

ANDERSEN CORPORATION

RENEWAL BY ANDERSEN SERIES GLIDER WINDOW (NON-IMPACT) (NON-HVHZ)

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/A440-08/11
- 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 ±1/4 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.
- 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: FIBREX & PVC
- IN ACCORDANCE WITH THE CURRENT EDITION FBC, WOOD COMPONENTS SHALL HAVE BEEN PRESERVATIVE TREATED OR SHALL BE OF A DURABLE SPECIES AS DEFINED IN CHAPTER 23.
- GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.

DESIGN PRESSURE RATING			
SIZE	CONFIGURATION	DESIGN PRESSURE	SASH WIDTH RATIO
72" X 80"	XO	+40.0 / -40.0 PSF	1:1
96" X 54"	XO	+40.0 / -40.0 PSF	1:1
96" X 72"	XO	+40.0 / -40.0 PSF	1:1
108" X 54"	XO	+25.0 / -25.0 PSF	1:2
108" X 72"	XO	+20.0 / -20.0 PSF	1:2
56" X 80"	XO	+40.0 / -40.0 PSF	1:2
74" X 54"	XO	+40.0 / -40.0 PSF	1:2
74" X 72"	XO	+35.0 / -35.0 PSF	1:2
48" X 48"	XX	+40.0 / -40.0 PSF	1:1
72" X 80"	XX	+30.0 / -30.0 PSF	1:1
96" X 54"	XX	+35.0 / -35.0 PSF	1:1
96" X 60"	XX	+35.0 / -35.0 PSF	1:1
96" X 72"	XX	+20.0 / -20.0 PSF	1:1
144" X 54"	XOX	+30.0 / -30.0 PSF	1:1:1
144" X 72"	XOX	+25.0 / -25.0 PSF	1:1:1
84" X 60"	XOX	+40.0 / -40.0 PSF	1:1:1
84" X 80"	XOX	+35.0 / -35.0 PSF	1:1:1
144" X 54"	XOX	+30.0 / -30.0 PSF	1:2:1
144" X 72"	XOX	+25.0 / -25.0 PSF	1:2:1
84" X 60"	XOX	+40.0 / -40.0 PSF	1:2:1
84" X 80"	XOX	+35.0 / -35.0 PSF	1:2:1

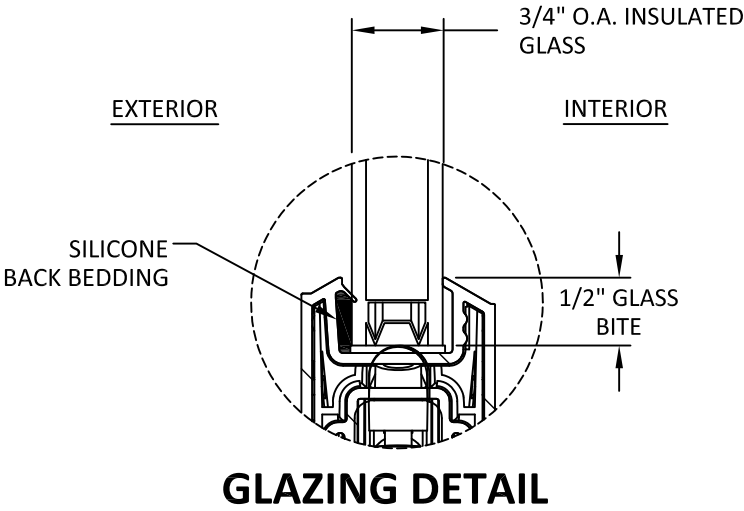
DESIGN PRESSURE UPGRADE RATING			
SIZE	CONFIGURATION	DESIGN PRESSURE	SASH WIDTH RATIO
56" X 48"	XO	+61.0 / -79.0 PSF	1:1
40" X 40"	XO	+81.0 / -100.0 PSF	1:1
88" X 64"	XO	+42.0 / -43.0 PSF	1:1
74" X 72"	XO	+50.0 / -50.0 PSF	1:1
74" X 64"	XO	+50.0 / -65.0 PSF	1:1
108" X 72"	XOX	+26.0 / -26.0 PSF	1:1:1 & 1:2:1
120" X 64"	XOX	+28.0 / -28.0 PSF	1:1:1 & 1:2:1
56" X 48"	XOX	+61.0 / -79.0 PSF	1:1:1 & 1:2:1
74" X 64"	XOX	+50.0 / -65.0 PSF	1:1:1 & 1:2:1
108" X 64"	XOX	+40.0 / -40.0 PSF	1:1:1 & 1:2:1

*SEE FRAME DESCRIPTIONS ON SHEET 6 & 8

NOTES:

- DP UPGRADE PRODUCT POSITIVE RATING IS DRIVEN BY STRUCTURAL ONLY. WATER IS NOT INCLUDED.
- DP UPGRADE PRODUCT MUST BE INSTALLED THROUGH FRAME ONLY, EXCEPT ON SILL WHERE JAMB CLIPS MUST BE USED.

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9	-	INSTALLATION NOTES & ANCHOR SCHEDULE



GLAZING NOTES:

- GLASS TYPE & THICKNESS SHALL COMPLY WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING 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 IN DESIGN PRESSURE TABLES ON SHEET 1.



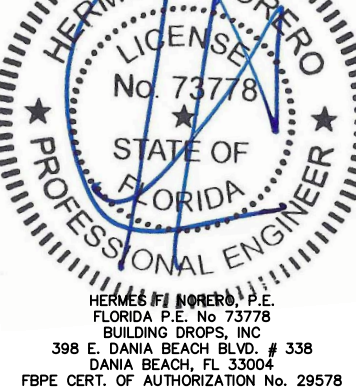
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: RENEWAL SERIES GLIDING WINDOW (NON-IMPACT) (NON-HVHZ)
GENERAL NOTES & GLAZING DETAIL
PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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: 2018.12.17 15:52:37 -0500



FL #:

