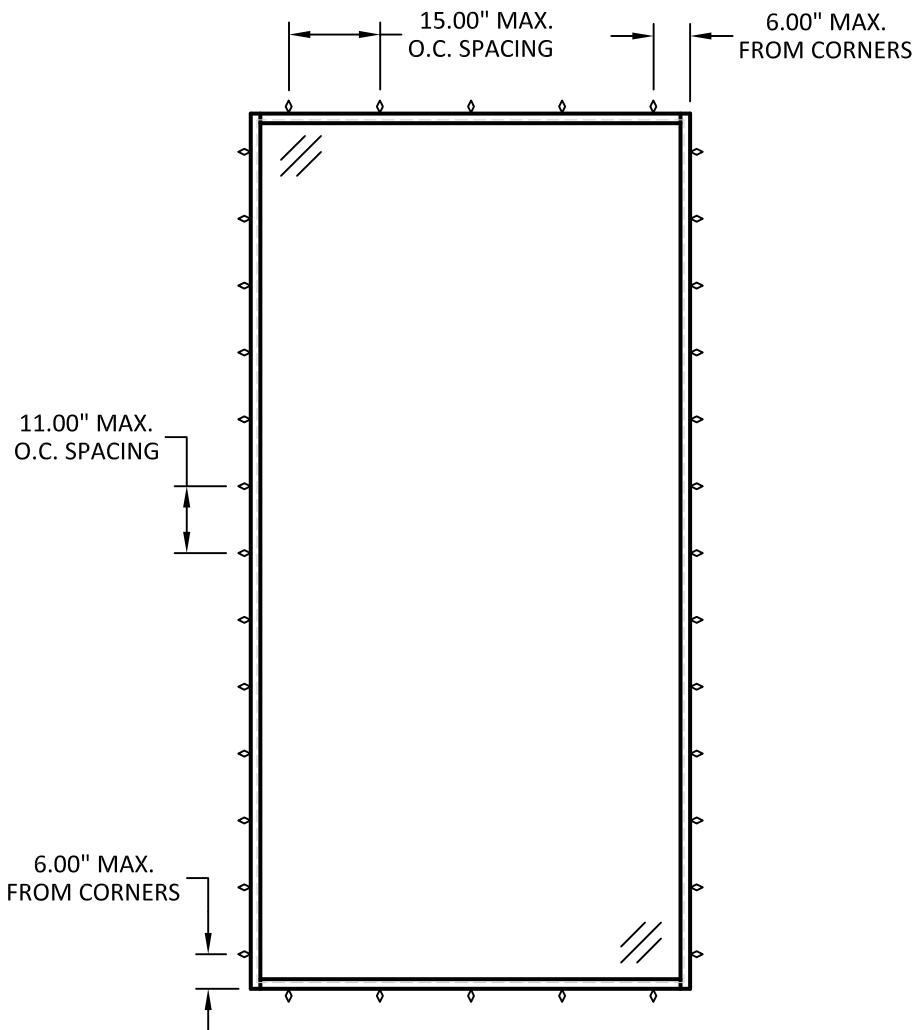
DWG. #: **MWA001**

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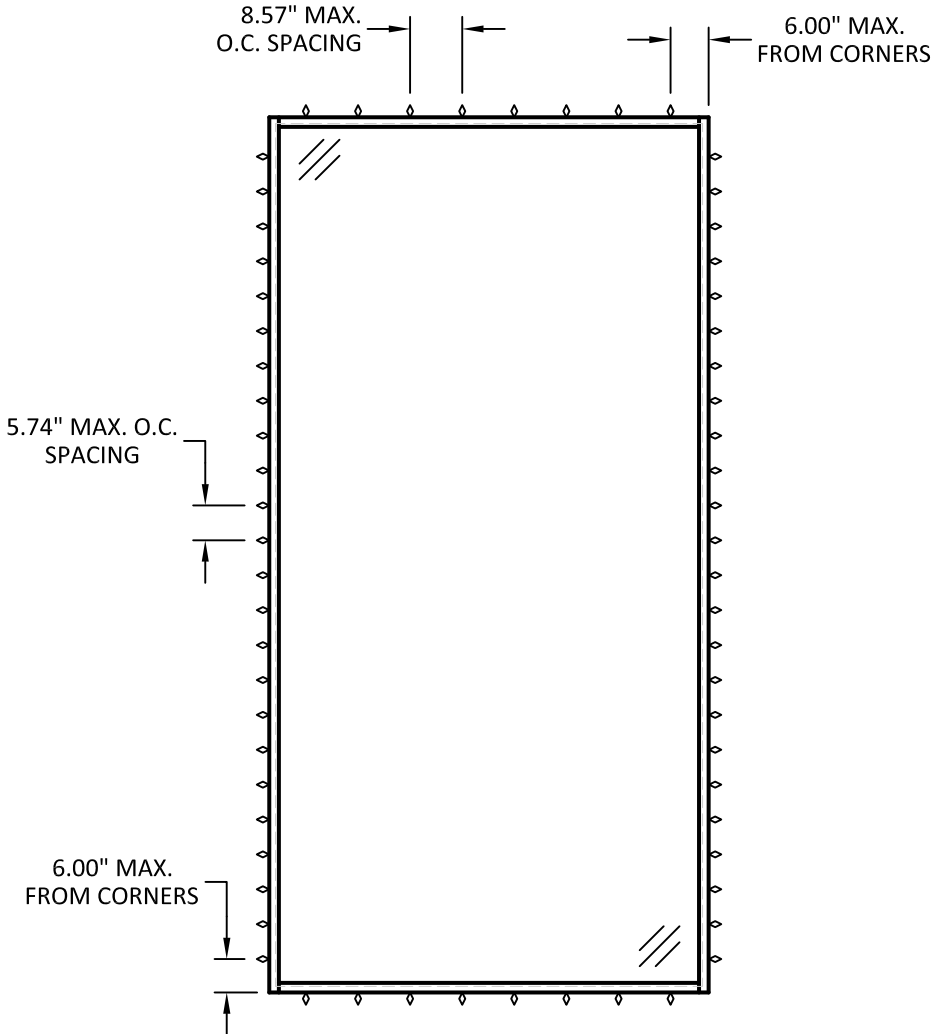
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OF 12

