

ANDERSEN CORPORATION

RENEWAL BY ANDERSEN FIXED WINDOWS - UNIVERSAL FRAME (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/A440-11
- 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 $\pm 1/4$ 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	DESIGN PRESSURE	FRAME TYPE*
84" X 86"	+50.0 / -50.0 PSF	1 PIECE
108" X 62"	+50.0 / -50.0 PSF	1 PIECE
72" X 98"	+50.0 / -50.0 PSF	2 PIECE

*SEE FRAME DESCRIPTIONS ON SHEET 2 & 5

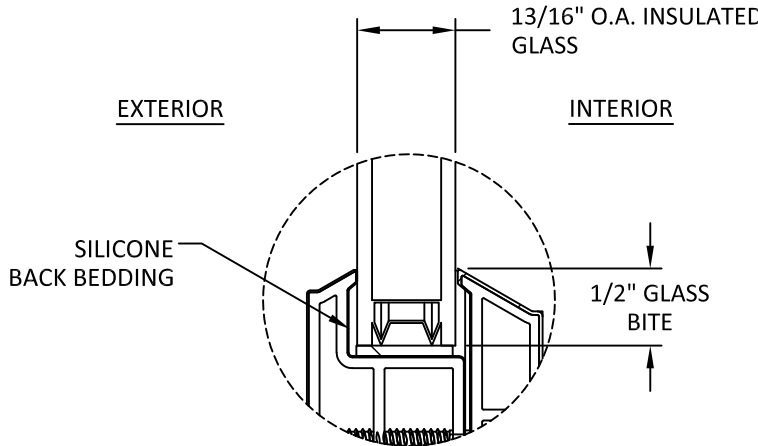
DESIGN PRESSURE UPGRADE RATING		
SIZE	DESIGN PRESSURE	FRAME TYPE*
84" X 86"	+50.0 / -65.0 PSF	1 PIECE
108" X 62"	+50.0 / -65.0 PSF	1 PIECE
98" X 72"	+50.0 / -65.0 PSF	2 PIECE
40" X 40"	+80.0 / -80.0 PSF	1 OR 2 PIECE

*SEE FRAME DESCRIPTIONS ON SHEET 2 & 5

NOTES:

- DP UPGRADE PRODUCT POSITIVE RATING IS DRIVEN BY STRUCTURAL ONLY. WATER IS NOT INCLUDED.
- DP UPGRADE PRODUCT MUST BE INSTALLED THROUGH FRAME ONLY.

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2	ELEVATIONS & ANCHOR LAYOUTS
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5	ANCHOR DETAILS
6	INSTALLATION NOTES, ANCHOR SCHEDULE & QUALIFIED SHAPES



GLAZING DETAIL

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.



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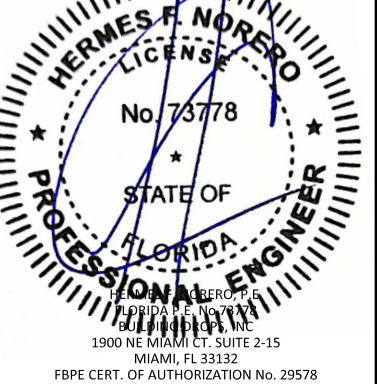
TITLE:
RENEWAL BY ANDERSEN FIXED WINDOWS
- UNIVERSAL FRAME
(NON-HVHZ)(NON-IMPACT)
GENERAL NOTES & GLAZING DETAIL

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BUILDING DROPS, INC.
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REMARKS	BY	DATE
7TH FBC CODE CHANGE	SR	3.24.20
RADIUS UPDATE	MS	10/20/23

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Reason: I am approving this document
Date: 2023.11.07 11:00:44 -05'00'