FL19563

DATE: **11.07.18**

DWG. BY: **RV** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **AWD243**

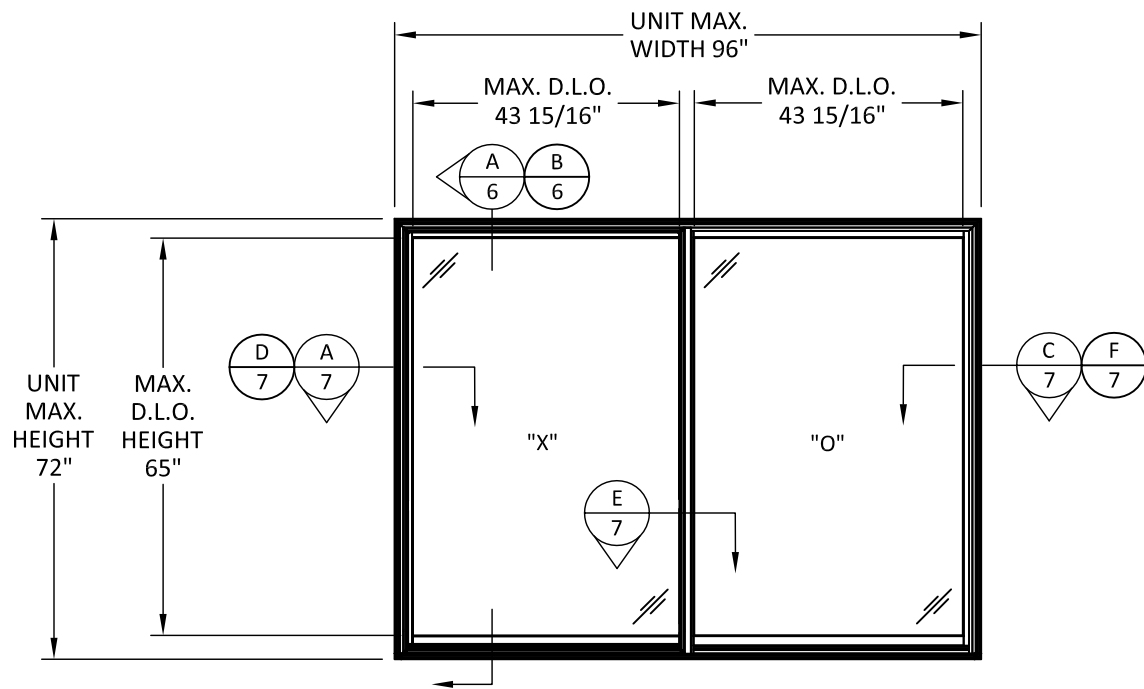
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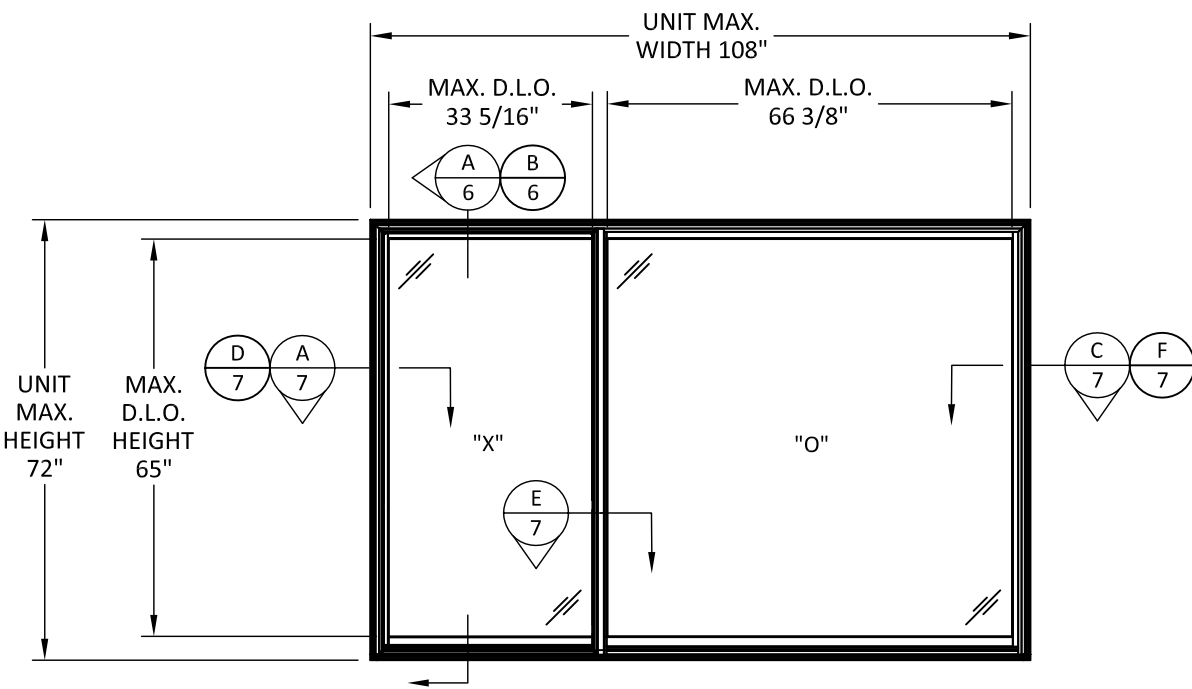
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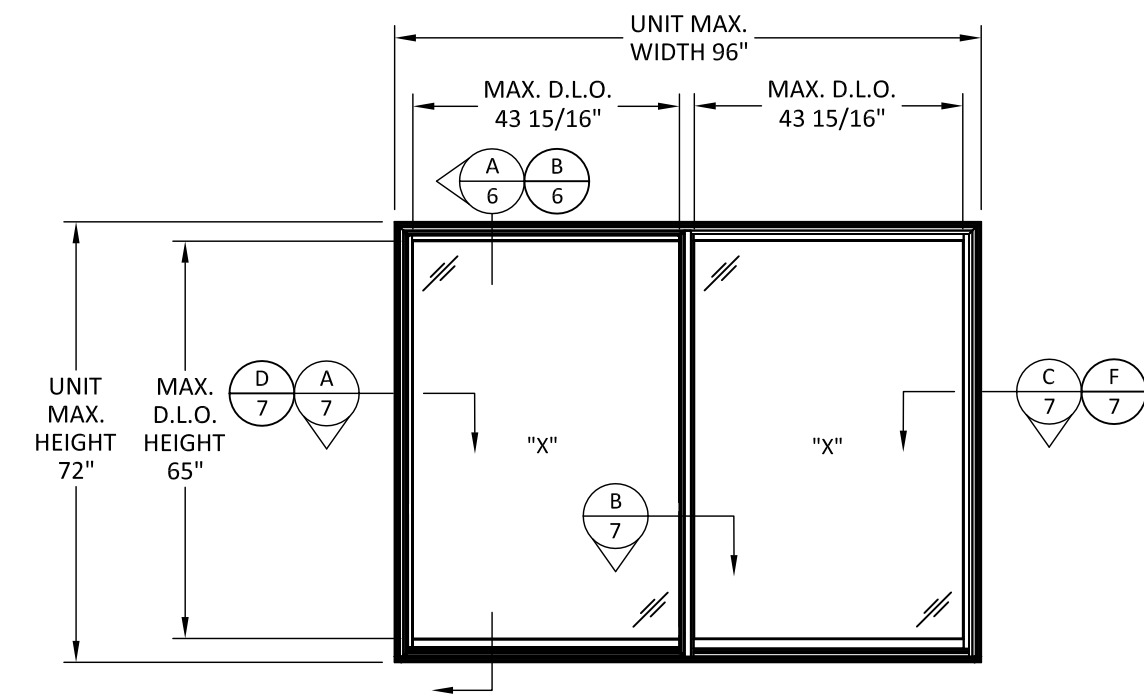


ELEVATION
96" X 72" XO UNIT
1:1 SASH RATIO

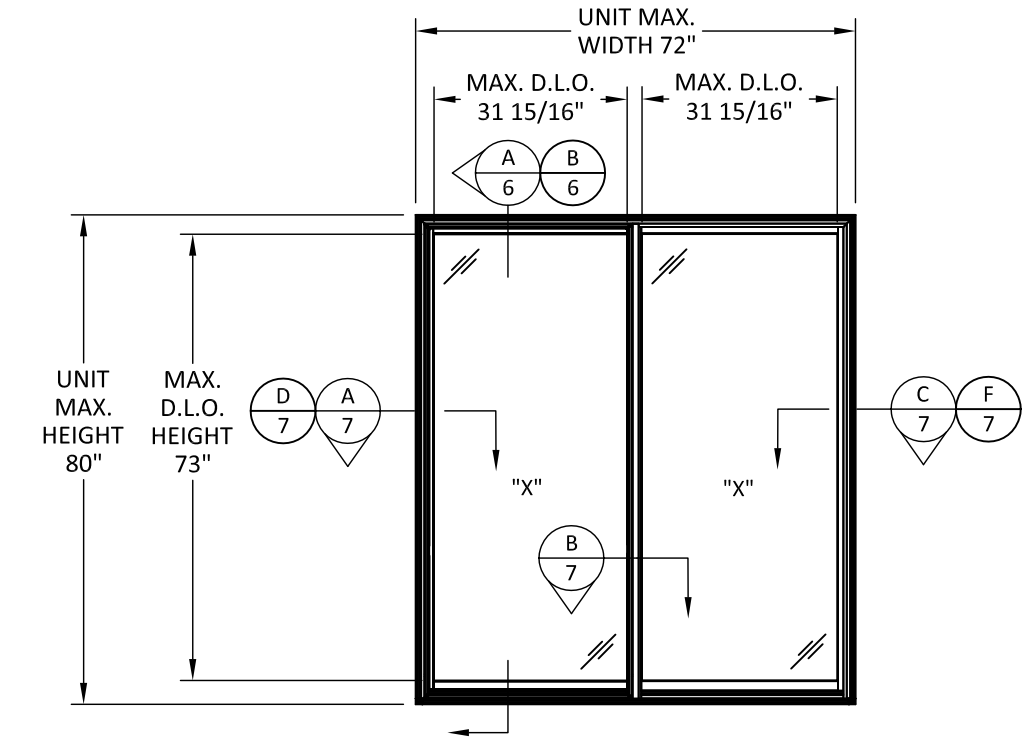


ELEVATION
108" X 72" XO UNIT
1:2 SASH RATIO

NOTE:
ALTERNATE MEETING STILE LOCATIONS
MAY BE USED SUCH THAT MAX. DLO
DIMENSIONS SHOWN HEREIN ARE NOT
EXCEEDED. UNEQUAL SASH RATIO NOT
AVAILABLE FOR ACTIVE/ACTIVE (XX) UNITS.