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ANCHOR LAYOUT
THROUGH FRAME / ALUMINUM
ANGLE / HRS12 STRAP INSTALLATION



ANCHOR LAYOUT
16 GA. SIMPSON CS16Z STEEL STRAP /
ALUMINUM ANGLE / Z-CLIP
INSTALLATION

NOTE:
◊ INSTALLATION ANCHOR



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SCALE: **NTS**

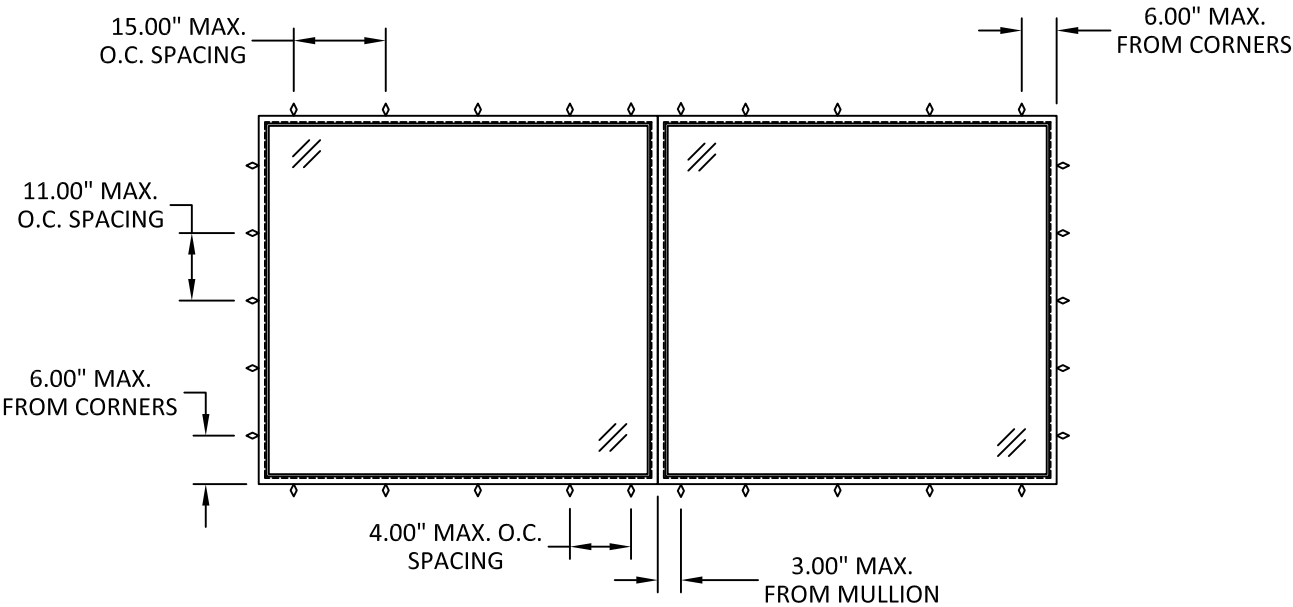
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4

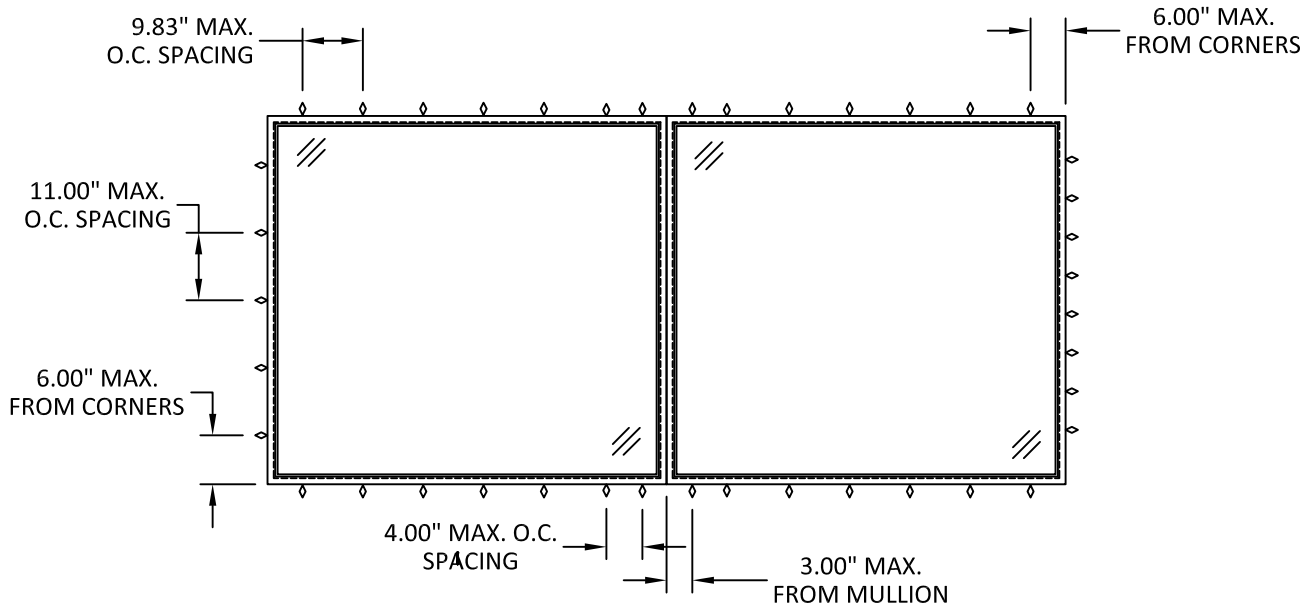
OF 12

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ANCHOR LAYOUT
THROUGH FRAME / ALUMINUM
ANGLE / HRS12 STRAP INSTALLATION