FL #:
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RV

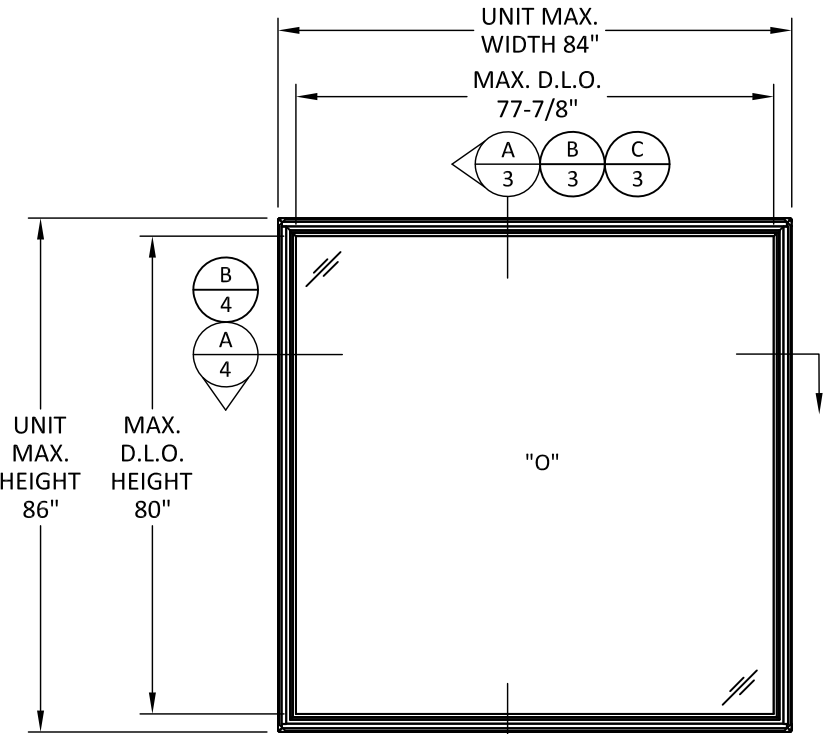
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SCALE:
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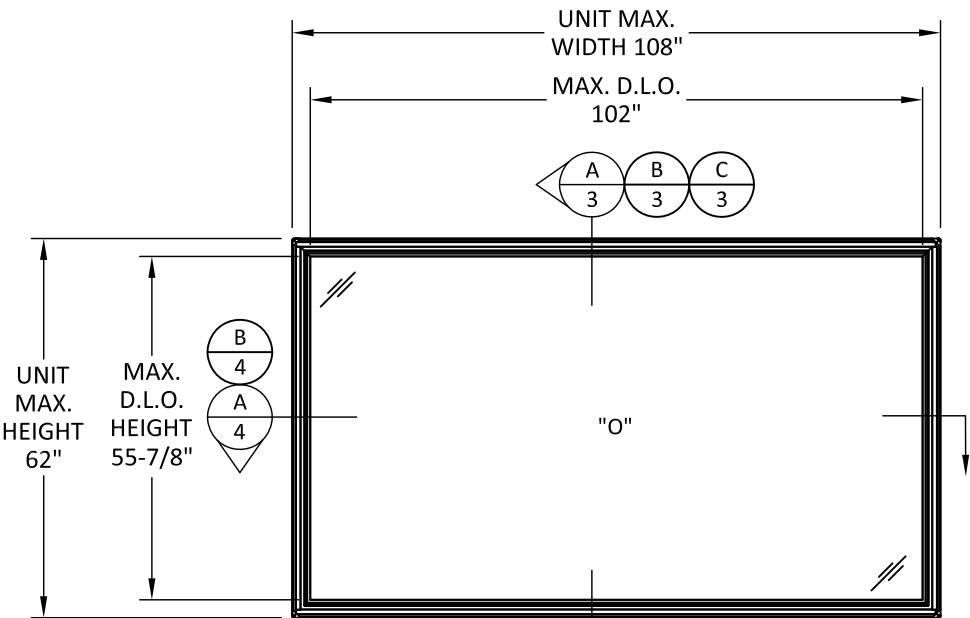
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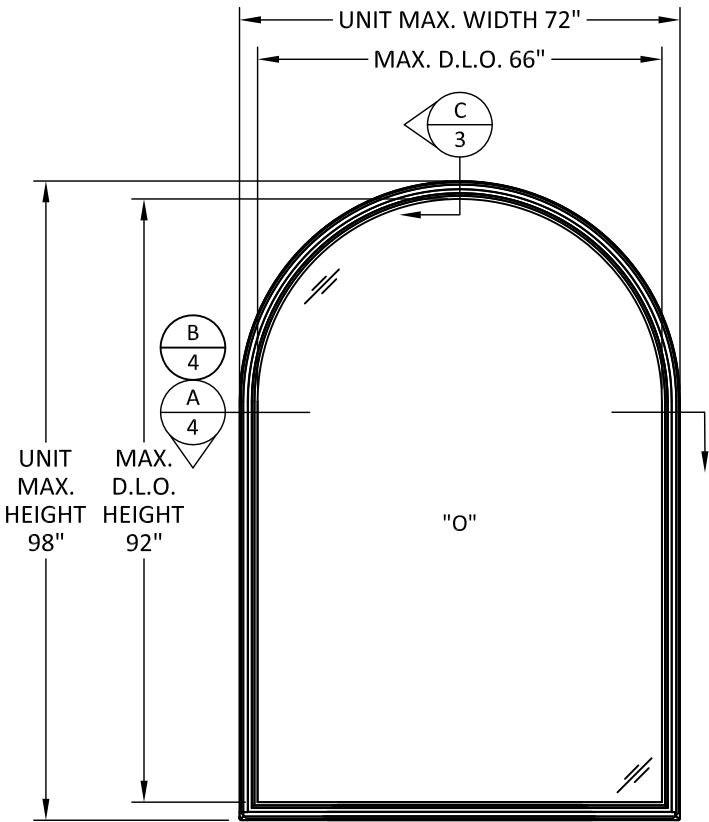
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ELEVATION
1 PIECE FRAME