ELEVATION
96" X 72" XX UNIT
1:1 SASH RATIO



ELEVATION
72" X 80" XX UNIT
1:1 SASH RATIO

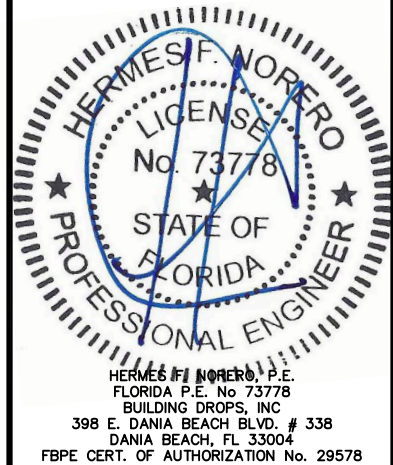


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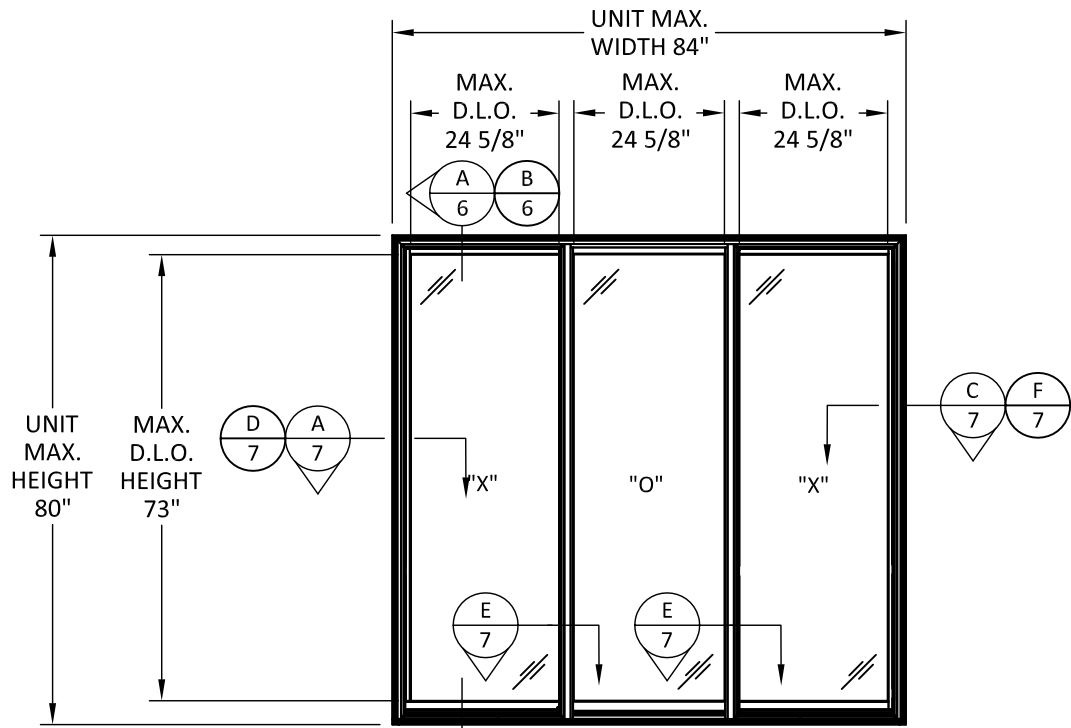
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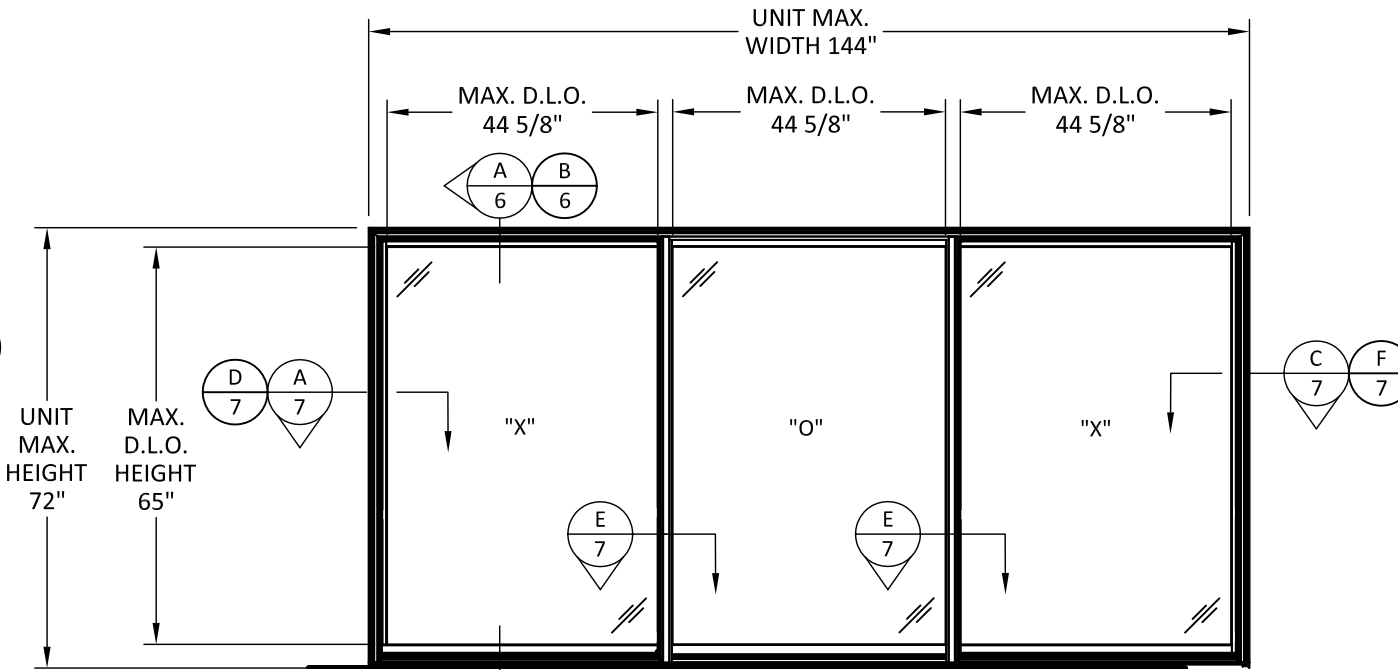
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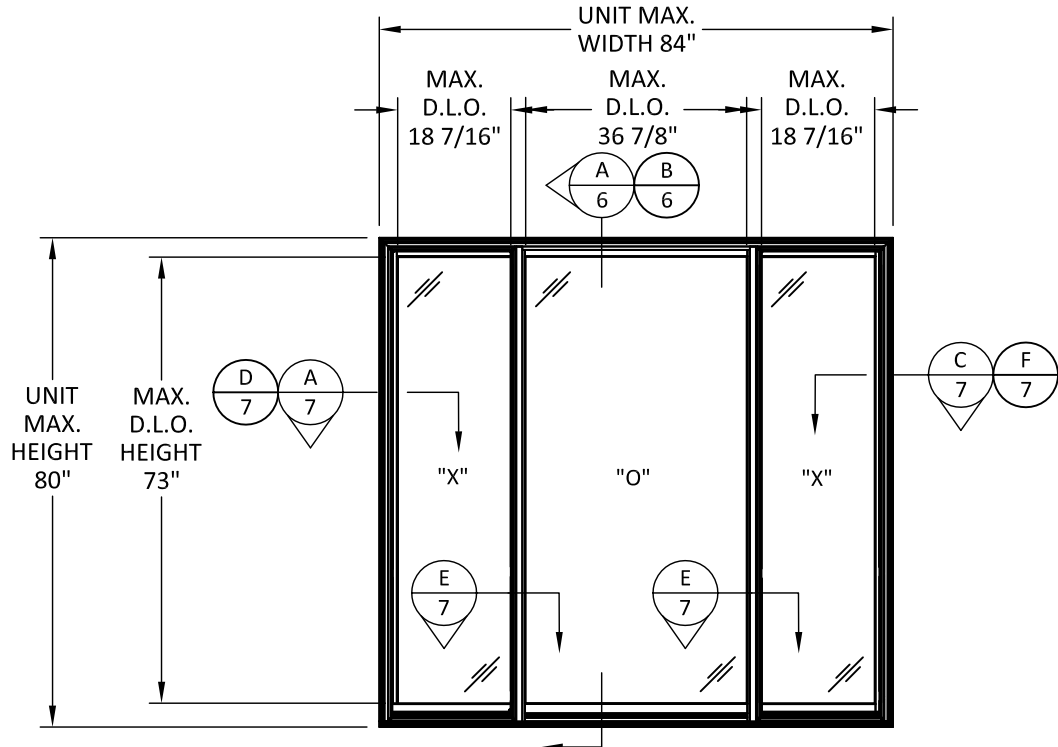