NOTE:
◊ INSTALLATION ANCHOR



ANCHOR LAYOUT
16 GA. SIMPSON CS16Z STEEL STRAP /
ALUMINUM ANGLE / Z-CLIP
INSTALLATION



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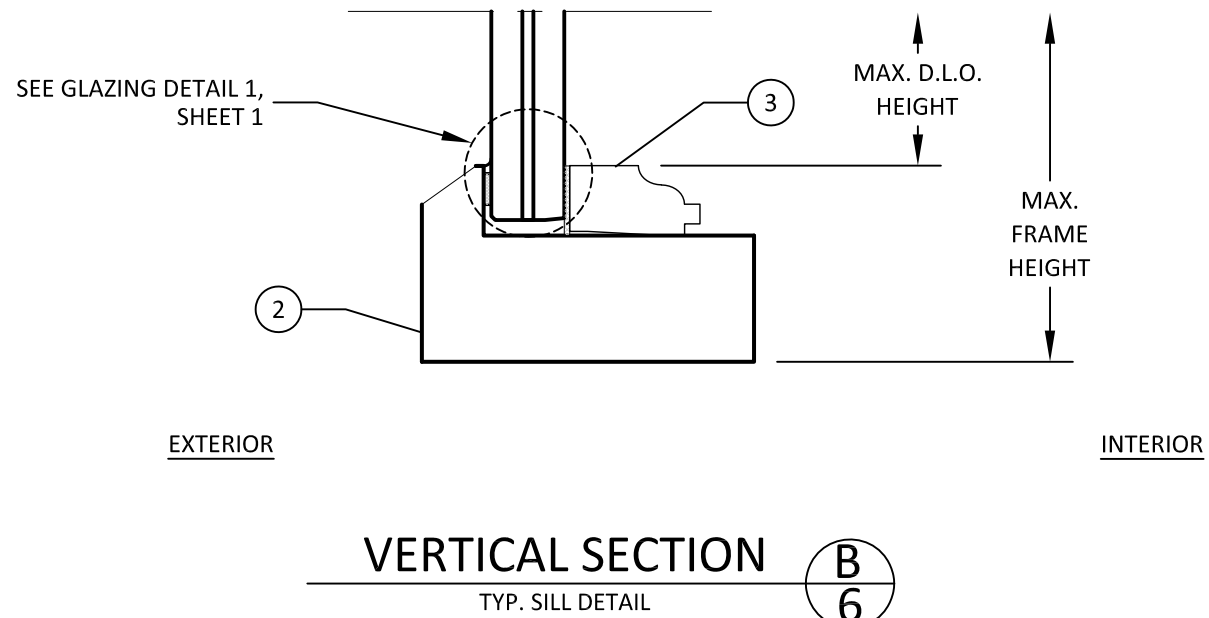
SCALE: **NTS**

DWG. #: **MWA001**

SHEET:

5

OF 12



MILLWORK
artisans

4600 GOER DR #201,
NORTH CHARLESTON, SC, 29406
PH: +(843) 577-3348

TITLE: DIRECT-SET FIXED WINDOW
(HVVHZ) (IMPACT)
VERTICAL SECTIONS

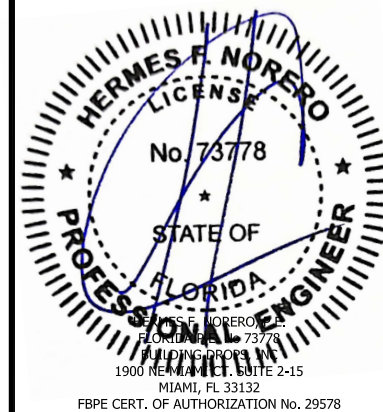
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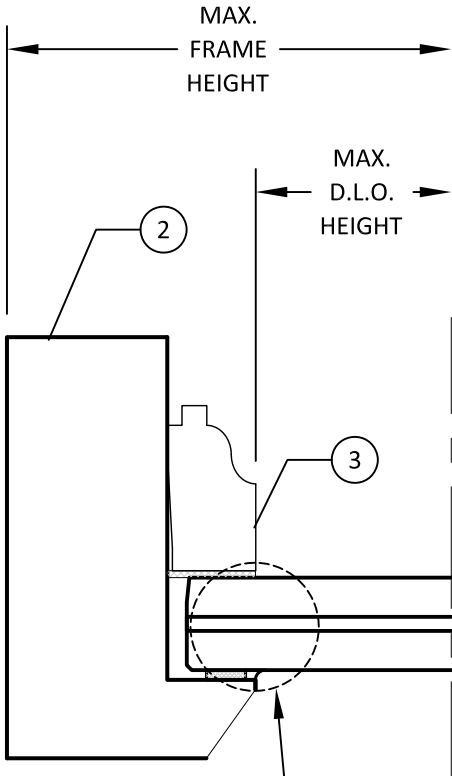
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OF 12

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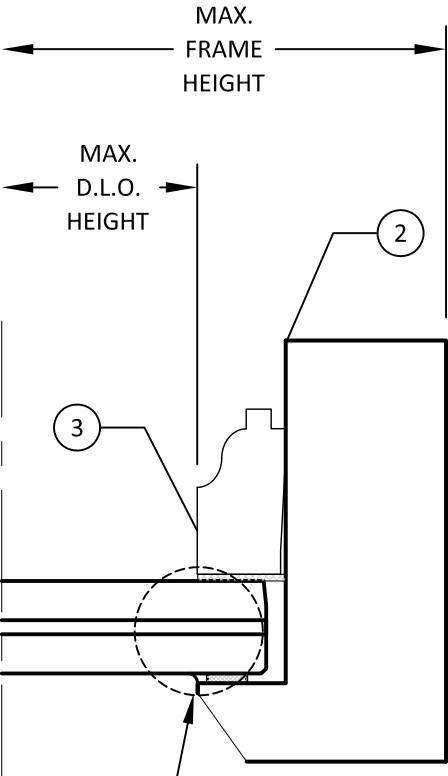
INTERIOR