ELEVATION
1 PIECE FRAME



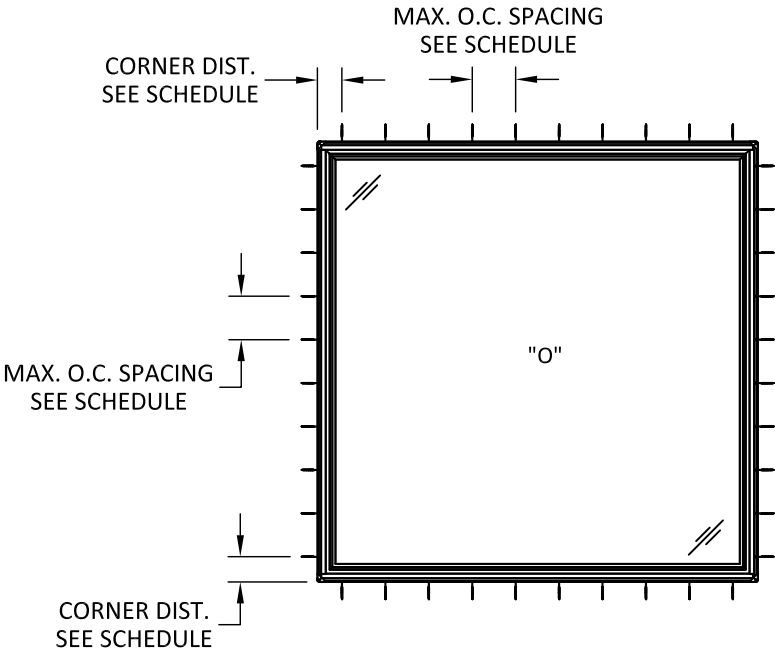
ELEVATION
2 PIECE FRAME

RENEWAL SERIES PICTURE WINDOW - UNIVERSAL FRAME ANCHOR SPACING				
INSTALLATION METHOD	FROM CORNERS (IN)	MAX. O.C. HEAD (IN)	MAX. O.C. SILL (IN)	MAX. O.C. JAMBS .(IN)
INSTALLATION CLIP	6	12	12	12
THROUGH FRAME	6	9.625	9.625	9.625

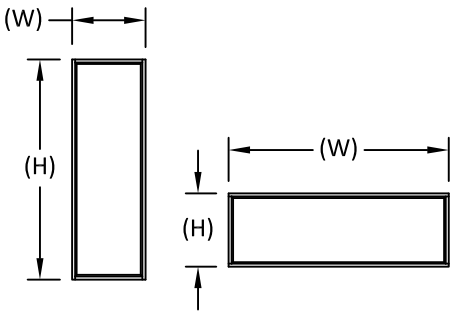
NOTE:
ALL TYPICAL SUBSTRATE SHOWN HEREIN MAY BE USED AT THE HEAD, JAMBS, OR SILL. EDGE DISTANCE AND EMBEDMENT SHALL BE AS SPECIFIED IN TYPICAL DETAILS. SEE TABLE ON SHEET 6 FOR ANCHOR SPECIFICATIONS FOR EACH INSTALLATION METHOD.

RENEWAL SERIES DP UPGRADE PICTURE WINDOW - UNIVERSAL FRAME ANCHOR SPACING				
INSTALLATION METHOD	FROM CORNERS (IN)	MAX. O.C. HEAD (IN)	MAX. O.C. SILL (IN)	MAX. O.C. JAMBS .(IN)
THROUGH FRAME	6	8.5	8.5	8.5

NOTE:
DP UPGRADE PRODUCTS WHEN ANCHORING WITH $\frac{3}{16}$ ITW TAPCON FASTENERS THE JAMB SHIM MUST BE USED BETWEEN THE FRAME AND THE 1/4 INCH SHIM STACK, SEE SHEET 5.



ANCHOR LAYOUT



NOTE:
WINDOW WIDTH (W) AND HEIGHT (H) ARE INTERCHANGEABLE FOR ALL SIZES SHOWN HEREIN NOT TO EXCEED MAXIMUM TESTED SQUARE FOOT AREA. ANCHOR SPACING SHALL NOT EXCEED THOSE SHOWN FOR LONG OR SHORT LEG OF UNIT.