ELEVATION
84" X 80" XOX UNIT
1:1:1 SASH RATIO

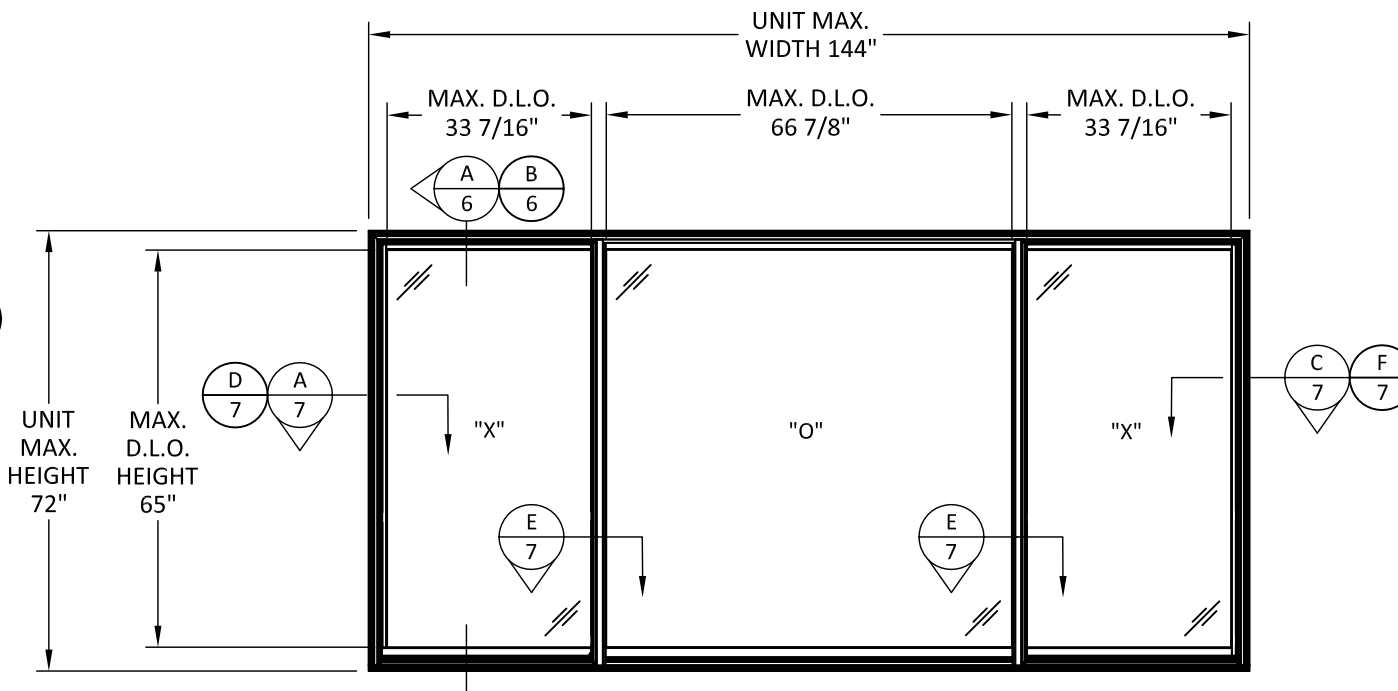


ELEVATION
144" X 72" XOX UNIT
1:1:1 SASH RATIO

NOTE:
ALTERNATE MEETING STILE
LOCATIONS MAY BE USED SUCH
THAT MAX. DLO DIMENSIONS
SHOWN HEREIN ARE NOT
EXCEEDED.



ELEVATION
84" X 80" XOX UNIT
1:2:1 SASH RATIO



ELEVATION
144" X 72" XOX UNIT
1:2:1 SASH RATIO



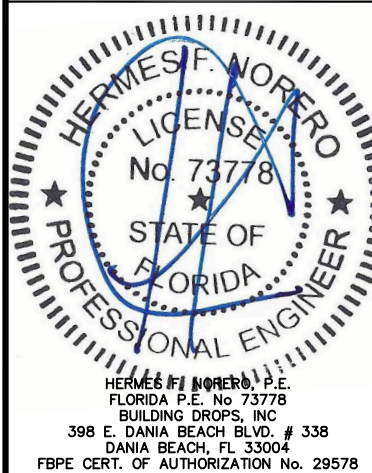
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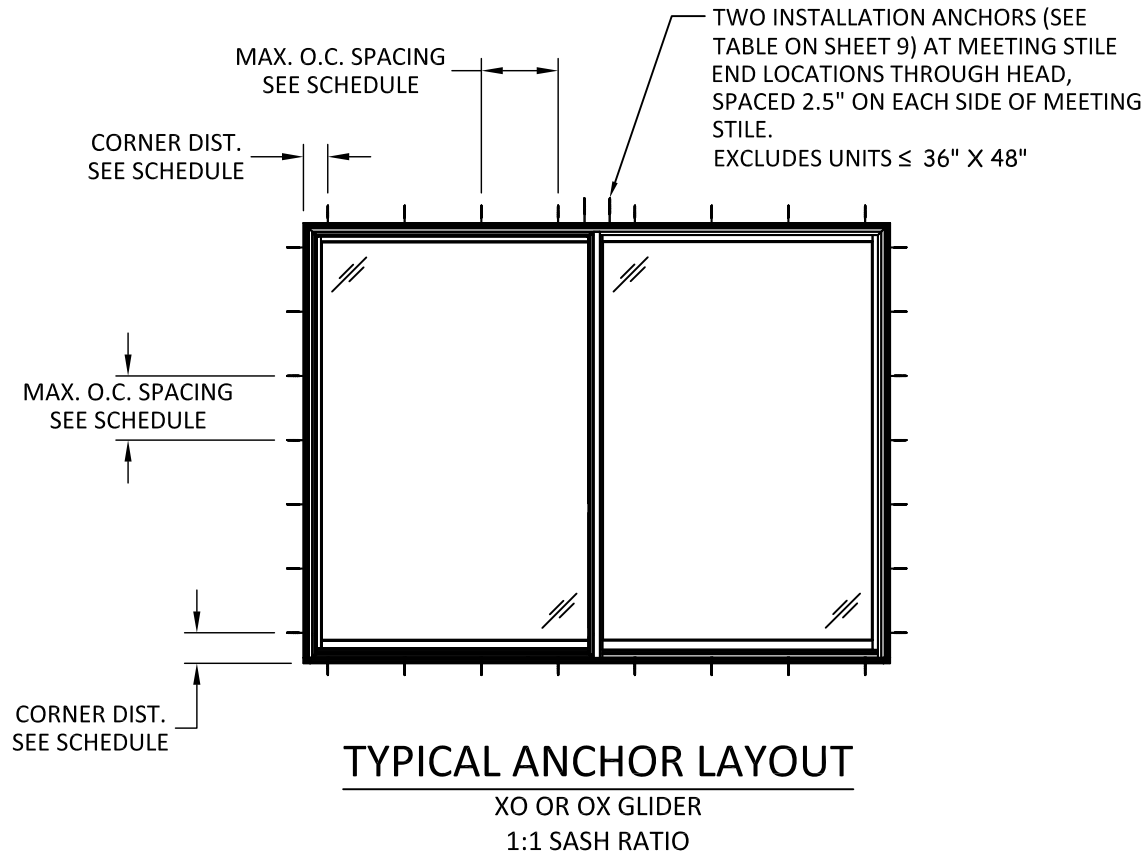
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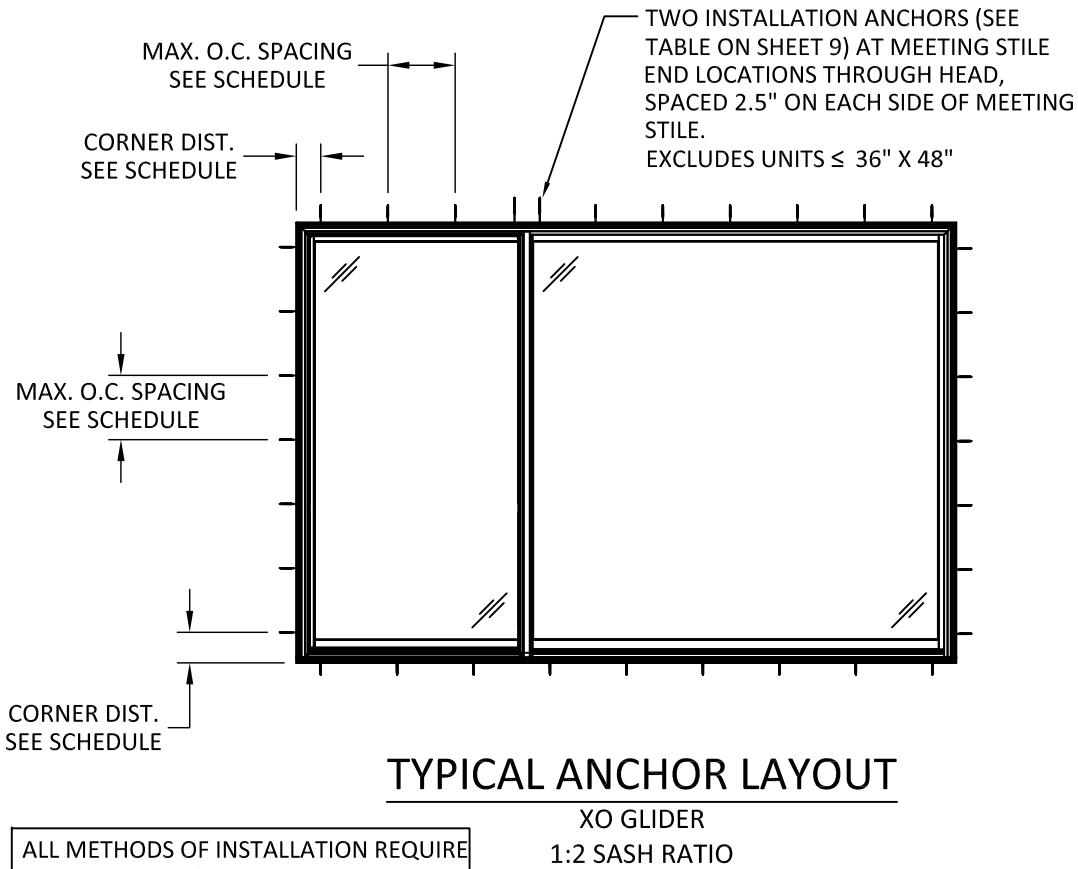
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RENEWAL SERIES GLIDER ANCHOR SPACING					
CONFIG.	INSTALLATION METHOD	FROM CORNERS (IN)	MAX O.C. HEAD (IN)	MAX O.C. SILL (IN)	MAX O.C. JAMBS (IN)
"XO" OR "XX" GLIDER 1:1 SASH RATIO	NAIL FIN	3.5	3.5	3.5	3.5
	INSTALLATION CLIP	5.5	15.25	15.25	16
	THROUGH FRAME	5.5	10.125	SEE NOTES	15.25
"XO" OR "XX" GLIDER 1:2 SASH RATIO	NAIL FIN	3.5	3.5	3.5	3.5
	INSTALLATION CLIP	5.5	15	15	16
	THROUGH FRAME	5.5	11.25	SEE NOTES	17.25