EXTERIOR



SEE GLAZING DETAIL 1, SHEET 1

HORIZONTAL SECTION **A**
TYP. JAMB DETAIL **7**



SEE GLAZING DETAIL 1, SHEET 1

HORIZONTAL SECTION **B**
TYP. JAMB DETAIL **7**

NOTE: LAMINATED SHOWN, INSULATED QUALIFIED



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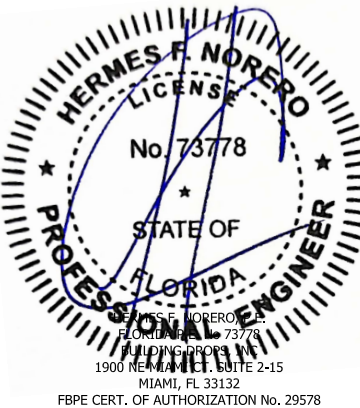
TITLE:
DIRECT-SET FIXED WINDOW
(HVHZ) (IMPACT)
HORIZONTAL SECTIONS

PREPARED BY:
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REMARKS	BY	DATE
A. BOM UPDATES	DI	10/2025

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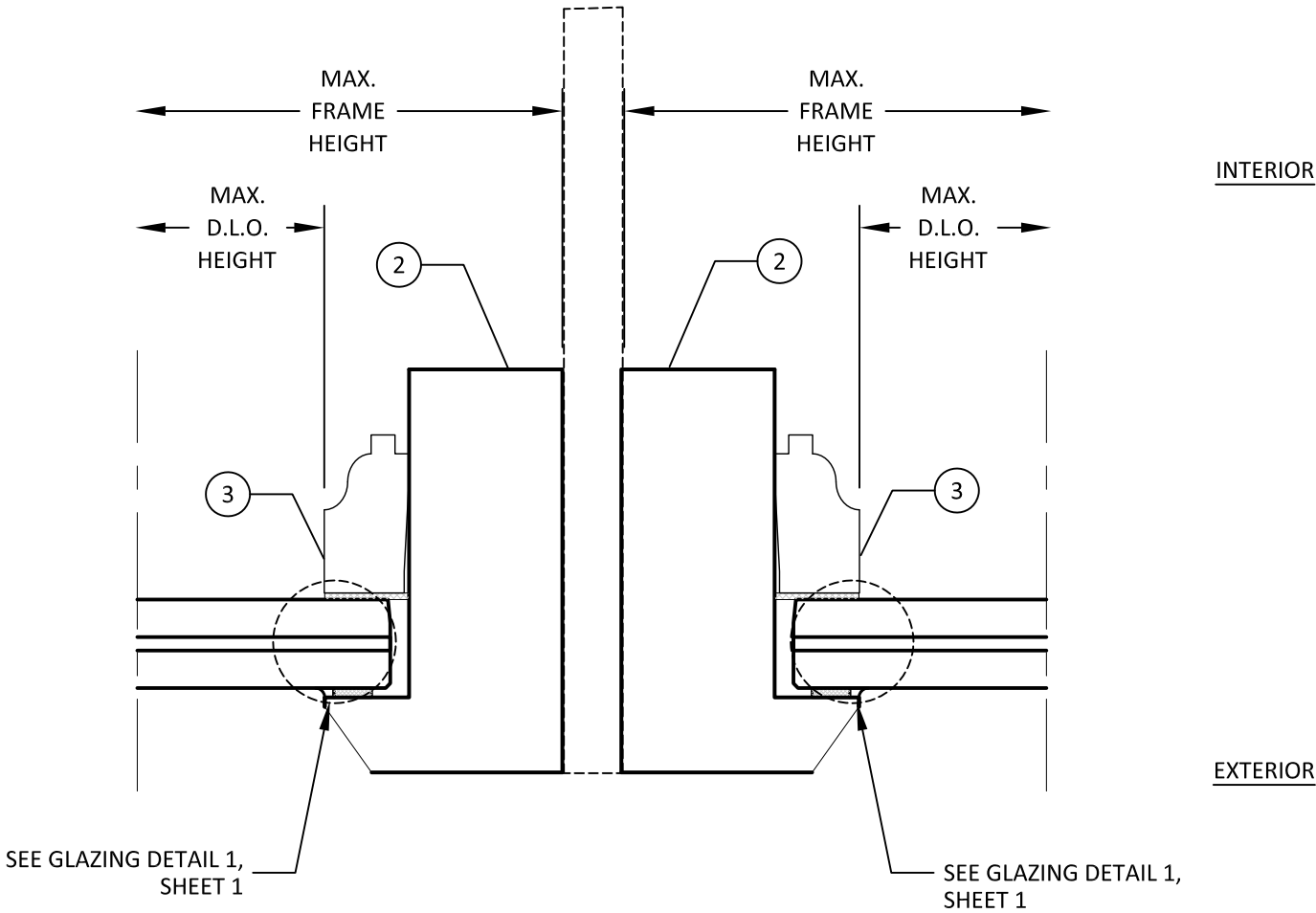


FL #:	FL47467
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JR	HFN
SCALE:	NTS
DWG. #:	MWA001
SHEET:	7

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INTERIOR

EXTERIOR



HORIZONTAL SECTION

TYP. STEEL PLATE REINF. MULLION DETAIL

A
8

NOTE: MULLION UNDER SEPARATE APPROVAL

NOTE: LAMINATED SHOWN, INSULATED QUALIFIED



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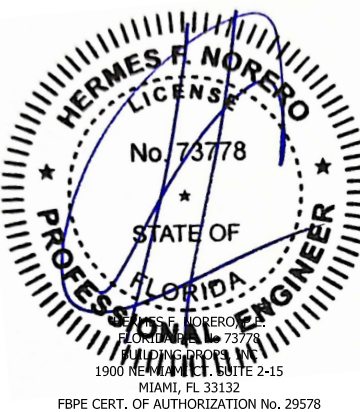
TITLE:
DIRECT-SET FIXED WINDOW
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HORIZONTAL SECTIONS

