

SEAWAY MANUFACTURING

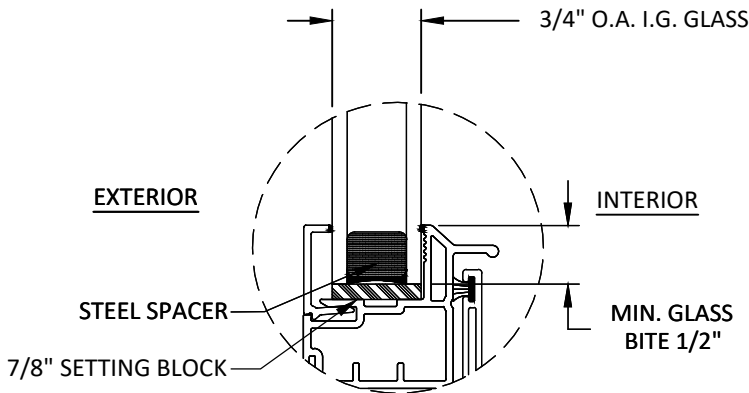
EPIPHANY DOUBLE HUNG WINDOWS

(NON-HVHZ)(NON-IMPACT)

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/I.S.2/A440-17
- 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.
- 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 IN NON-HVHZ AREAS.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW FRAME MATERIAL: uPVC
- GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.

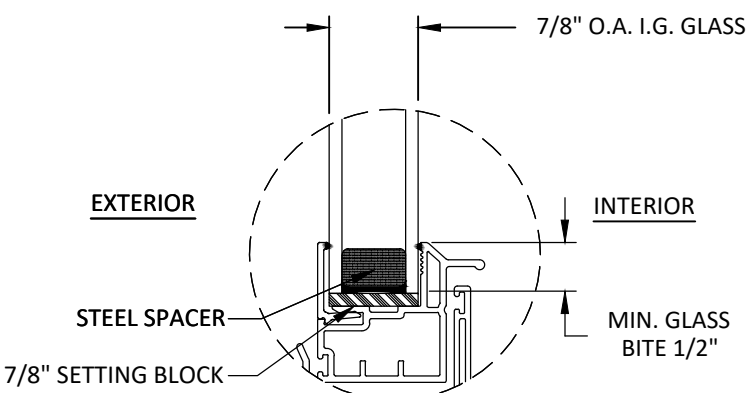
MAX OVERALL SIZE		CONFIG.	DESIGN PRESSURE	MISSILE IMPACT RATING
WIDTH	HEIGHT			
SEE SHEET 2	SEE SHEET 2	X/X	SEE SHEET 2	NON IMPACT



GLAZING DETAIL

NOTE:
ALL GLAZING CONFIGURATIONS SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN CURRENT FBC AND ASTM E 1300 GLASS LOAD RESISTANCE.

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SHEET	SHEET DESCRIPTION
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GLAZING DETAIL

60 Years of Excellence

Seaway

Manufacturing Corp.

Windows-Doors-Sunrooms

SEAWAY MANUFACTURING
2250 EAST 33RD ST.
ERIE, PA 16510
PH: (814) 898-2255
FX: (814) 899-5556

TITLE: EPIPHANY DOUBLE-HUNG WINDOWS (NON-HVHZ)(NON-IMPACT)

GENERAL NOTES & GLAZING DETAIL

PREPARED BY:

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

REMARKS	BY	DATE
2023 FBC CODE CHANGE	MG	10/23/23

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2023.10.23 18:29:35 -0400

HERMES F. NORERO

LICENSE

No. 73778

STATE OF FLORIDA

PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.

BUILDING DROPS, INC.

1900 NE MIAMI CT. SUITE 2-15

MIAMI, FL 33132

FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL41945

DATE:

02.08.23

DWG. BY:

DI

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

SEM003

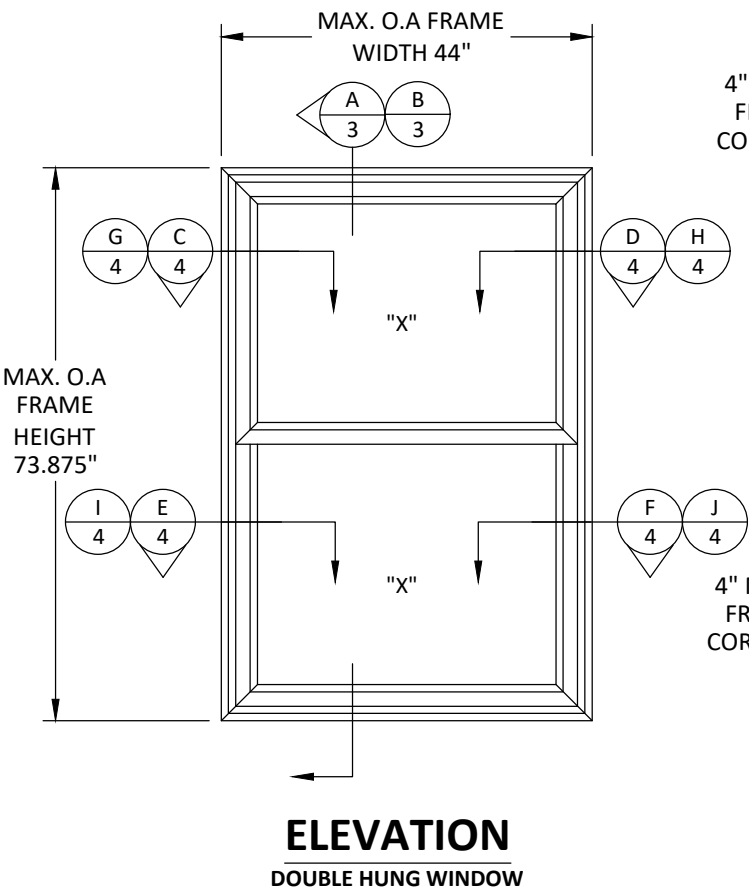
SHEET:

1

OF 5

ALLOWABLE DESIGN PRESSURE (PSF)			
NOMINAL DIMS.		DESIGN PRESSURE	
FRAME WIDTH 'in.'	FRAME HEIGHT 'in.'	EXT. (+)	INT. (-)
21	30	55	-55
24		55	-55
27		55	-55
30		55	-55
33		55	-55
36		55	-55
39		55	-55
42		55	-55
45		55	-55
48		55	-55
51		55	-55
54		55	-55
57		55	-55
60		55	-55
33	36	55	-55
36		55	-55
39		55	-55
42		55	-55
45		55	-55
48		55	-55
51		55	-55
54		55	-55
57		55	-55
60		55	-55
36	42	55	-55
39		55	-55
42		52.38	-52.38
45		52.38	-52.38
48		52.38	-52.38
51		52.38	-52.38
54		52.38	-52.38
57		52.38	-52.38
60		52.38	-52.38
42	48	52.38	-52.38
45		48.89	-48.89
48		45.83	-45.83
51		45.83	-45.83
54		45.83	-45.83
57	54	48.89	-48.89
48		45.83	-45.83
51		43.14	-43.14
54		40.74	-40.74
57		40.74	-40.74
60		40.74	-40.74

ALLOWABLE DESIGN PRESSURE (PSF)			
NOMINAL DIMS.		DESIGN PRESSURE	
FRAME WIDTH 'in.'	FRAME HEIGHT 'in.'	EXT. (+)	INT. (-)
39	60	55	-55
42		52.38	-52.38
45		48.89	-48.89
48		45.83	-45.83
51		43.14	-43.14
54		40.74	-40.74
33	66	55	-55
36		55	-55
39		55	-55
42		52.38	-52.38
45		48.89	-48.89
48		45.83	-45.83
33	72	55	-55
36		55	-55
39		54.32	-54.32
42		51.93	-51.93
45		48.89	-48.89
27	78	55	-55
30		55	-55
33		55	-55
36		55	-55
39		52.82	-52.82
24	84	55.0	-55.0
27		55.0	-55.0
30		55.0	-55.0
33		55.0	-55.0
36		54.62	-54.62
27	90	55	-55
30		55	-55
33		55	-55
36		53.64	-53.64