INSTALLATION NOTES:

- FOR THROUGH FRAME INSTALLATIONS, INSTALLATION CLIPS MUST BE USED AT THE SILL IN LIEU OF FASTENERS THROUGH FRAME, SPACED IN ACCORDANCE WITH THE INSTALLATION CLIP SPACING REQUIREMENTS LISTED IN THE ABOVE TABLE.
- FOR CUSTOM SASH RATIOS, USE WORST CASE ANCHOR SPACING BETWEEN EQUAL SASH AND 1:2 OR 1:2:1 SASH RATIOS FROM TABLE ABOVE.
- REFER TO SHEET 1, SEE TABLE ON SHEET 9 FOR ANCHOR TYPE DEPENDENT ON INSTALLATION METHOD AND SUBSTRATE.



ALL METHODS OF INSTALLATION REQUIRE A CONTINUOUS 1/2" BEAD OF SILICONE BELOW THE SILL

RENEWAL SERIES DP UPGRADE GLIDER ANCHOR SPACING					
CONFIG. & SIZE	INSTALLATION METHOD	FROM CORNERS (IN)	MAX O.C. HEAD (IN)	MAX O.C. SILL (IN)	MAX O.C. JAMBS (IN)
XO & OX GLIDER 40" X 40"	THROUGH FRAME & JAMB CLIP INSTALL (SILL ONLY)	5.5	9	9	9
XO & OX GLIDER 56" X 48"	THROUGH FRAME & JAMB CLIP INSTALL (SILL ONLY)	5.5	9	9	9
XO & OX GLIDER 74" X 64"	THROUGH FRAME & JAMB CLIP INSTALL (SILL ONLY)	5.5	9	9	9
XO & OX GLIDER 74" X 72"	THROUGH FRAME & JAMB CLIP INSTALL (SILL ONLY)	5.5	12.5	12.5	12.5
XO & OX GLIDER 88" X 64"	THROUGH FRAME & JAMB CLIP INSTALL (SILL ONLY)	5.5	15.25	15.25	15.25

INSTALLATION NOTES:

- DP UPGRADE PRODUCTS WHEN ANCHORING WITH 3/16" ITW TAPCON FASTENERS THE JAMB SHIM MUST BE USED BETWEEN THE FRAME AND THE 1/4" SHIM STACK. JAMB SHIM NOT REQUIRED WHEN USING JAMB CLIP FOR SILL FASTENING.



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

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ANCHOR LAYOUTS

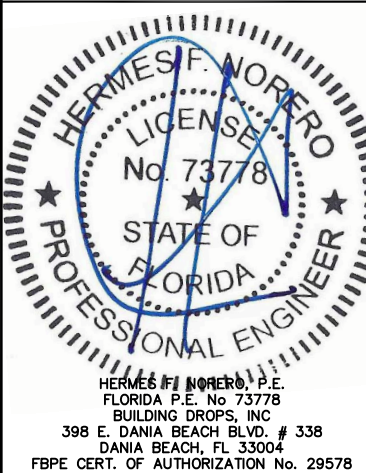
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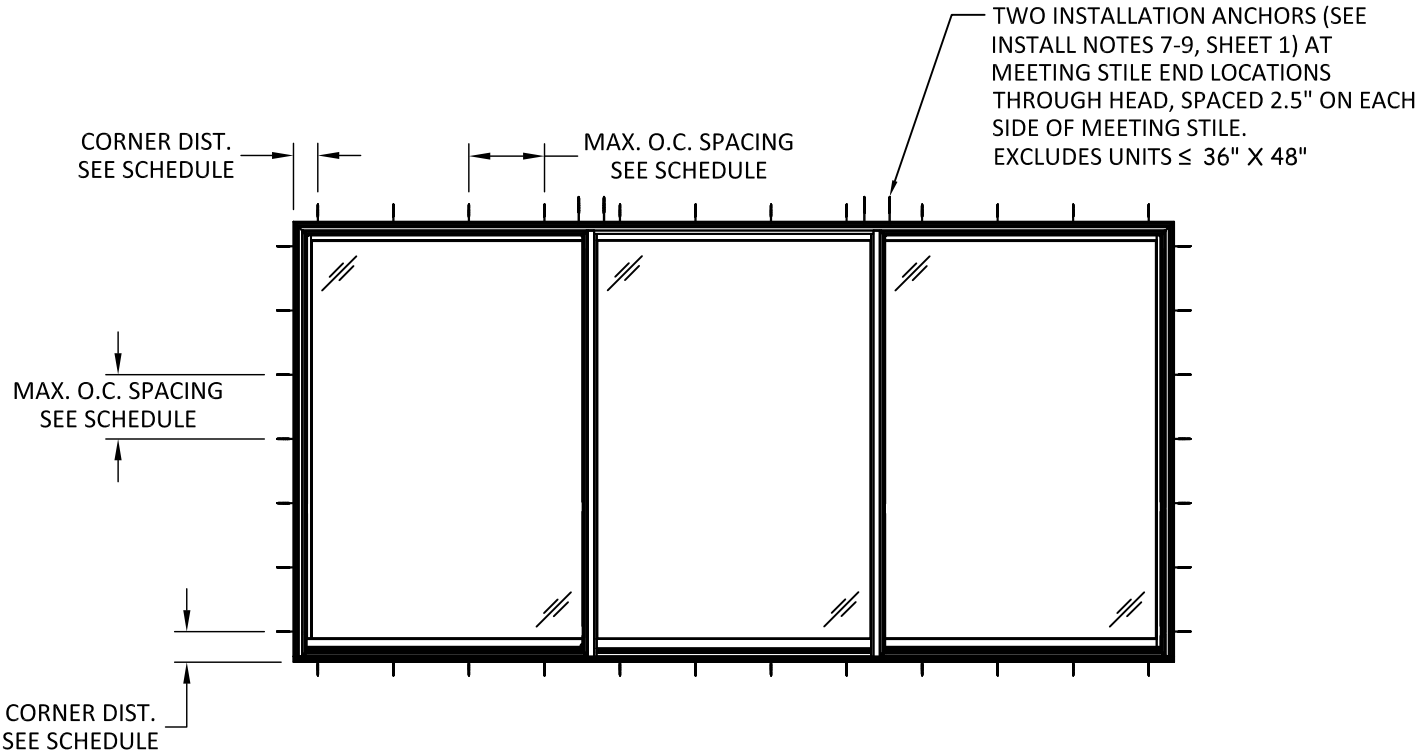
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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD243
SHEET:	4