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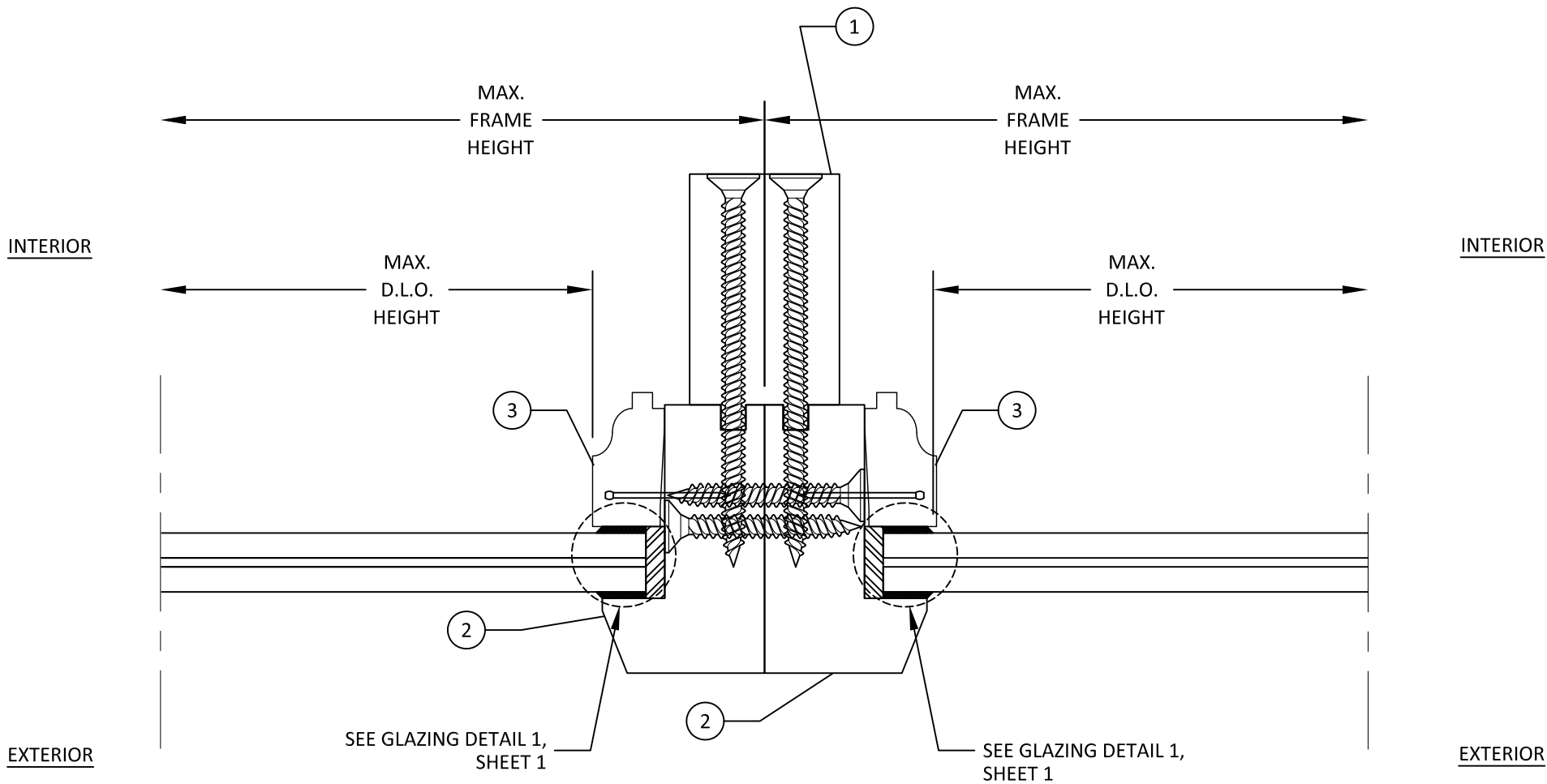
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8

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HORIZONTAL SECTION A
9
TYP. BACK-TO-BACK MULLION DETAIL

NOTE: LAMINATED SHOWN, INSULATED QUALIFIED



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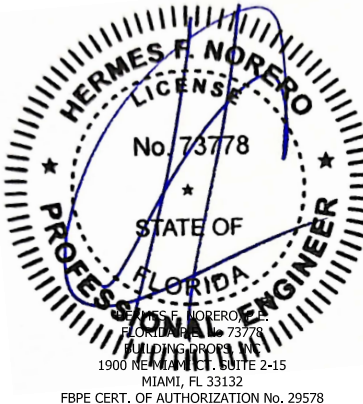
TITLE:
DIRECT-SET FIXED WINDOW
(HVHZ) (IMPACT)
HORIZONTAL SECTIONS