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ELEVATIONS &
ANCHOR LAYOUTS

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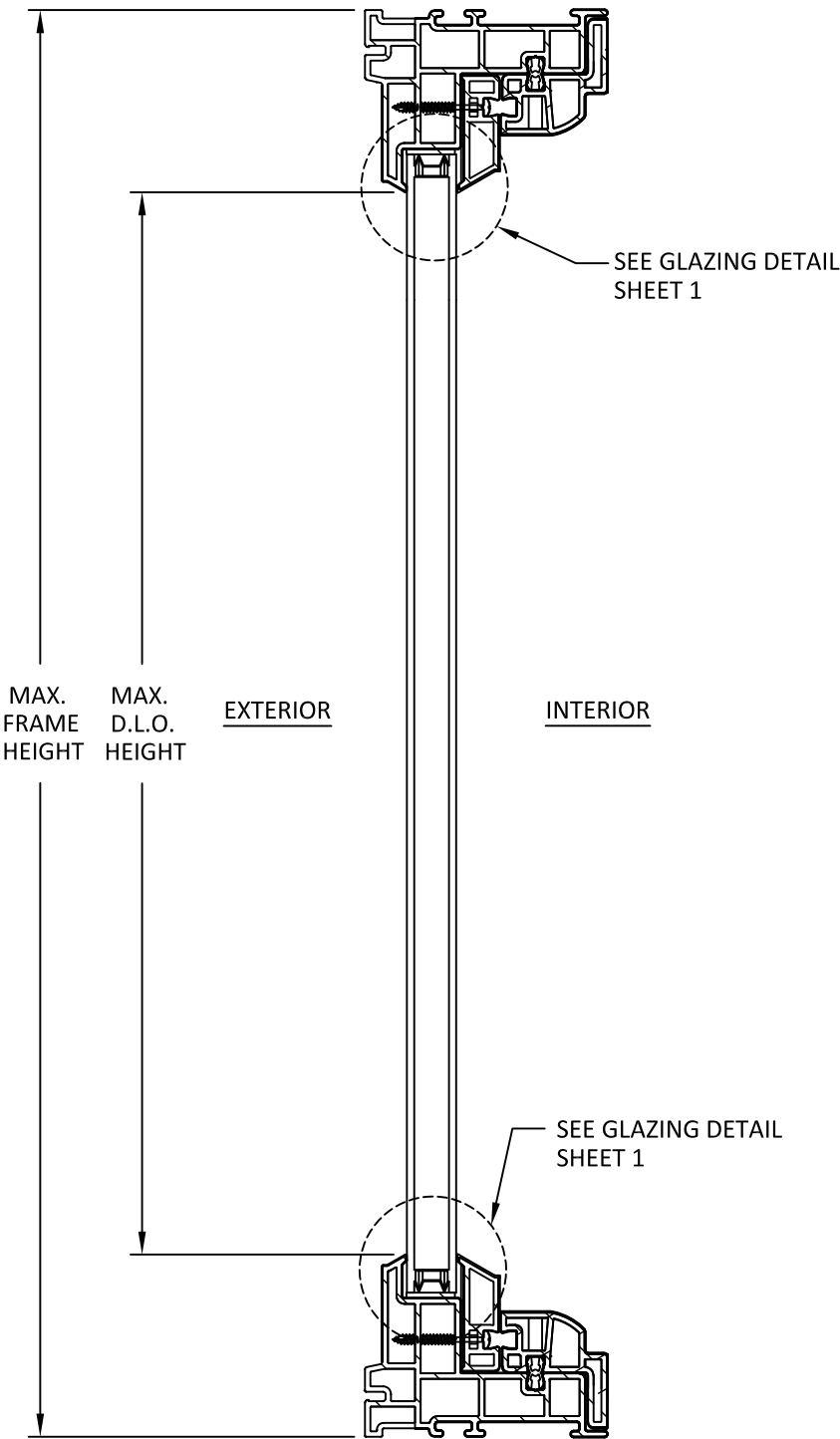
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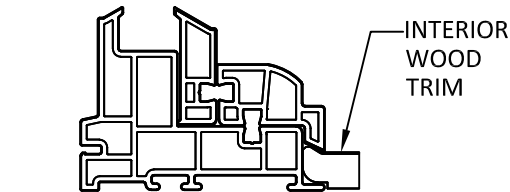
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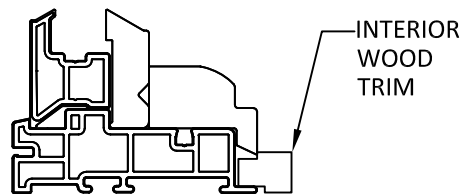
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A
3 **VERTICAL SECTION**
THROUGH FRAME AND THROUGH CLIP INSTALLATION



ALTERNATE EJ FRAME - 1 PIECE
MAY BE USED AS EQUAL ALTERNATE

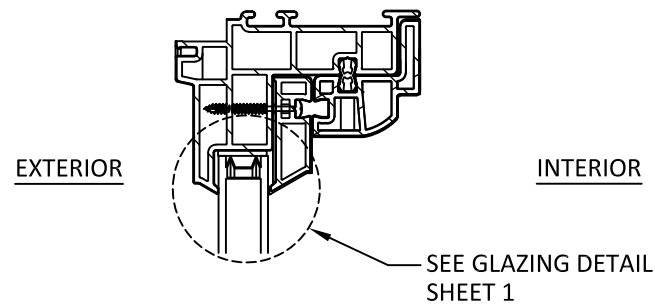


ALTERNATE EJ FRAME - 2 PIECE
MAY BE USED AS EQUAL ALTERNATE

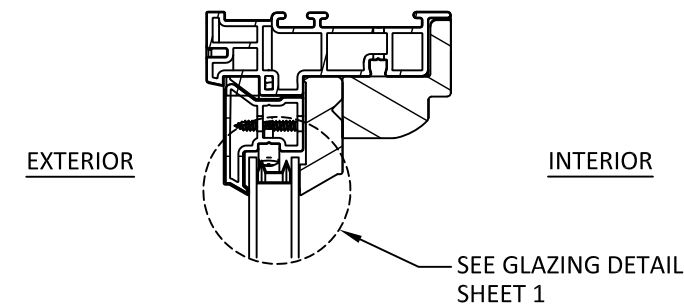
ALTERNATE EJ FRAME
MAY BE USED AS EQUAL ALTERNATE FRAME TYPE

TWO PIECE FRAME NOTES:

- TWO PIECE FRAME IS TO BE USED FOR CURVED MEMBERS ON SHAPED UNITS.
- ALL TYPICAL HEAD, SILL AND JAMB INSTALLATION DETAILS SHOWN HEREIN WITH 1 PIECE FRAME MAY USE 2 PIECE FRAME WITH THE SAME INSTALLATION AND ANCHOR SPECIFICATIONS.
- SEE DESIGN PRESSURE TABLE ON SHEET 1 FOR MAXIMUM SIZE AND PRESSURE WHEN USING 2 PIECE FRAME.
- LESS THAN OR EQUAL TO 36" RADIUSSES SHALL USE 2 PIECE FRAMES, LARGER BENDING RADIUSSES MAY USE 1 PIECE FRAME.



B
3 **VERTICAL SECTION**
TYPICAL 1 PIECE FRAME DETAIL
USED FOR RECTANGULAR PICTURE WINDOWS



C
3 **VERTICAL SECTION**
TYPICAL 2 PIECE FRAME DETAIL
USED FOR SPECIALTY SHAPED WINDOWS



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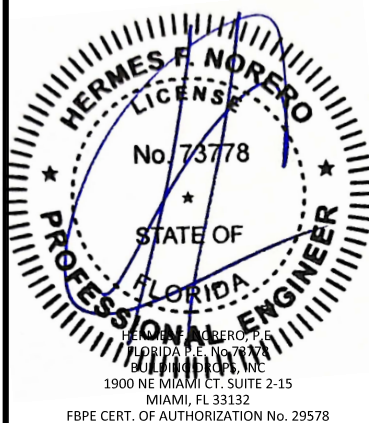
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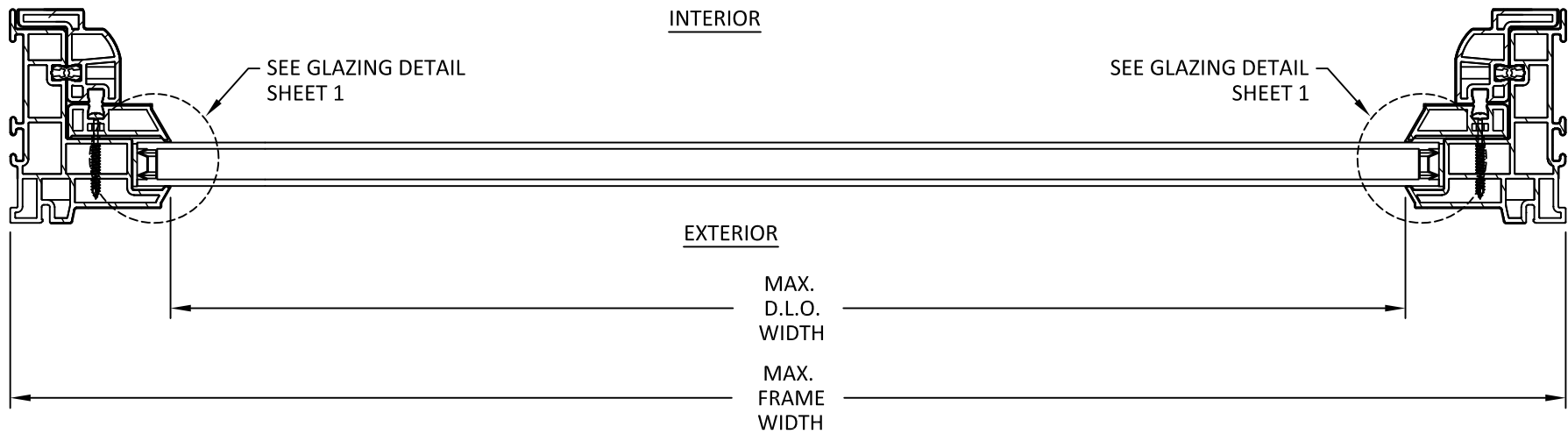


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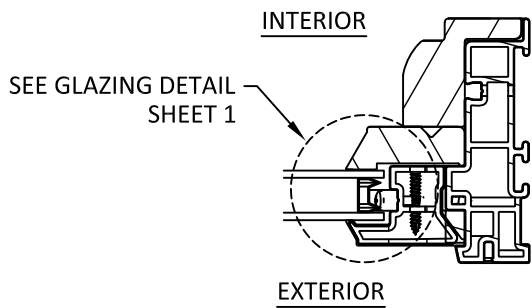
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A
4 **VERTICAL SECTION**
THROUGH FRAME AND THROUGH CLIP INSTALLATION