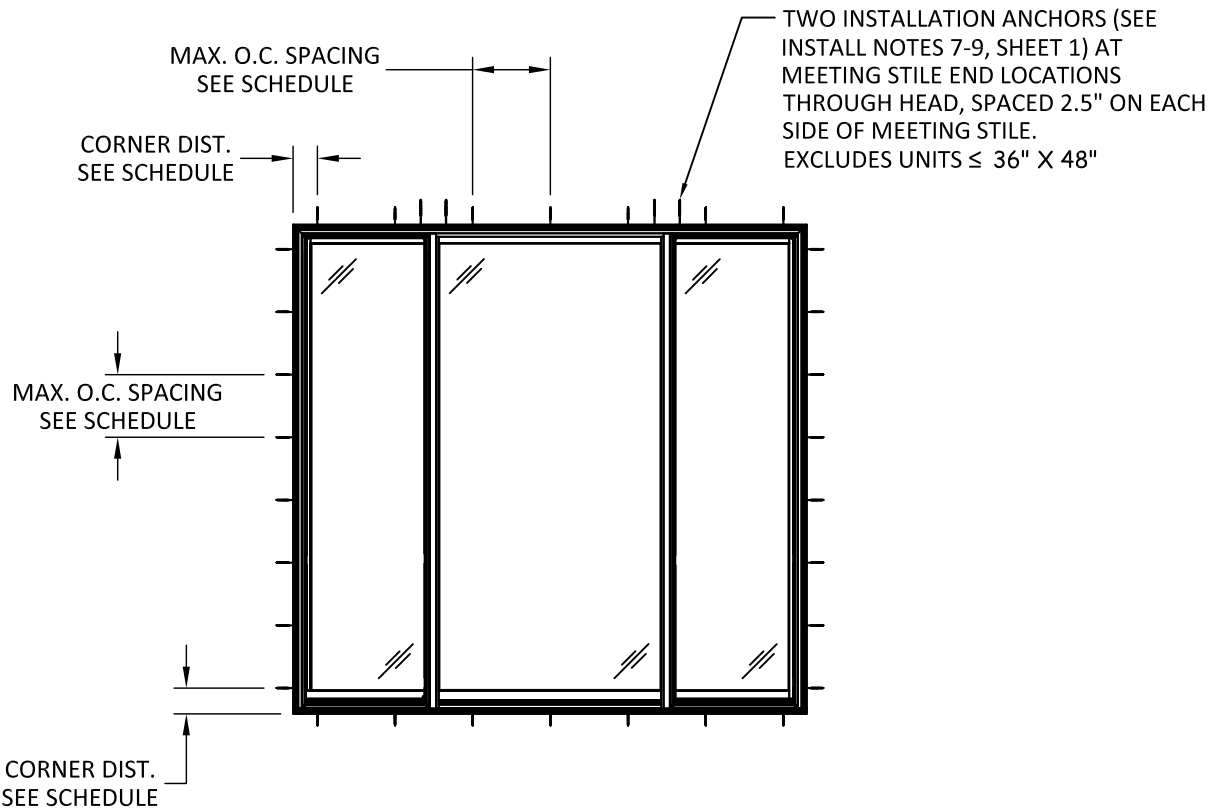
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TYPICAL ANCHOR LAYOUT

XOX GLIDER
1:1:1 SASH RATIO



TYPICAL ANCHOR LAYOUT

XOX GLIDER
1:2:1 SASH RATIO

ALL METHODS OF INSTALLATION REQUIRE
A CONTINUOUS 1/2" BEAD OF SILICONE
BELOW THE SILL

RENEWAL SERIES GLIDER ANCHOR SPACING					
CONFIG.	INSTALLATION METHOD	FROM CORNERS (IN)	MAX O.C. HEAD (IN)	MAX O.C. SILL (IN)	MAX O.C. JAMBS (IN)
"XOX" GLIDER 1:1:1 SASH RATIO	NAIL FIN	3.5	3.5	3.5	3.5
	INSTALLATION CLIP	5.5	14.5	14.5	16
	THROUGH FRAME	5.5	10.375	SEE NOTES	21.5
"XOX" GLIDER 1:2:1 SASH RATIO	NAIL FIN	3.5	3.5	3.5	3.5
	INSTALLATION CLIP	5.5	12.125	12.125	16
	THROUGH FRAME	5.5	10.5	SEE NOTES	22

INSTALLATION NOTES:

- FOR THROUGH FRAME INSTALLATIONS, INSTALLATION CLIPS MUST BE USED AT THE SILL IN LIEU OF FASTENERS THROUGH FRAME, SPACED IN ACCORDANCE WITH THE INSTALLATION CLIP SPACING REQUIREMENTS LISTED IN THE ABOVE TABLE.
- FOR CUSTOM SASH RATIOS, USE WORST CASE ANCHOR SPACING BETWEEN EQUAL SASH AND 1:2 OR 1:2:1 SASH RATIOS FROM TABLE ABOVE.
- REFER TO SHEET 1, INSTALLATION NOTES 4-11 FOR ANCHOR TYPE DEPENDENT ON INSTALLATION METHOD AND SUBSTRATE.

RENEWAL SERIES DP UPGRADE GLIDER ANCHOR SPACING					
CONFIG. & SIZE	INSTALLATION METHOD	FROM CORNERS (IN)	MAX O.C. HEAD (IN)	MAX O.C. SILL (IN)	MAX O.C. JAMBS (IN)
XOX GLIDER 1:1:1 & 1:2:1 56" X 48"	THROUGH FRAME & JAMB CLIP INSTALL (SILL ONLY)	5.5	9	9	9
XOX GLIDER 1:1:1 & 1:2:1 74" X 64"	THROUGH FRAME & JAMB CLIP INSTALL (SILL ONLY)	5.5	9	9	9
XOX GLIDER 1:1:1 & 1:2:1 108" X 64"	THROUGH FRAME & JAMB CLIP INSTALL (SILL ONLY)	5.5	10.5	12.125	13.75
XOX GLIDER 1:1:1 & 1:2:1 108" X 72"	THROUGH FRAME & JAMB CLIP INSTALL (SILL ONLY)	5.5	10.5	12.125	19.25
XOX GLIDER 1:1:1 & 1:2:1 120" X 64"	THROUGH FRAME & JAMB CLIP INSTALL (SILL ONLY)	5.5	10.5	12.125	17.5

INSTALLATION NOTES:

- DP UPGRADE PRODUCTS WHEN ANCHORING WITH 3/16" ITW TAPCON FASTENERS THE JAMB SHIM MUST BE USED BETWEEN THE FRAME AND THE 1/4 INCH SHIM STACK. JAMB SHIM NOT REQUIRED WHEN USING JAMB CLIP FOR SILL FASTENING.



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TITLE: RENEWAL SERIES GLIDING WINDOW (NON-IMPACT) (NON-HVHZ) ANCHOR LAYOUTS

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HERMES F. NORERO
LICENSED PROFESSIONAL ENGINEER
No. 73778
STATE OF FLORIDA

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL19563

DATE: **11.07.18**

DWG. BY: **RV**CHK. BY: **HFN**

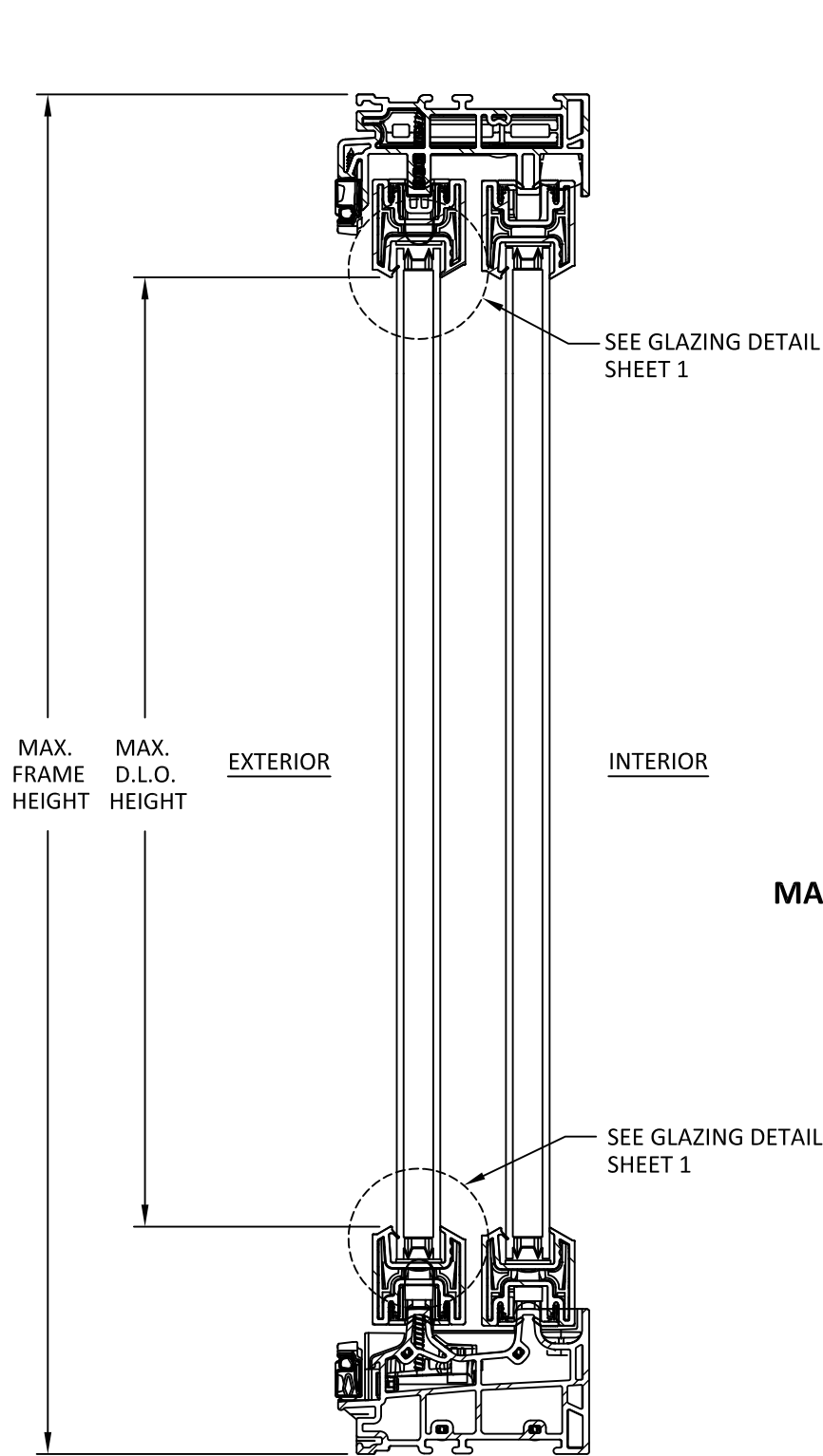
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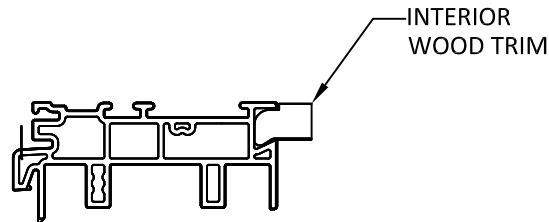
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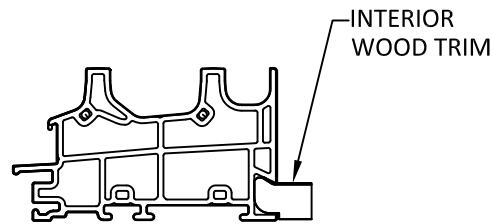
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A
6 **VERTICAL SECTION**
THROUGH FRAME AND THROUGH CLIP INSTALLATION