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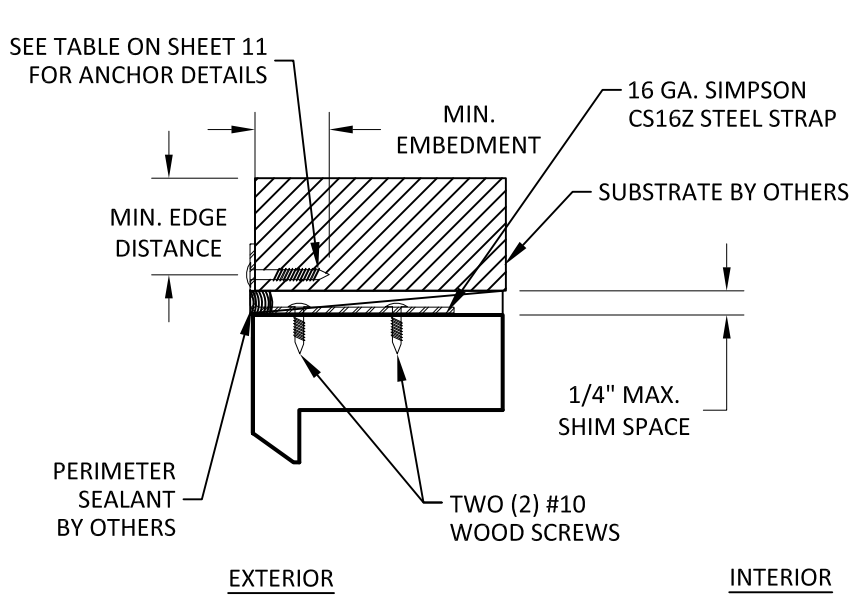
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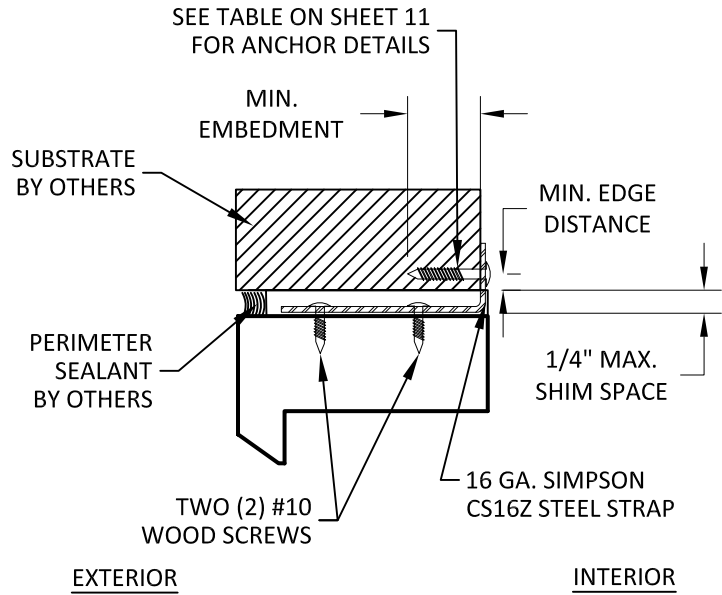
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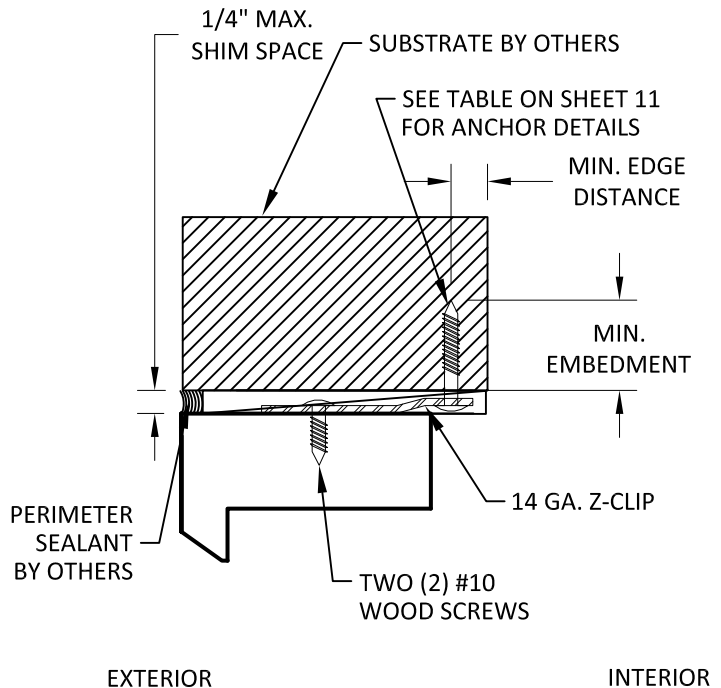
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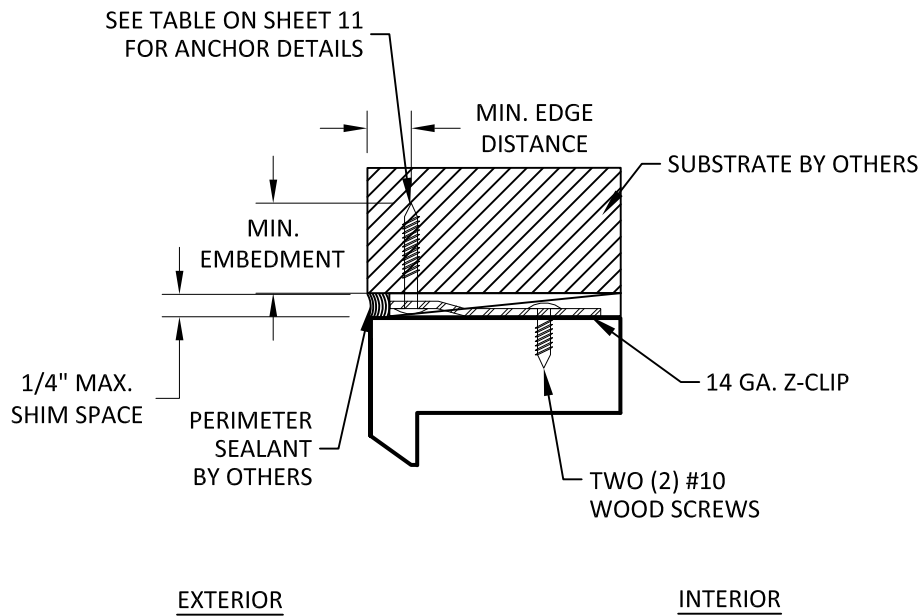
A
10 VERTICAL SECTION
EXTERIOR BENT STRAP - HEAD SHOWN,
JAMB/SILL SIMILAR