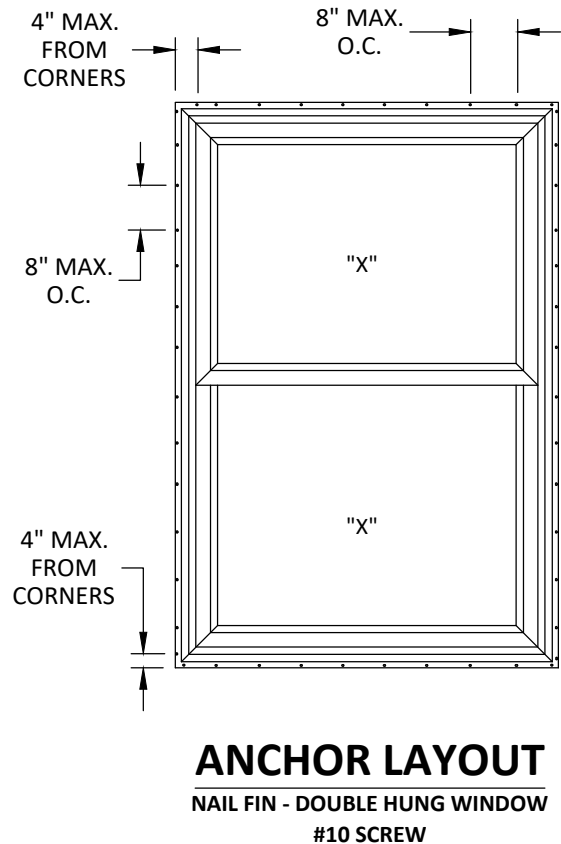
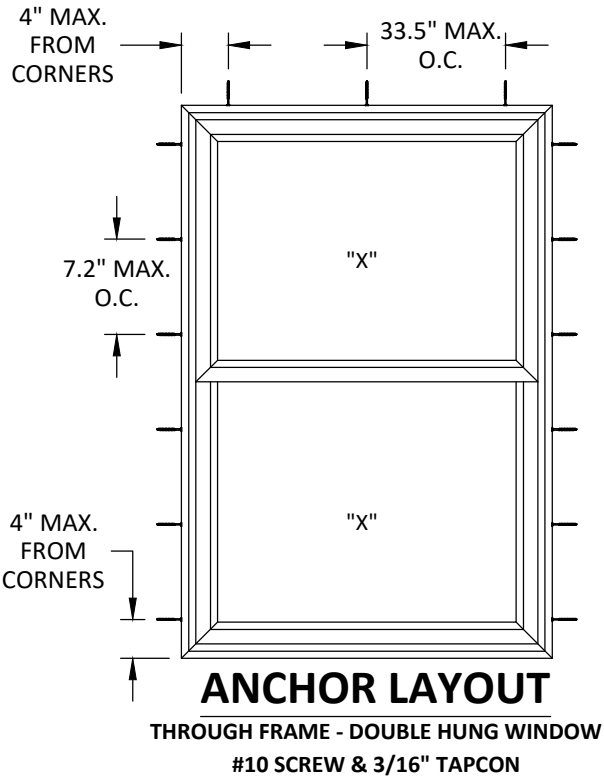
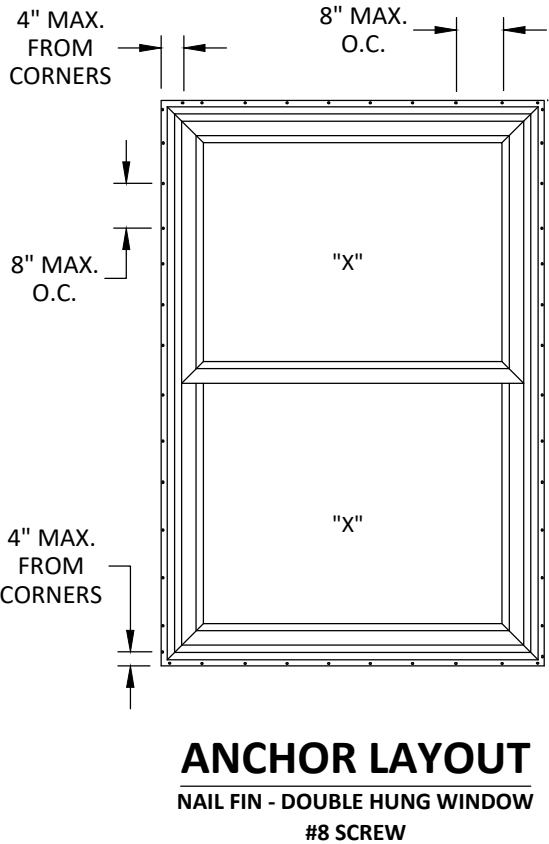
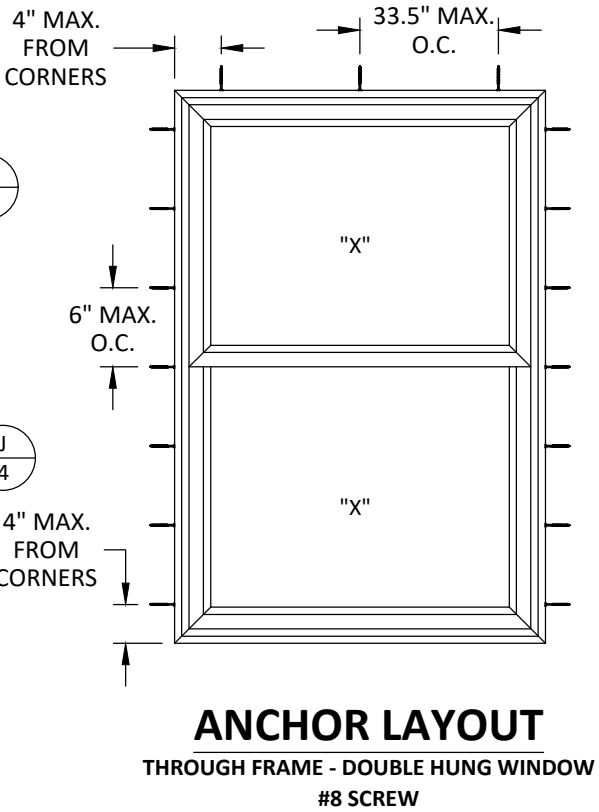


VALUES >50PSF ARE FOR INTERPOLATION PURPOSES ONLY. MAXIMUM ALLOWABLE DESIGN PRESSURE FOR THIS PRODUCT AND CONFIGURATION IS 50PSF

