

# ANDERSEN CORPORATION

## 400 SERIES SPECIALTY WINDOW - FLEXIFRAME, ARCH FLEXIFRAME AND SPRINGLINE (IMPACT)



**ANDERSEN**  
WINDOWS & DOORS  
100 FOURTH AVE NORTH  
BAYPORT, MN 55003-1096  
PH: (651) 264-5150 FX: (651) 264-5485

**INSTALLATION NOTES:**

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. 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.
4. **INSTALLATION CLIP:** FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE ONE (1) 3/16 INCH ITW TAPCON PER INSTALLATION CLIP OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
5. **INSTALLATION CLIP:** FOR INSTALLATION INTO 2X BUCK USE TWO (2) #8 OR ONE (1) #12 WOOD SCREWS PER INSTALLATION CLIP OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
6. **INSTALLATION CLIP:** FOR INSTALLATION THROUGH METAL STRUCTURE USE TWO (2) #8 SELF-TAPPING SCREWS PER INSTALLATION CLIP OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION BEYOND METAL STRUCTURE FRAME SUBSTRATE.
7. **FASTENER THROUGH FRAME:** FOR INSTALLATION OF SPRINGLINE UNITS ONLY, INTO 2X BUCK USE ONE (1) #10 WOOD SCREW OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
8. **FASTENER THROUGH FRAME:** FOR INSTALLATION OF SPRINGLINE UNITS ONLY, THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE ONE (1) 3/16 INCH ITW TAPCON OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
9. **FASTENER THROUGH FRAME:** FOR INSTALLATION OF SPRINGLINE UNITS ONLY, THROUGH METAL STRUCTURE USE ONE (1) #10 SELF-TAPPING SCREWS PER INSTALLATION CLIP OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION BEYOND METAL STRUCTURE.
10. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
11. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
12. 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.
13. 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.
14. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
  - A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42.
  - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
  - C. GROUT- FILLED CMU- UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.
  - D. HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
  - E. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 18 GAUGE.
  - F. ALUMINUM - ALUMINUM - 1/8" MINIMUM THICKNESS (6063-T5).

**GENERAL NOTES:**

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2018 INTERNATIONAL BUILDING CODE (IBC) AND 2018 INTERNATIONAL RESIDENTIAL CODE (IRC), AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
  - AAMA/WDMA/CSA 101/ I.S.2/A440-17
  - ASTM E1886-13a
  - ASTM E1996-14a
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL STUD 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** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. WINDOW FRAME MATERIAL: PONDEROSA PINE OR EQUIVALENT (MIN. S.G. = 0.40)
7. GLASS MEETS THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 7 FOR GLAZING DETAILS.
8. **DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:**  
X: OPERABLE PANEL  
O: FIXED PANEL

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL & INSTALLATION NOTES
2	ELEVATIONS & ANCHOR LAYOUTS
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4	QUALIFIED SHAPES & ANCHOR SCHEDULE
5	VERTICAL SECTIONS
6	HORIZONTAL SECTIONS
7	BOM, COMPONENTS, CONST. NOTES, GLAZING DETAILS

DESIGN PRESSURE RATING			
PRODUCT SIZE	GLASS TYPE	DESIGN PRESSURE	MISSILE IMPACT RATING
60" X 120"	1 OR 2	+70.0 / -70.0 PSF *	LARGE & SMALL MISSILE IMPACT RATED
72" X 84"	1 OR 2	+70.0 / -70.0 PSF *	

ADDITIONAL SIZES DESIGN PRESSURE RATING			
PRODUCT SIZE	GLASS TYPE	DESIGN PRESSURE	MISSILE IMPACT RATING
48" X 144"	1 OR 2	+70.0 / -70.0PSF *	LARGE & SMALL MISSILE IMPACT RATED
54" X 132"	1 OR 2	+70.0 / -70.0PSF *	
66" X 108"	1 OR 2	+63.6 / -63.6 PSF *	
96" X 72.125" (SPRINGLINE)	1 OR 2	+70 / -70 PSF *	