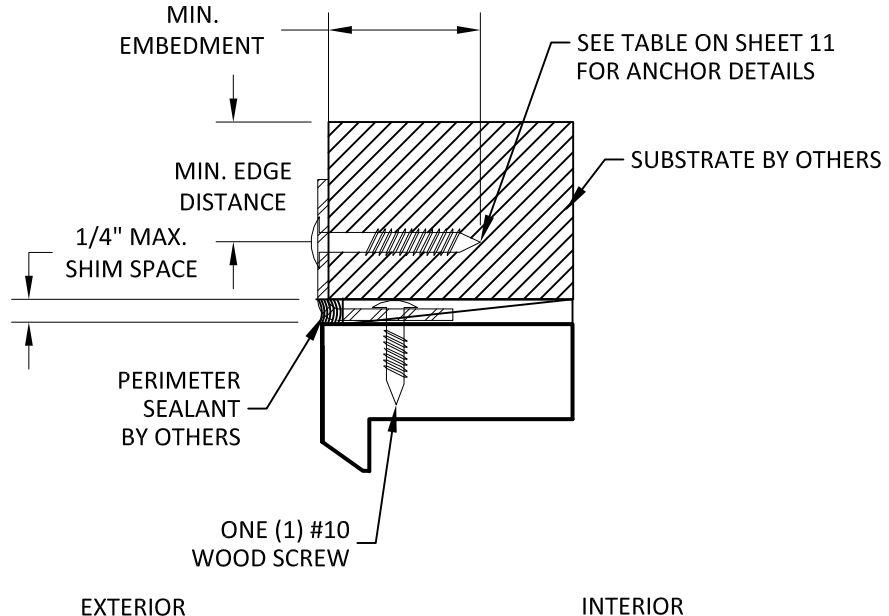
B
10 VERTICAL SECTION
INTERIOR BENT STRAP - HEAD SHOWN,
JAMB/SILL SIMILAR



C
10 VERTICAL SECTION
INTERIOR Z-CLIP - HEAD SHOWN,
JAMB/SILL SIMILAR



D
10 VERTICAL SECTION
EXTERIOR Z-CLIP - HEAD SHOWN,
JAMB/SILL SIMILAR



E
10 VERTICAL SECTION
ANGLE - HEAD SHOWN, JAMB/SILL SIMILAR



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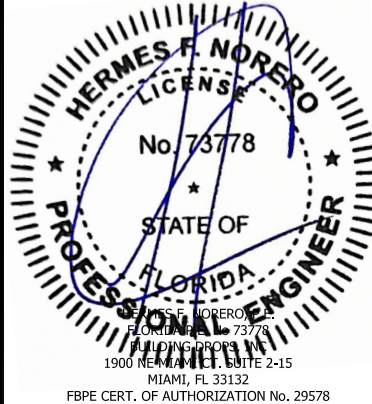
TITLE:
DIRECT-SET FIXED WINDOW
(HVHZ) (IMPACT)
INSTALLATION DETAILS

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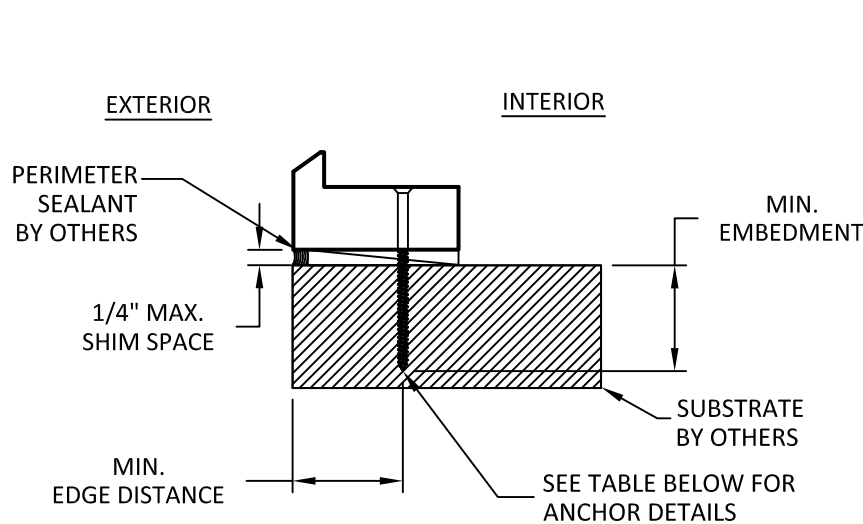
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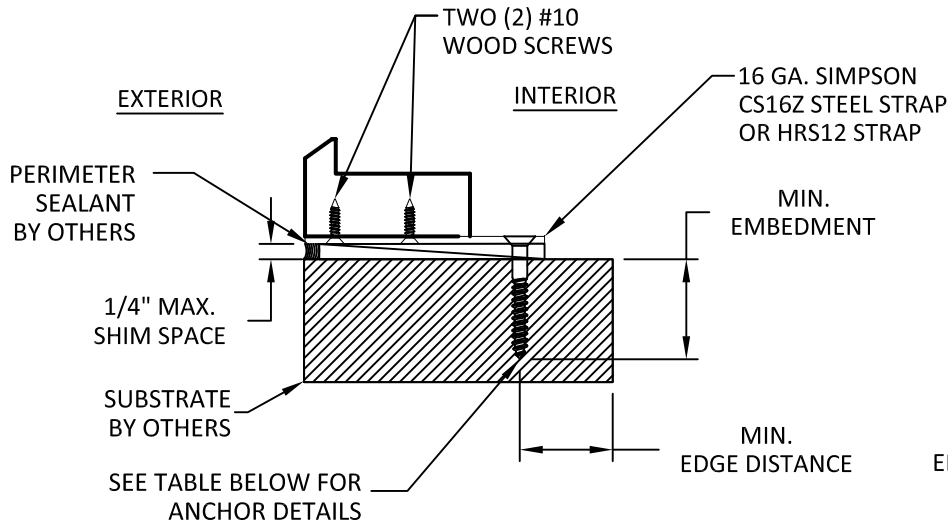