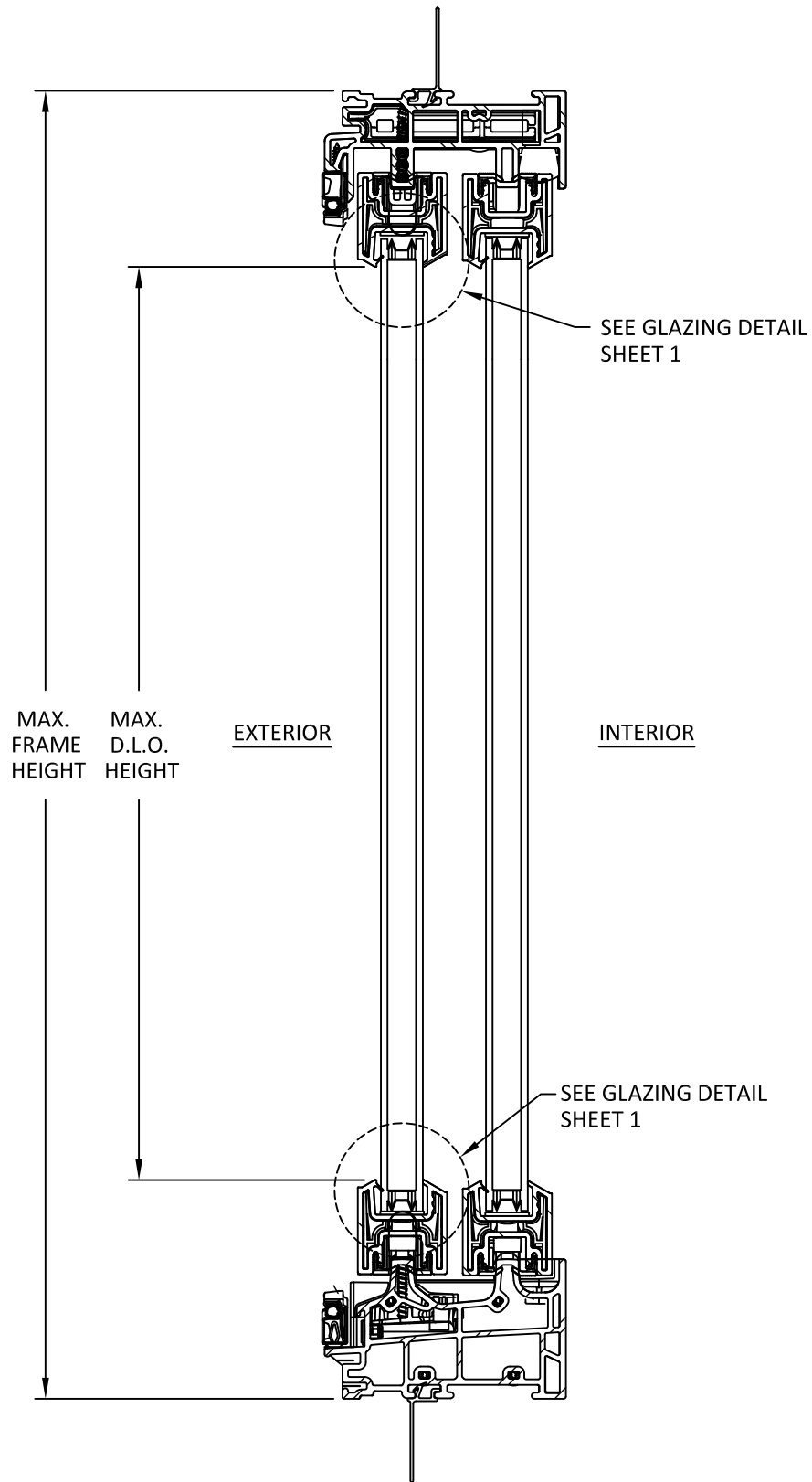


EJ HEAD/JAMB FRAME



EJ SILL FRAME

ALTERNATE EJ FRAME
MAY BE USED AS EQUAL ALTERNATE FRAME TYPE



B
6 **VERTICAL SECTION**
NAIL FIN INSTALLATION

NAIL FIN/FLANGE IS REVERSIBLE, SEE ORIENTATION DIFFERENCE BETWEEN HEAD AND SILL.



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VERTICAL SECTIONS

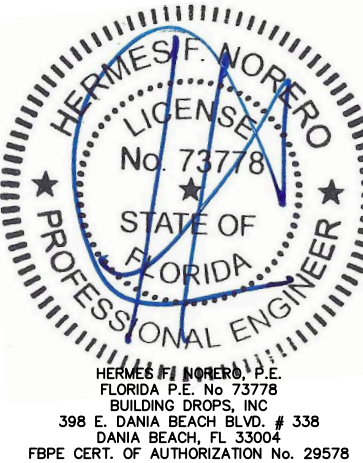
PREPARED BY: BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE

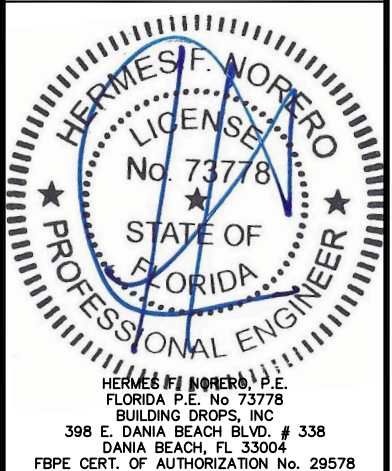
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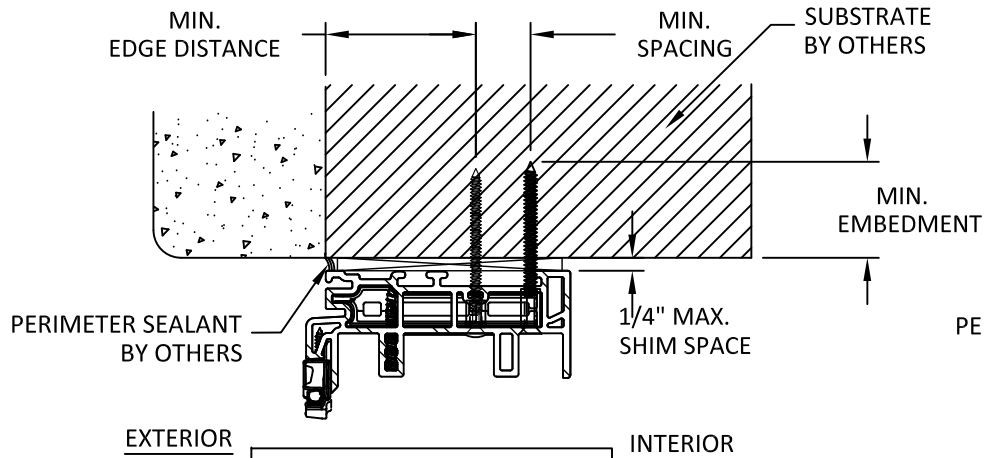
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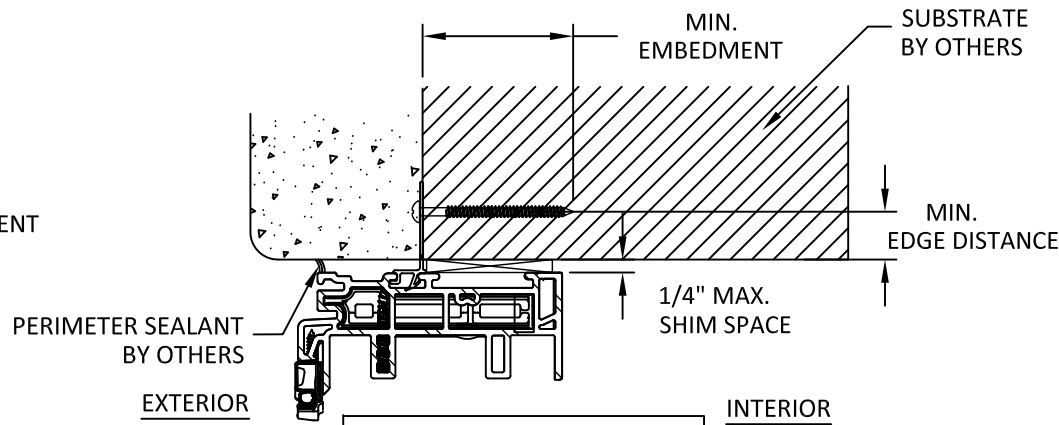
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s:\projects\andersen windows\lbc-18-0822 - fbc submittal - rba fixed, casement, awning, & gliding window - high performance\dwgs\hslawd243.dwg