\* NOTE: SEE SHEET 7 FOR GLAZING REQUIREMENTS BASED ON SIZE

TITLE: 400 SERIES SPECIALTY WINDOW - FLEXIFRAME, ARCH FLEXIFRAME AND SPRINGLINE (IMPACT)  
GENERAL & INSTALLATION NOTES

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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HERMES F. NORERO, P.E.  
TEXAS P.E. No 118471  
BUILDING DROPS, INC  
398 E. DANIA BEACH BLVD. # 338  
DANIA BEACH, FL 33004  
TBPE FIRM No. 13734

DATE: <b>10.12.21</b>	
DWG. BY: <b>MS</b>	CHK. BY: <b>HFN</b>
SCALE: <b>NTS</b>	
DWG. #: <b>AWD294</b>	

SHEET: 1 OF 7



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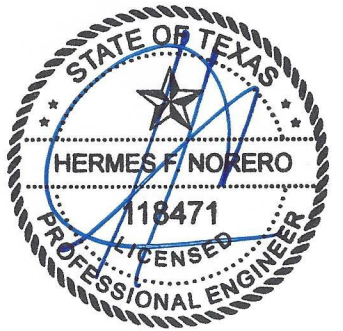
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ELEVATIONS & ANCHOR LAYOUTS

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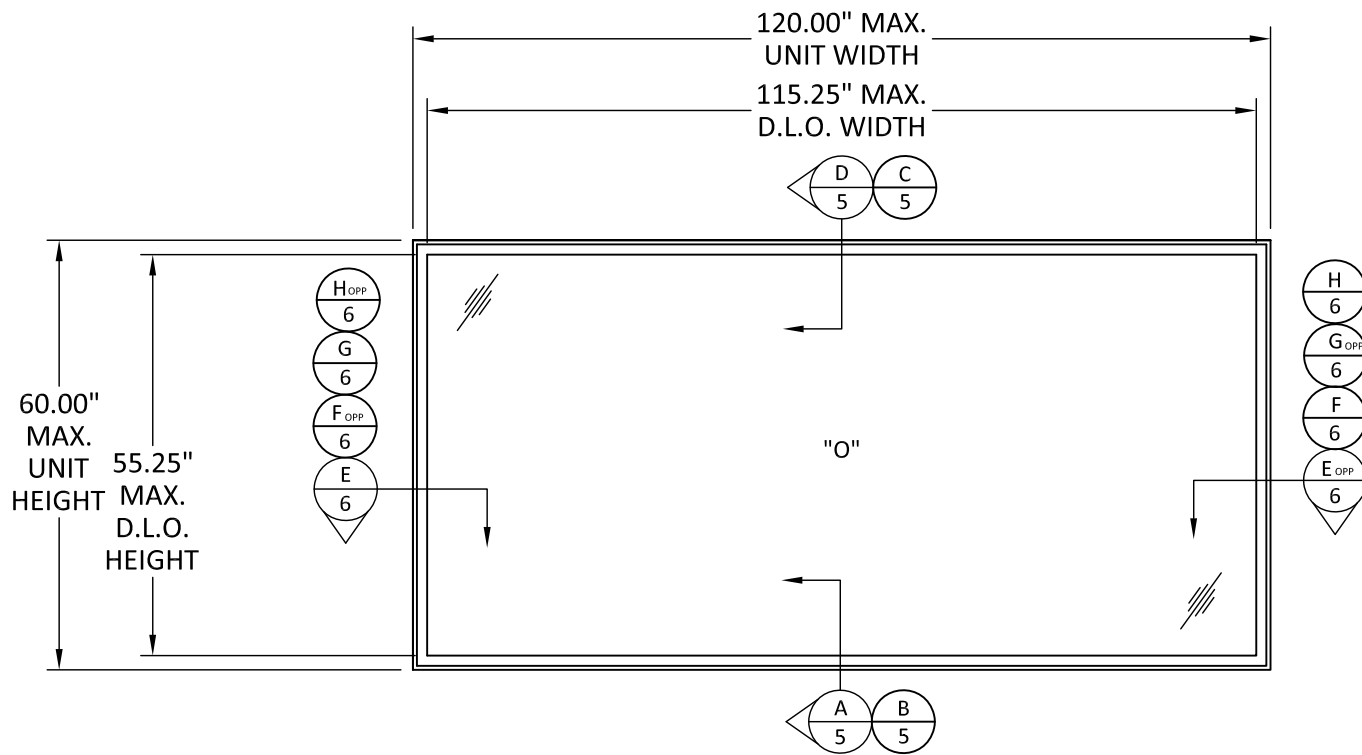
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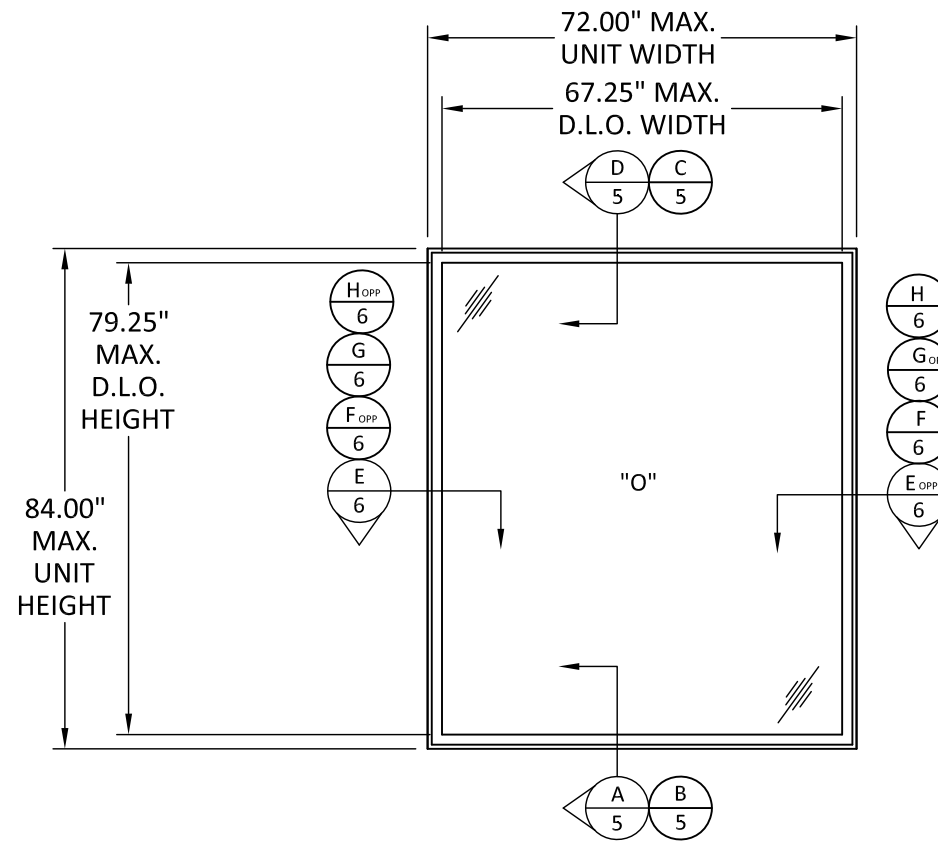
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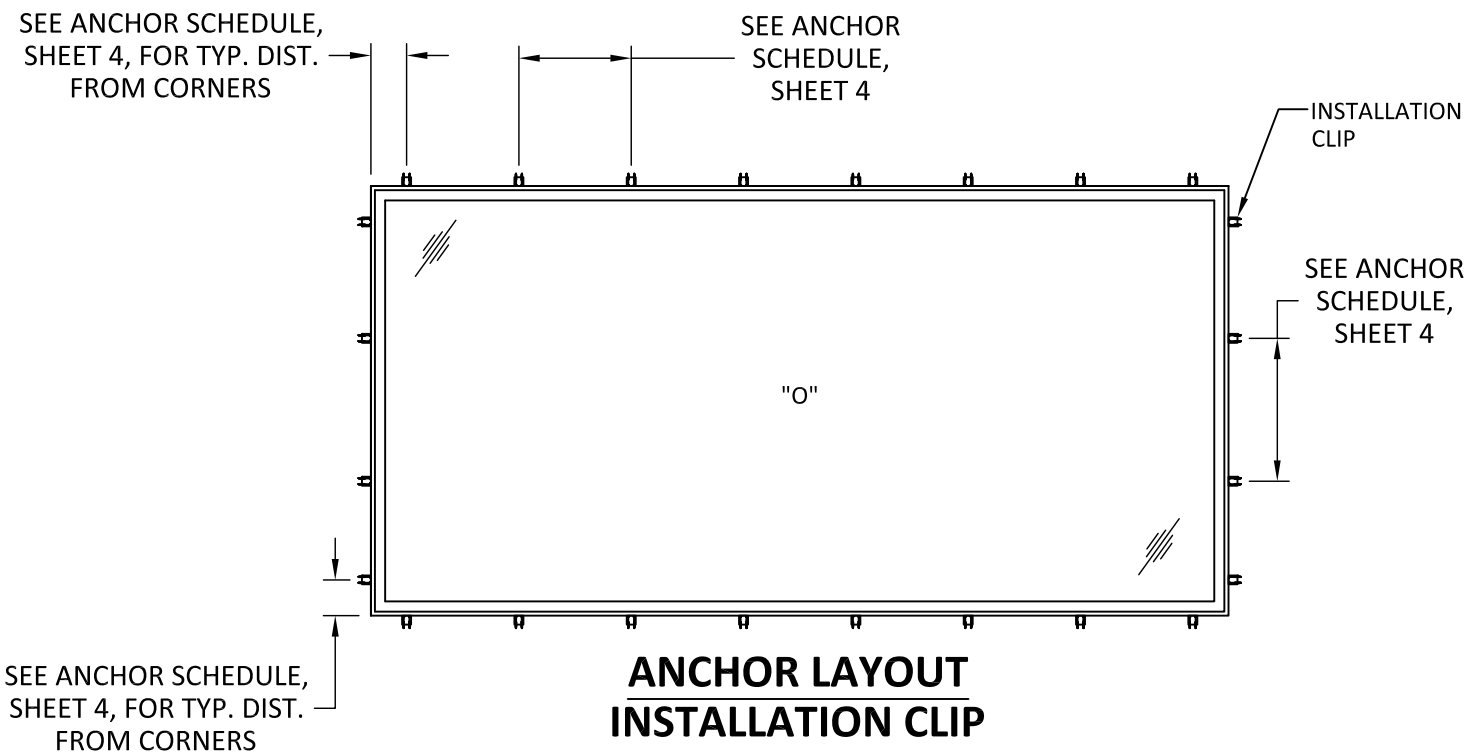
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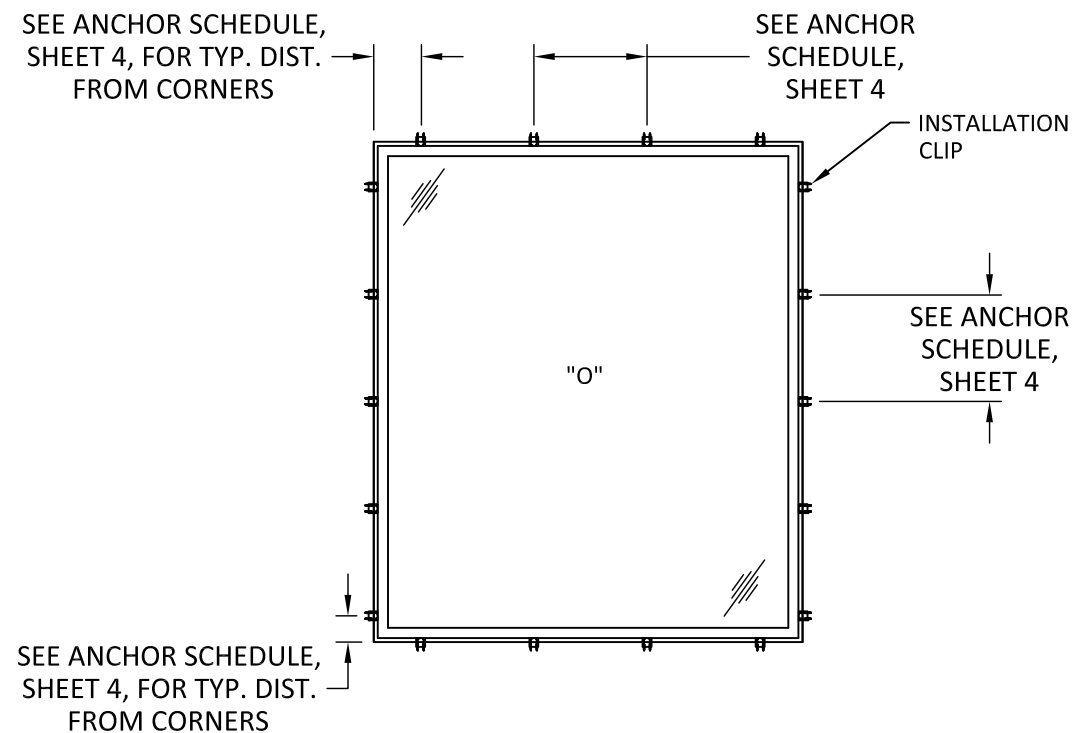
**ELEVATION**