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JR	HFN
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DWG. #:	MWA001
SHEET:	10

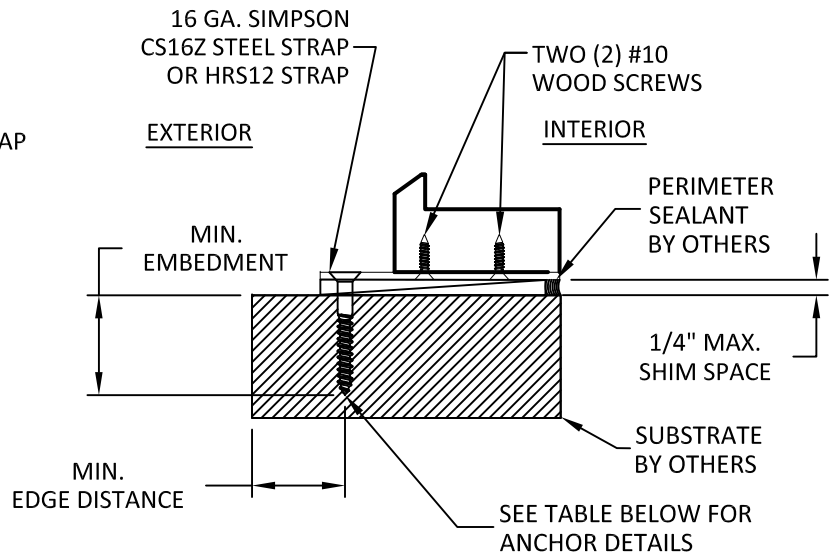
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A
11 **VERTICAL SECTION**
THROUGH-FRAME - SILL SHOWN,
HEAD/JAMB SIM.



B
11 **VERTICAL SECTION**
STRAP - SILL SHOWN, HEAD/JAMB SIM.



C
11 **VERTICAL SECTION**
STRAP - SILL SHOWN, HEAD/JAMB SIM.

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN ON SHEETS 10-11, UNLESS OTHERWISE STATED ON SHEETS 4-5.
- ONE (1) INSTALLATION STRAP IS REQUIRED AT EACH LOCATION SHOWN ON SHEETS 4-5.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
- 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.
- 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.
- 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				
METHOD	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	WOOD: MIN. S.G. = 0.55	#12 WOOD SCREW	1.50"	0.75"
	CONCRETE (MIN. f'c = 3000 PSI) OR CMU (PER ASTM C90) (MIN. f'c = 2000 PSI)	1/4" ITW TAPCON	1.00"	2.00"
	STEEL MIN. 18 GA. (MIN. Fy = 36 KSI) ALUM. MIN. 1/8" THK. (MIN. 6063-T5)	#12 SELF-TAPPING OR SELF-DRILLING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.50"
16 GA. SIMPSON CS16Z STEEL STRAP, Z-CLIP, & HRS12 STRAP	WOOD: MIN. S.G. = 0.55	#12 WOOD SCREW	1.50"	0.75"
	CONCRETE (MIN. f'c = 3000 PSI) OR CMU (PER ASTM C90) (MIN. f'c = 2000 PSI)	1/4" ITW TAPCON	1.00"	2.00"
	STEEL MIN. 18 GA. (MIN. Fy = 36 KSI) ALUM. MIN. 1/8" THK. (MIN. 6063-T5)	#12 SELF-TAPPING OR SELF-DRILLING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.50"
ALUMINUM ANGLE	WOOD: MIN. S.G. = 0.55	#12 WOOD SCREW	1.50"	0.75"
	CONCRETE (MIN. f'c = 3000 PSI) OR CMU (PER ASTM C90) (MIN. f'c = 2000 PSI)	1/4" ITW TAPCON	1.00"	2.00"
	STEEL MIN. 18 GA. (MIN. Fy = 36 KSI) ALUM. MIN. 1/8" THK. (MIN. 6063-T5)	#12 SELF-TAPPING OR SELF-DRILLING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.50"

MILLWORK
artisans

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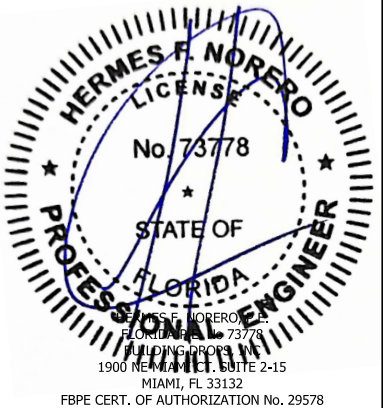
TITLE:
DIRECT-SET FIXED WINDOW
(HVHZ) (IMPACT)
INSTALLATION NOTES &
ANCHOR SCHEDULE

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FL47467

DATE: **03.17.2025**

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

DWG. #: **MWA001**

SHEET:
11
OF 12

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TITLE:
DIRECT-SET FIXED WINDOW
(HVHZ) (IMPACT)
BILL OF MATERIALS

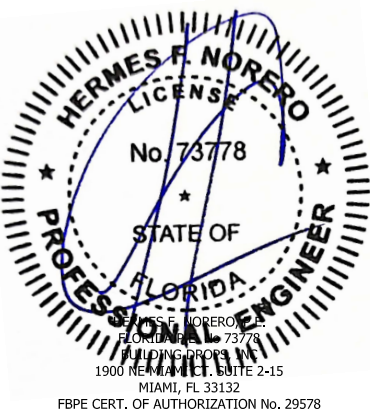
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FL47467

DATE: 03.17.2025

DWG. BY:
JR

CHK. BY:
HFN

SCALE: NTS

DWG. #: MWA001

SHEET:

12

OF 12

BILL OF MATERIALS		
ITEM NUMBER	DESCRIPTION	MATERIAL
1	MULLION REINFORCEMENT	MAHOGANY
2	HEAD/SILL/JAMB	MAHOGANY
3	GLAZING BEAD	MAHOGANY