B
4 **HORIZONTAL SECTION**
TYPICAL 2 PIECE FRAME DETAIL
USED FOR SPECIALTY SHAPED WINDOWS



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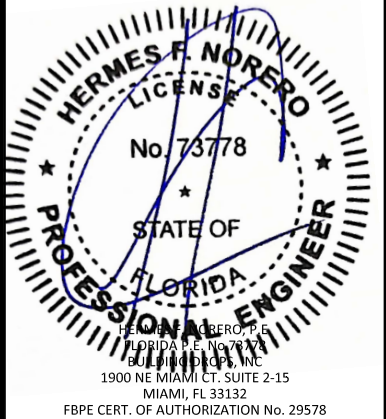
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HORIZONTAL SECTIONS

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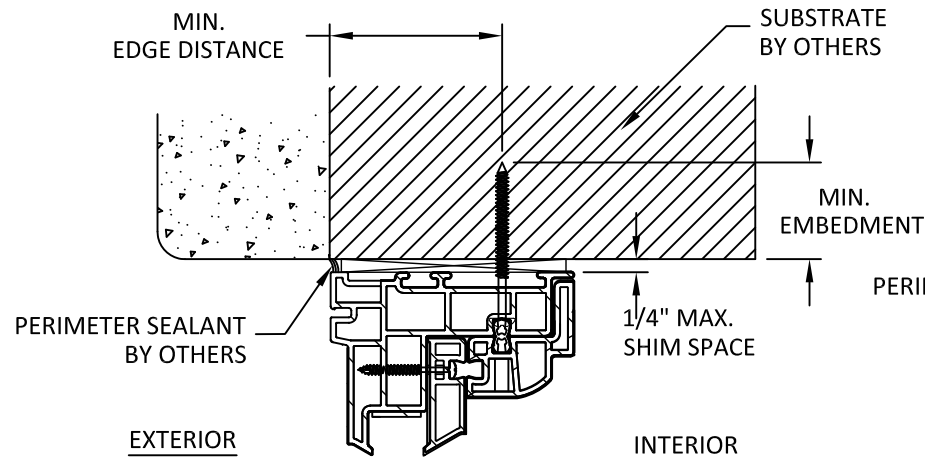
SCALE: **NTS**

DWG. #: **AWD244**

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OF 6

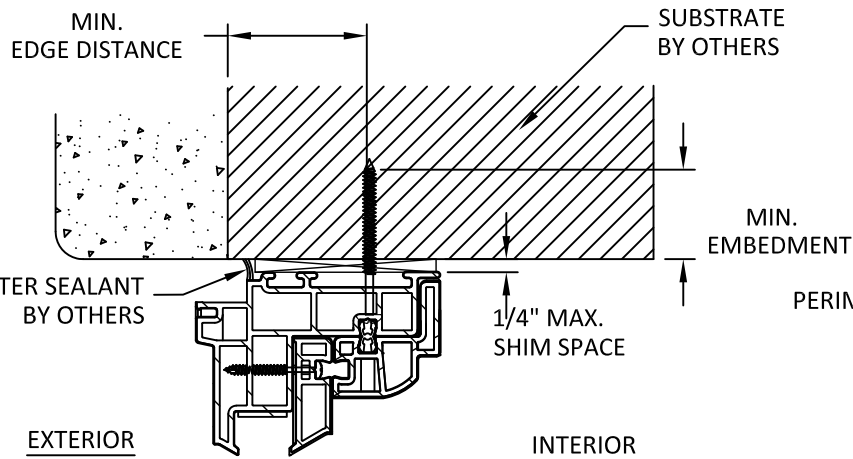
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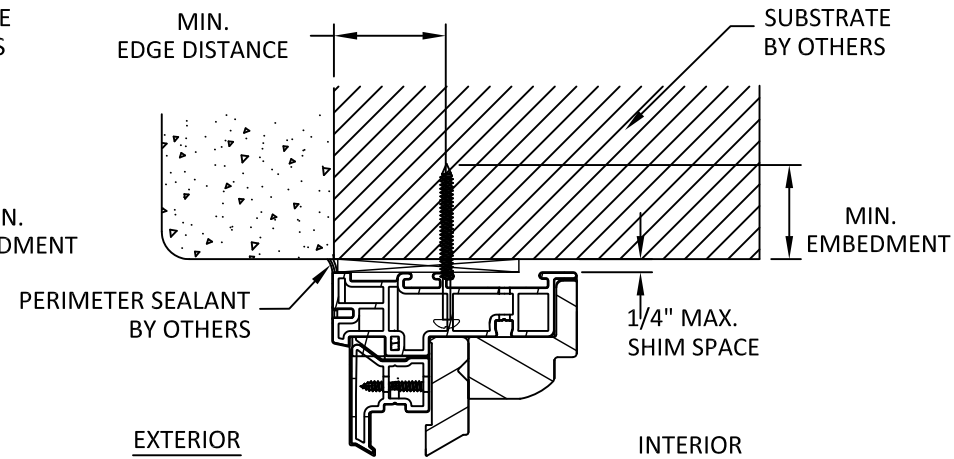
NOTE:
SILL & JAMB DETAIL SIMILAR.