- NOTES:
- ALL EXPOSED FASTENER IN THE JAMB TRACKS MUST BE FLATHEADS. RECESSED FASTENERS CAN BE PAN HEADS
 - UPPER SASH WIDTH: FRAME WIDTH - 4 1/8"
UPPER SASH HEIGHT: (FRAME HEIGHT/2) - 1 1/16"
LOWER SASH WIDTH: FRAME WIDTH - 3 1/8"
LOWER SASH HEIGHT: (FRAME HEIGHT/2) - 1/16"
 - UPPER D.L.O. WIDTH: UPPER SASH WIDTH - 2 3/4"
UPPER D.L.O. HEIGHT: UPPER SASH HEIGHT - 2 3/4"
LOWER D.L.O. WIDTH: LOWER SASH WIDTH - 2 3/4"
LOWER D.L.O. HEIGHT: LOWER SASH HEIGHT - 2 3/4"

- TO CALCULATE THE DESIGN PRESSURE FOR AN UNEQUAL SPLIT (ORIEL OR COTTAGE STYLE):
- DETERMINE THE HEIGHT OF THE LARGER SECTION OF THE UNIT IN QUESTION.
 - CALCULATE THE NEW LARGER FRAME HEIGHT USING THIS LARGER SECTION AND ASSUMING IT IS NOW PART OF A STANDARD "EQUAL" SPLIT.
 - INTERPOLATE WITHIN THE TABLE BASED ON THE NEW HEIGHT.

LIMITATIONS:
SHORTER PORTION IS LESS THAN H/2 OF THE OVERALL HEIGHT OF THE UNEQUAL SPLIT, AND THE OVERALL FRAME SIZE OF THE UNEVEN SPLIT UNIT IS EQUAL TO OR LESS THAN THAT OF THE EVEN SPLIT UNIT



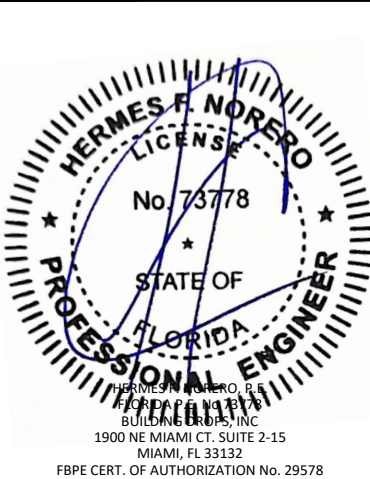
TITLE: EPIPHANY DOUBLE-HUNG WINDOWS (NON-HVHZ)(NON-IMPACT) ELEVATIONS AND ANCHOR LAYOUTS

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B.D.
BUILDING DROPS

REMARKS	BY	DATE
2023 FBC CODE CHANGE	MG	10/23/23

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FL #: **FL41945**

DATE: **02.08.23**

DWG. BY: **DI** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **SEM003**

SHEET:

TITLE: EPIPHANY DOUBLE-HUNG
WINDOWS
(NON-HVHZ)(NON-IMPACT)