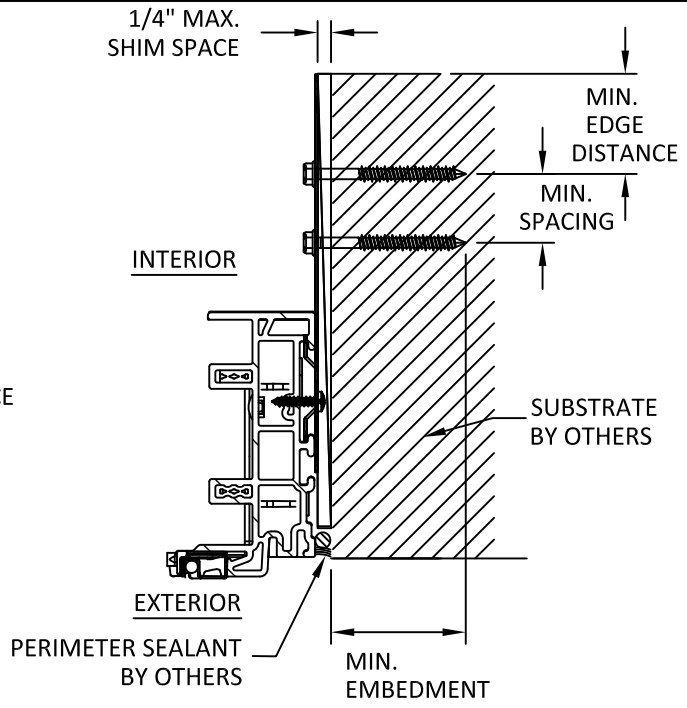
NOTE:
SILL & JAMB DETAIL SIMILAR.

A
8 **VERTICAL SECTION**
THROUGH FRAME (HEAD)



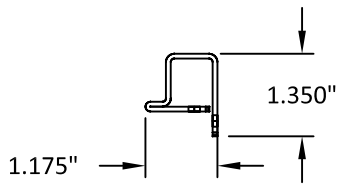
NOTE:
SILL & JAMB DETAIL SIMILAR.

B
8 **VERTICAL SECTION**
NAIL FIN (HEAD)

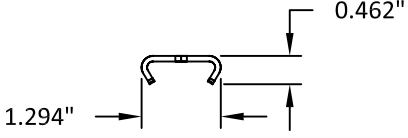


NOTE:
HEAD & SILL DETAIL SIMILAR.

C
8 **HORIZONTAL SECTION**
THROUGH CLIP (JAMB)

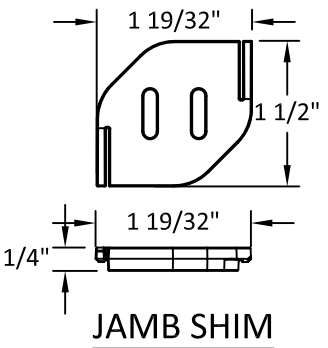


ACTIVE SASH MEETING STILE
REINFORCEMENT DETAIL

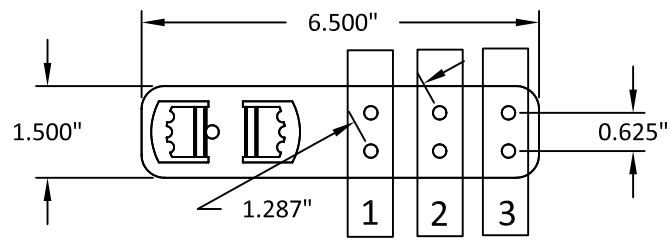


PASSIVE/STATIONARY SASH MEETING
STILE REINFORCEMENT DETAIL

SASH REINFORCEMENT REQUIREMENTS	
SIZE	REINFORCING
UNIT HEIGHT \geq 54"	REQUIRES STEEL REINFORCEMENT IN ACTIVE AND PASSIVE OR STATIONARY SASH MEETING STILES
UNIT HEIGHT < 54"	NOT REQUIRED



JAMB SHIM



INSTALLATION CLIP DETAIL

INSTALLATION CLIP ANCHOR REQUIREMENTS:

WOOD SUBSTRATE: USE TWO #8 PAN HEAD WOOD SCREWS PER CLIP, IN ROW NUMBER ONE OF PREDRILLED HOLES SHOWN BELOW.

METAL SUBSTRATE: USE TWO #8 HWH SMS ANCHORS PER CLIP, IN ROW NUMBER ONE OF PREDRILLED HOLES SHOWN BELOW.

CONCRETE/MASONRY: USE TWO $\frac{3}{16}$ " ITW TAPCON ANCHORS, WITH ONE ANCHOR PLACED IN ROW NUMBER ONE AND ONE ANCHOR PLACED IN ROW NUMBER TWO OF PREDRILLED HOLES SHOWN BELOW. ANCHORS MUST BE PLACED DIAGONALLY ACROSS THE CLIP.

DO NOT INSTALL ANCHORS THROUGH ROW NUMBER THREE.

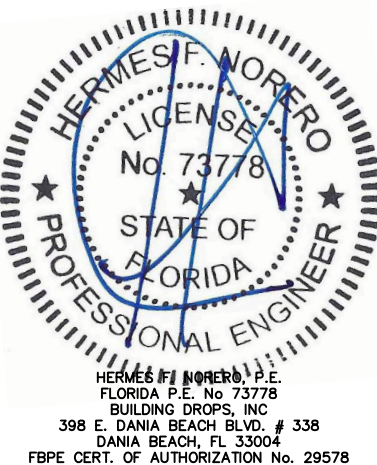


100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: RENEWAL SERIES GLIDING WINDOW (NON-IMPACT) (NON-HVHZ)
ANCHOR DETAILS
PREPARED BY: BUILDING DROPS, INC.
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DANIA BEACH, FL 33004
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HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

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OF 9

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION, UNLESS OTHERWISE SHOWN.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/4 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.
4. 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.
5. 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.
6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
7. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
8. 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.
9. 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
THROUGH FRAME	WOOD: MIN. SG = 0.55	#10 WOOD SCREW FLAT HEAD	1.5"	0.75"
	METAL: 18 GAUGE Steel, MIN. Fy = 33KSI	#10 TEK SCREW FLAT HEAD	3 THREADS MIN PENETRATION BEYOND METAL	0.5"
THROUGH FRAME & THROUGH CLIP	CONCRETE: MIN. f'c=3000PSI	3/16" ITW TAPCON FLATHEAD	1.25"	2.5
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI	3/16" ITW TAPCON FLATHEAD	1"	2.25
NAIL FIN & THROUGH CLIP	WOOD: MIN. SG = 0.55	#8 WOOD SCREW FLAT HEAD	1.5"	0.75"
	METAL: 18 GAUGE Steel, MIN. Fy = 33KSI	#8 TEK SCREW FLAT HEAD	3 THREADS MIN PENETRATION BEYOND METAL	0.5"

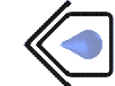


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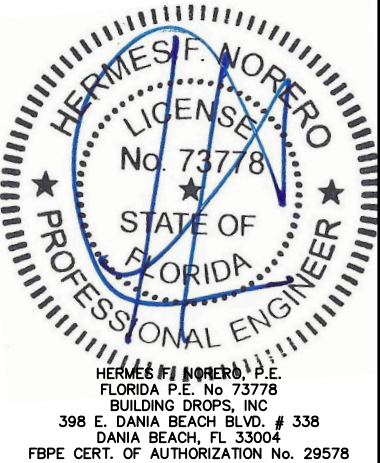
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