A5 VERTICAL SECTION
THROUGH FRAME (HEAD)



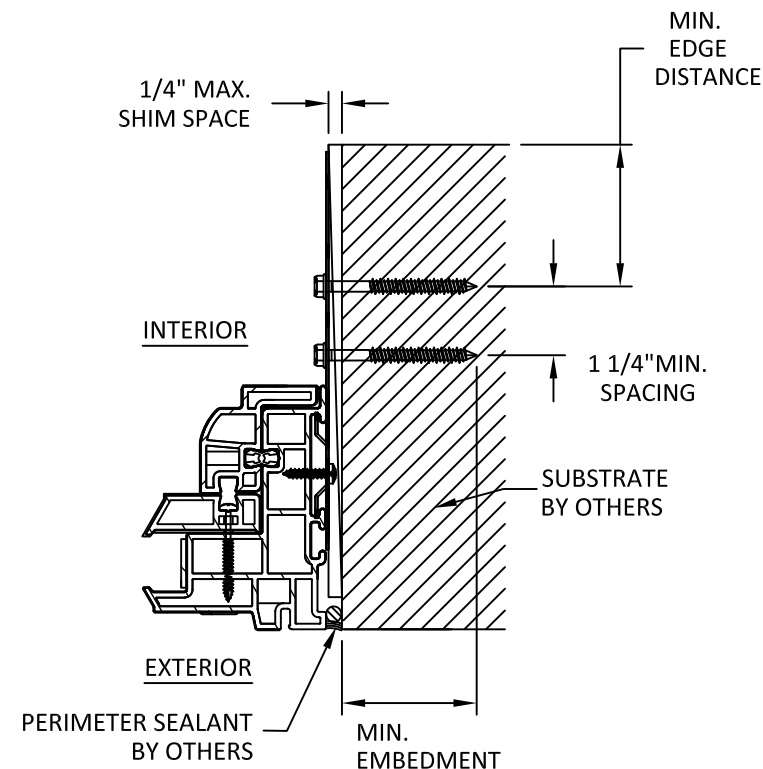
NOTE:
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B5 VERTICAL SECTION
THROUGH FRAME (HEAD)



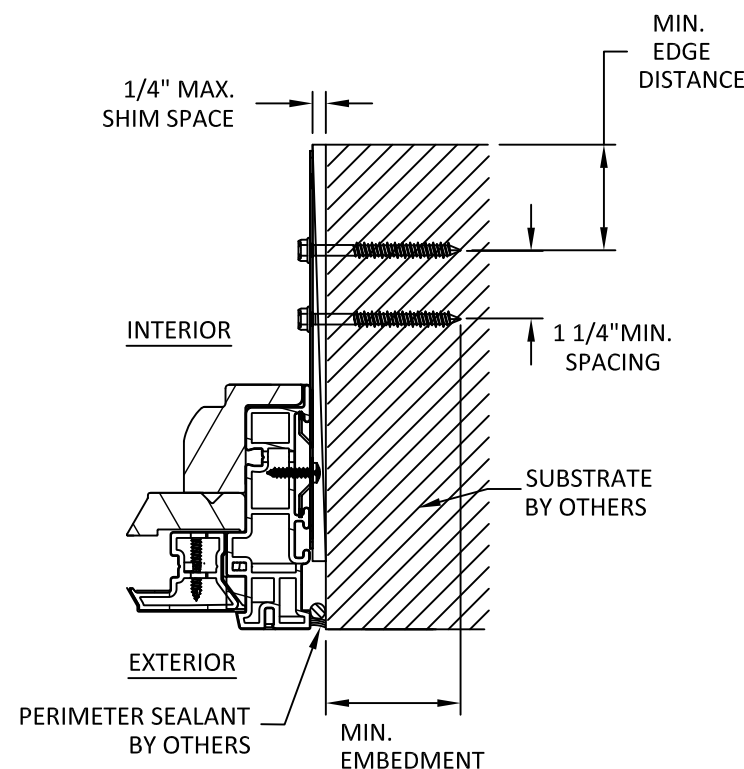
NOTE:
SILL & JAMB DETAIL SIMILAR.