VERTICAL SECTIONS

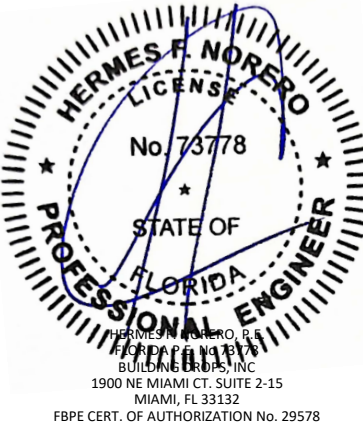
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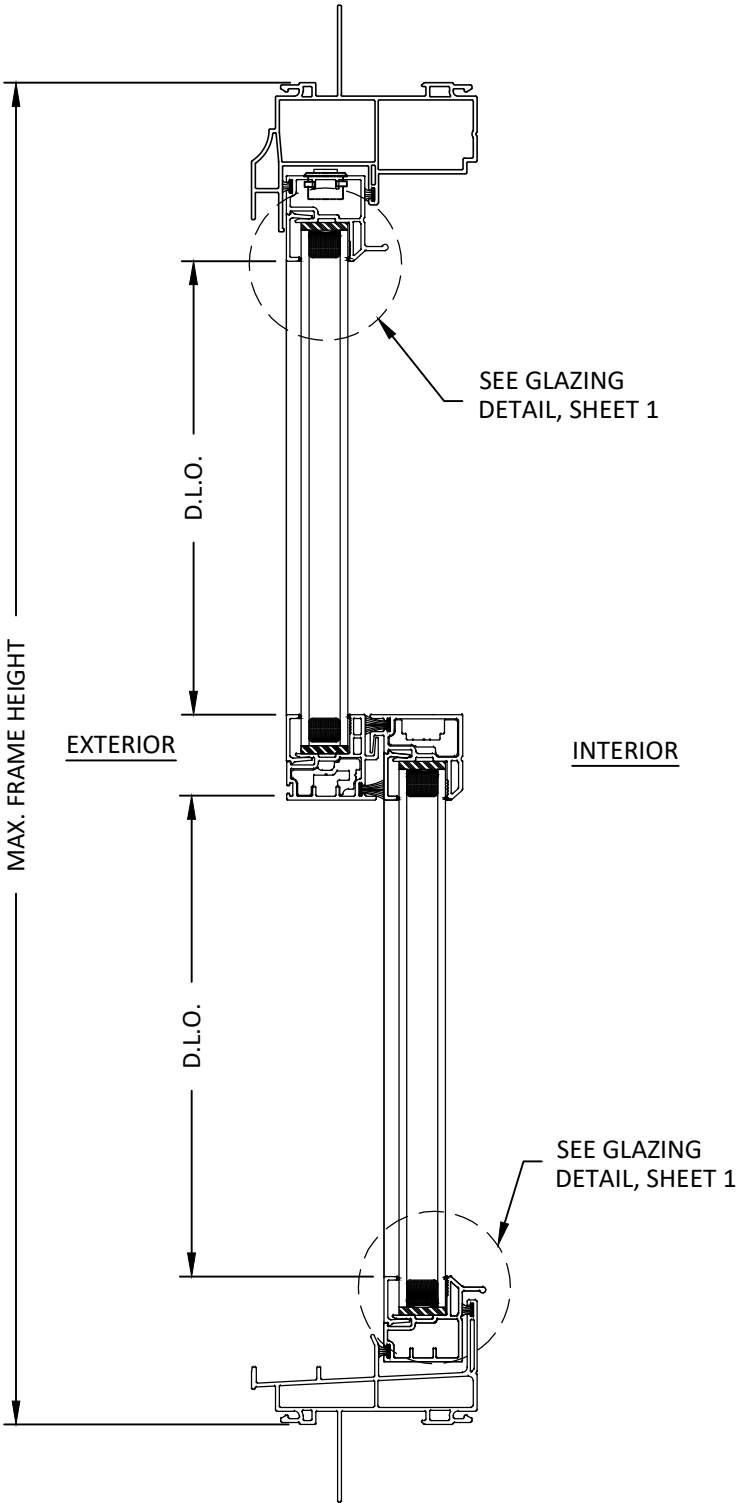


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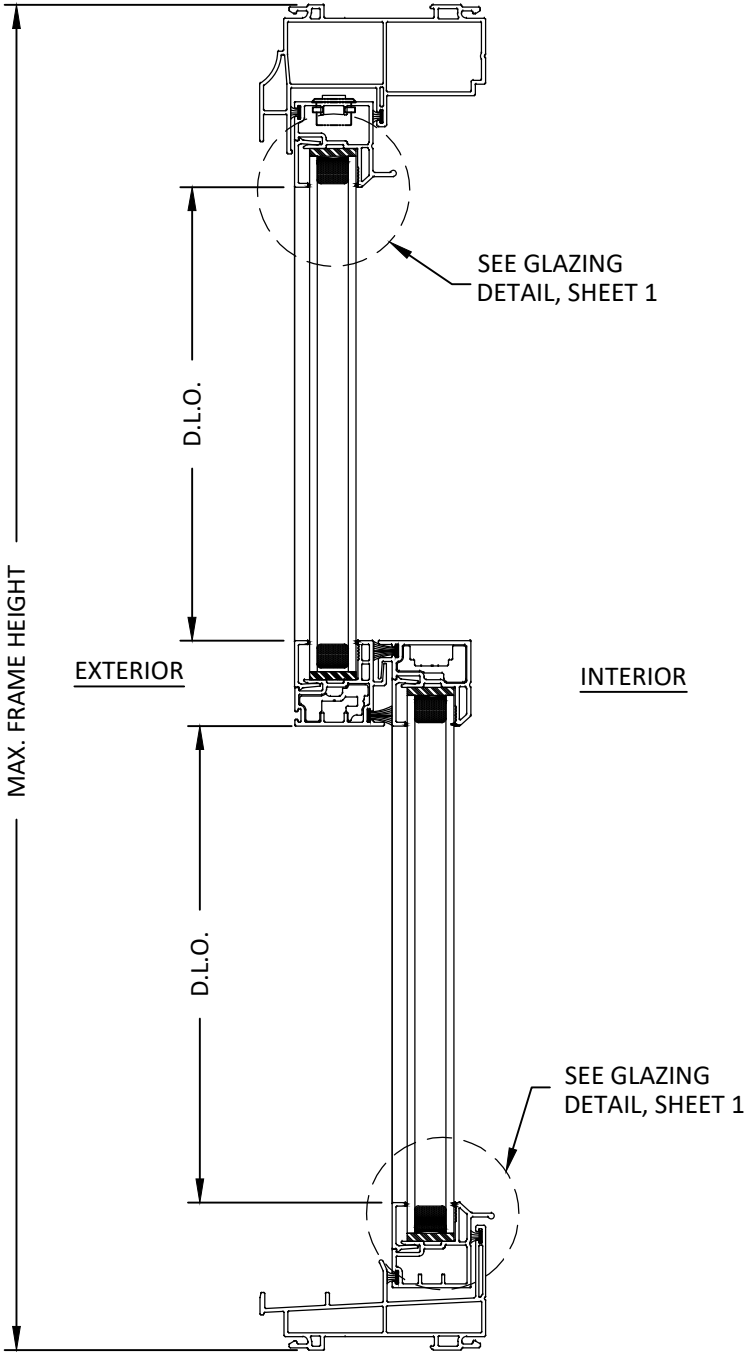
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SCALE:	NTS
DWG. #:	SEM003
SHEET:	3



A
3 VERTICAL SECTION
NAIL FIN



B
3 VERTICAL SECTION
THROUGH FRAME

TITLE: EIPHANY DOUBLE-HUNG
WINDOWS
(NON-HVHZ)(NON-IMPACT)

HORIZONTAL SECTIONS

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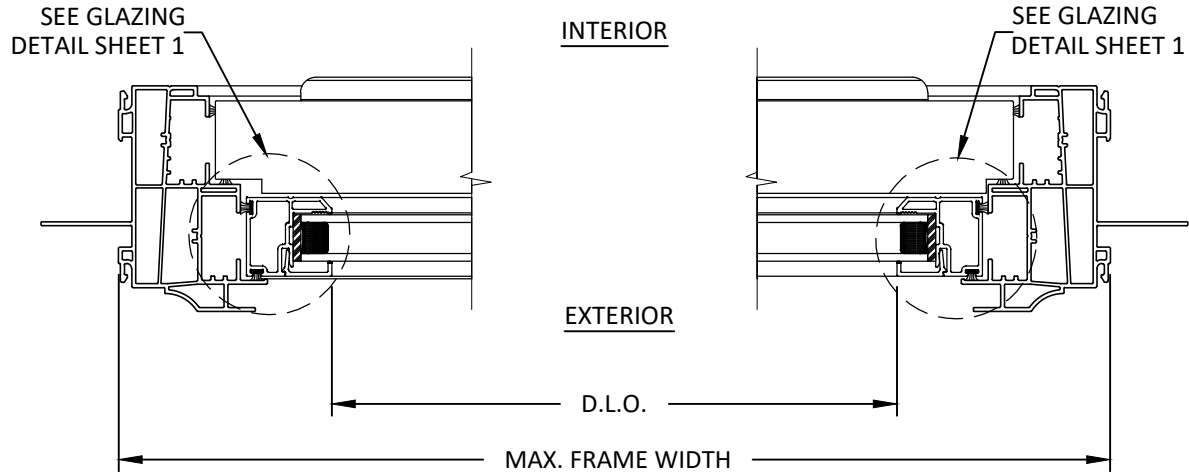
SCALE: NTS

DWG. #: SEM003

SHEET:

4

OF 5



C
4

HORIZONTAL SECTION

UPPER SASH - NAIL FIN

D
4

HORIZONTAL SECTION

UPPER SASH - NAIL FIN

G
4

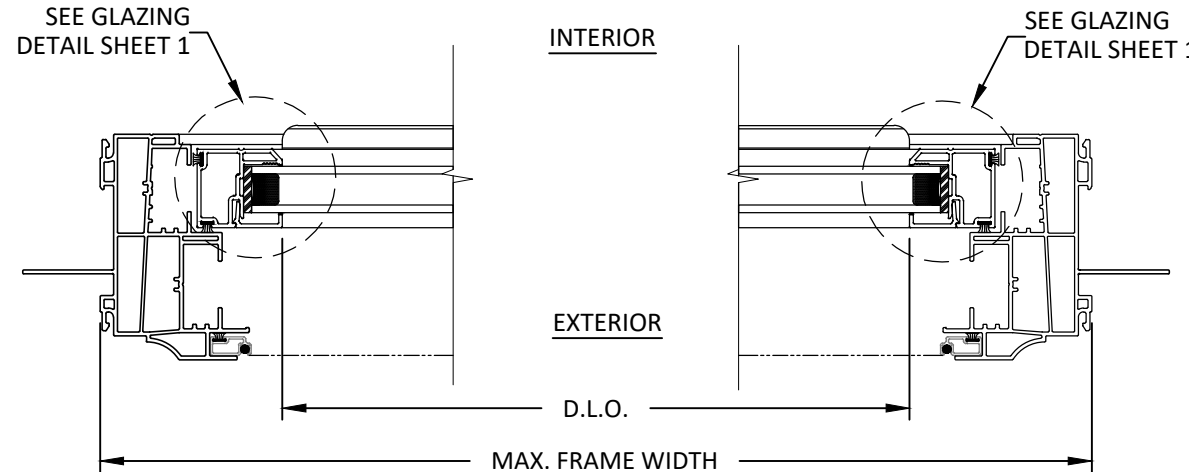
HORIZONTAL SECTION

UPPER SASH - THROUGH FRAME

H
4

HORIZONTAL SECTION

UPPER SASH - THROUGH FRAME



E
4

HORIZONTAL SECTION

LOWER SASH - NAIL FIN

F
4

HORIZONTAL SECTION

LOWER SASH - NAIL FIN

I
4

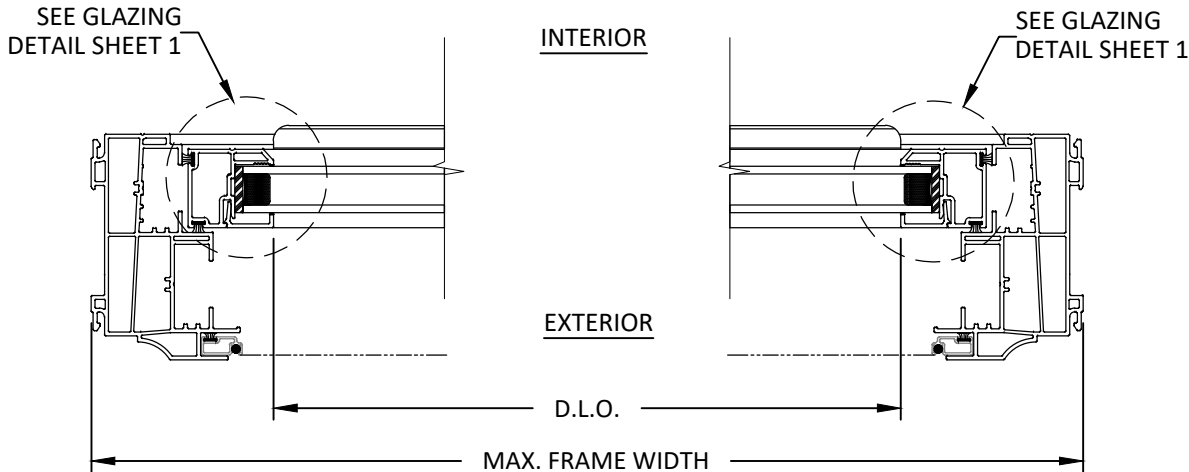
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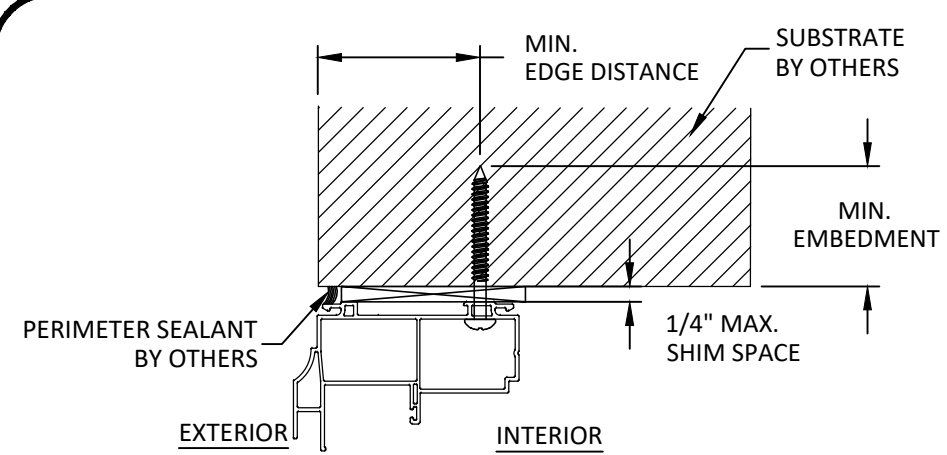
LOWER SASH - THROUGH FRAME