C5 VERTICAL SECTION
THROUGH FRAME (HEAD)



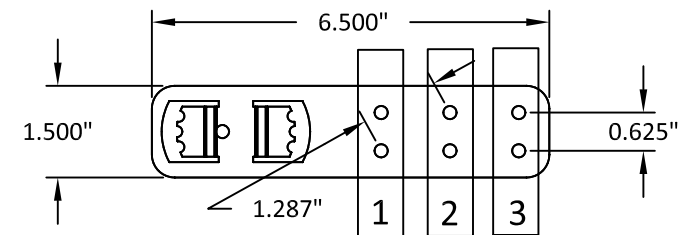
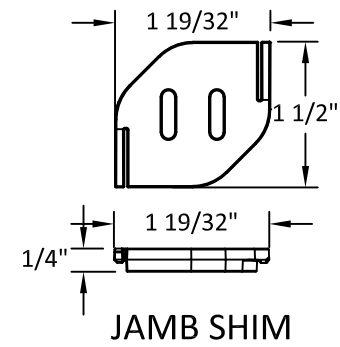
NOTE:
HEAD & SILL DETAIL SIMILAR.

D5 HORIZONTAL SECTION
THROUGH CLIP (JAMB)



NOTE:
HEAD & SILL DETAIL SIMILAR.

E5 HORIZONTAL SECTION
THROUGH CLIP (JAMB)



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 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.



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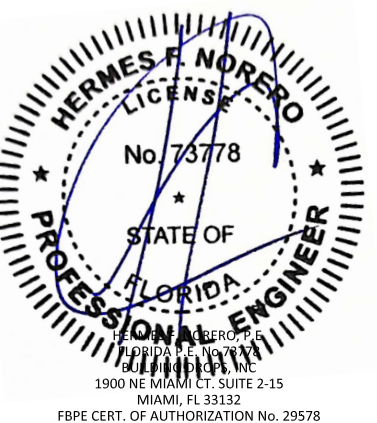
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SHEET:	5

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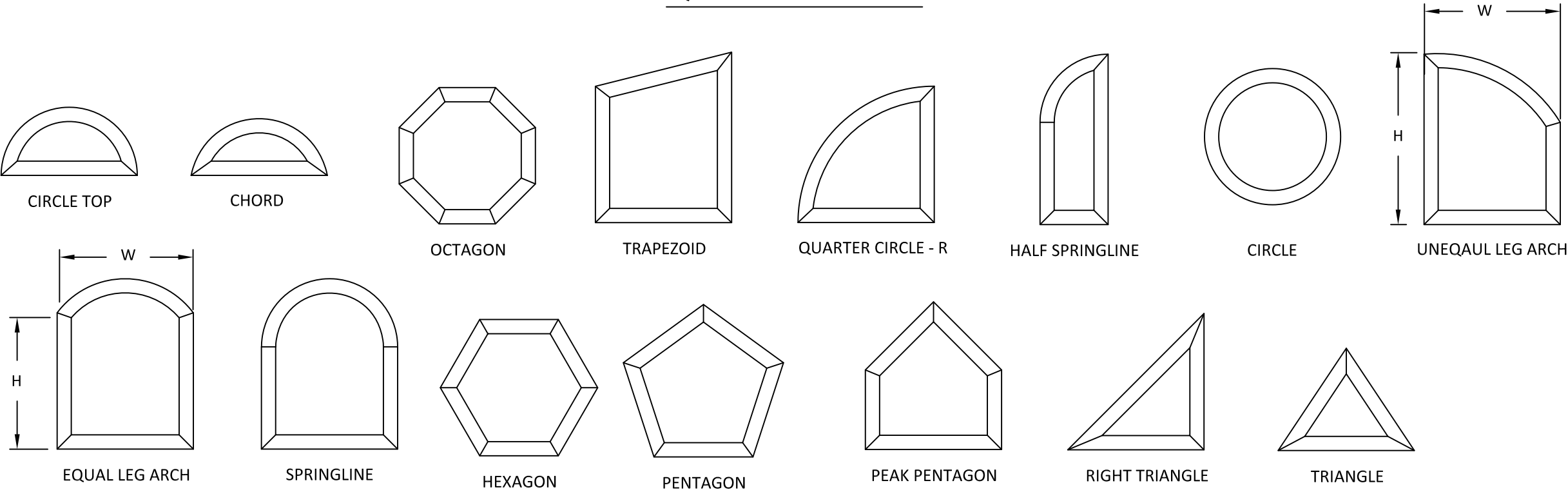
INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION, UNLESS OTHERWISE SHOWN ON SHEET 5.
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"

QUALIFIED SHAPES MUST BE INSCRIBED WITHIN TESTED SIZE.

QUALIFIED SHAPES



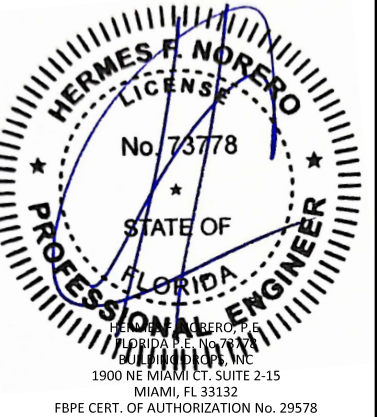
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- UNIVERSAL FRAME
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INSTALLATION NOTES, ANCHOR SCHEDULE
& QUALIFIED SHAPES

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6
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