J
4

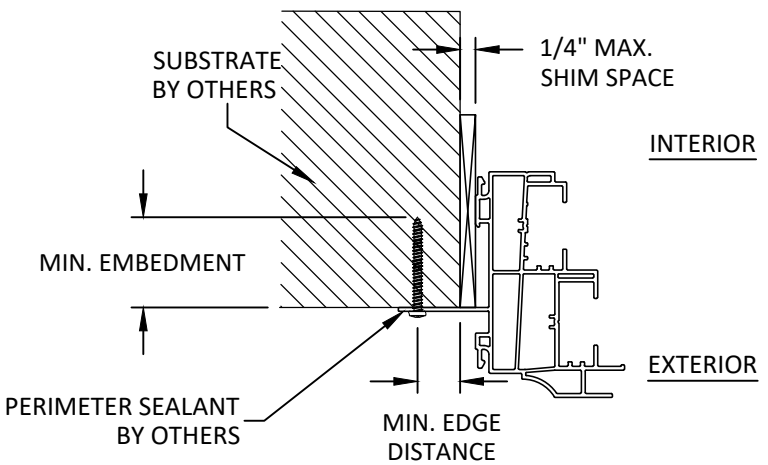
HORIZONTAL SECTION

LOWER SASH - THROUGH FRAME

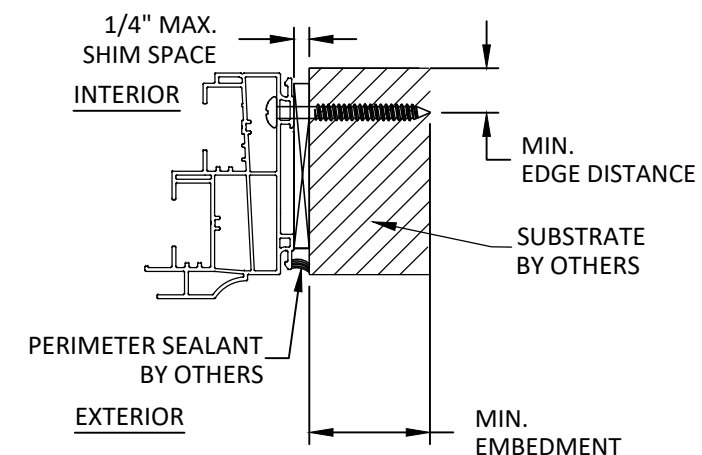




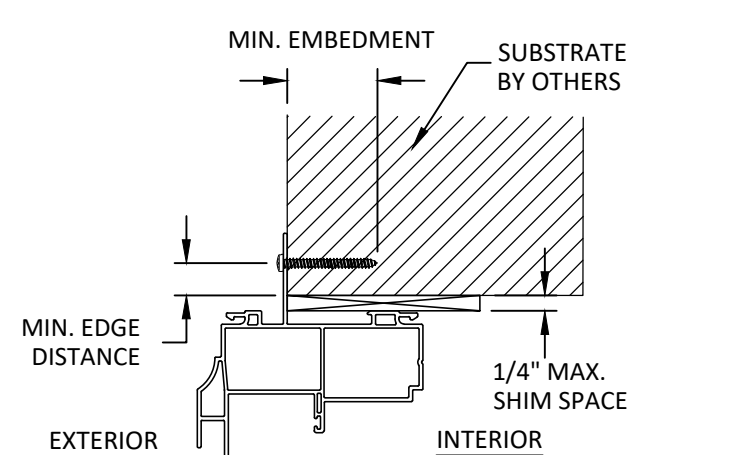
A
5 **ANCHOR DETAIL**
THROUGH FRAME (HEAD)



D
5 **ANCHOR DETAIL**
NAIL FIN (JAMB)



B
5 **ANCHOR DETAIL**
THROUGH FRAME (JAMB)



C
5 **ANCHOR DETAIL**
NAIL FIN (HEAD)

INSTALLATION NOTES:

- PER FMA/AAMA 100 FOR NAIL FIN INSTALLATION: APPLY A THICK, CONTINUOUS BEAD OF SEALANT ON THE INTERIOR SURFACE OF THE MOUNTING FIN ON THE HEAD AND JAMBS. AT THE SILL, APPLY A HEAVY, DISCONTINUOUS BEAD OF SEALANT ON THE INTERIOR SURFACE OF THE MOUNTING FIN, LEAVING A 2" VOID WITHIN 4" OF EACH PERIMETER JAMB (TOTAL OF 2 VOIDS PER WINDOW ALONG THE SILL). LOCATE THE SEALANT BEAD ALONG THE INSIDE EDGE OF THE FASTENER SLOTS
- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- 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.
- FOR THROUGH FRAME INSTALLATION, SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). FOR NAIL FIN INSTALLATION, SHIM AS REQUIRED TO ACHIEVE SQUARE AND PLUMB, INCLUDING AT EACH STRUCTURAL CLIP LOCATED AT THE MIDPOINT OF THE VERTICAL SASH STILES OF BOTH UPPER AND LOWER SASHES, 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, 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.
- FOR INSTALLATION ANCHORS ABOVE THE MEETING RAIL IN THE INTERIOR JAMB TRACK, USE FLAT HEAD ANCHORS.

ANCHOR SCHEDULE				
METHOD	SUBSTRATE	ANCHOR SCHEDULE	MIN EMBEDMENT	MIN. EDGE DISTANCE
NAILING FIN	WOOD: MIN. SG = 0.55	#8 OR #10 WOOD SCREW PAN HEAD OR 2" GALVINIZED ROOFING NAIL (.125" DIA., 3/8" HEAD DIA. MIN.)	1.5"	0.75"
	METAL: 18 GAUGE Steel, MIN. Fy = 33KSI	#8 OR #10 PAN HEAD SDS	3 THREADS MIN PENETRATION BEYOND METAL	0.50"
THROUGH FRAME	WOOD: MIN. SG = 0.55	#8 OR #10 WOOD SCREW PAN HEAD	1.5"	0.75"
	METAL: 18 GAUGE Steel, MIN. Fy = 33KSI	#8 OR #10 PAN HEAD SDS	3 THREADS MIN PENETRATION BEYOND METAL	0.50"
	CONCRETE: f _c =3000PSI	3/16" ITW TAPCON FLAT HEAD	1.25"	1.75"
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI	3/16" ITW TAPCON FLAT HEAD	1.25"	1.75"

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