**ELEVATION**



**ANCHOR LAYOUT  
INSTALLATION CLIP**



**ANCHOR LAYOUT  
INSTALLATION CLIP**



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ELEVATION & ANCHOR LAYOUT

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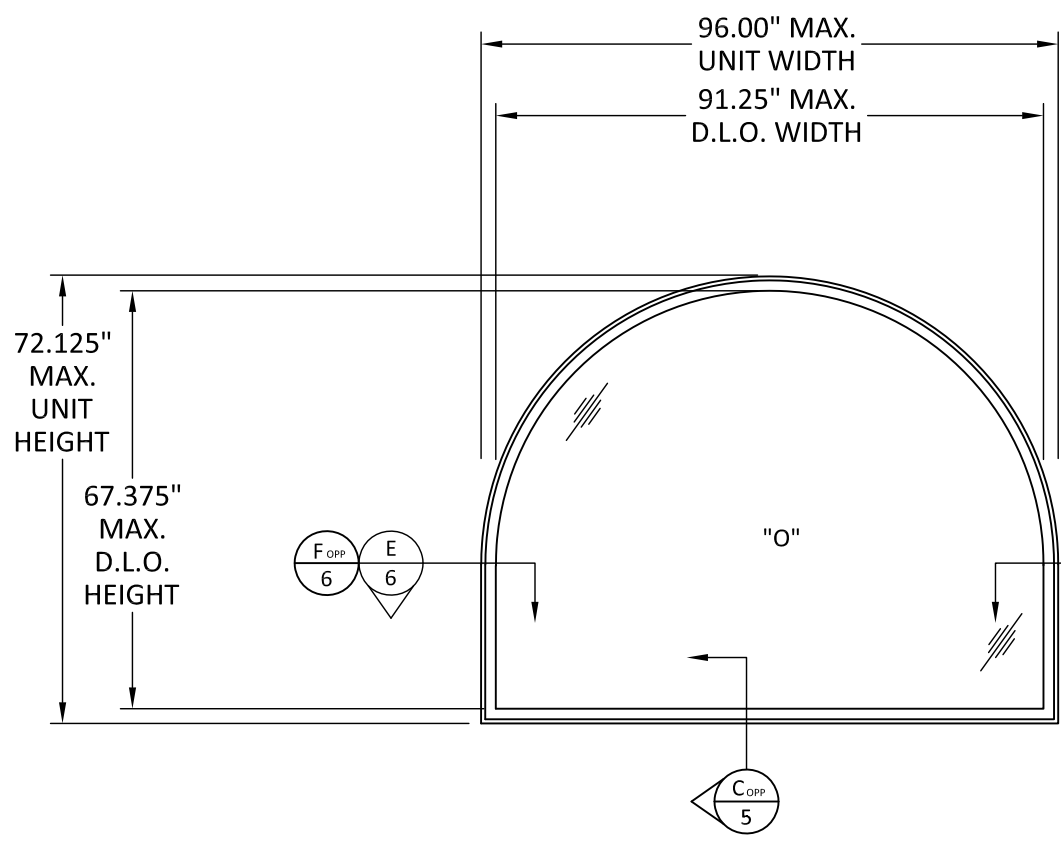
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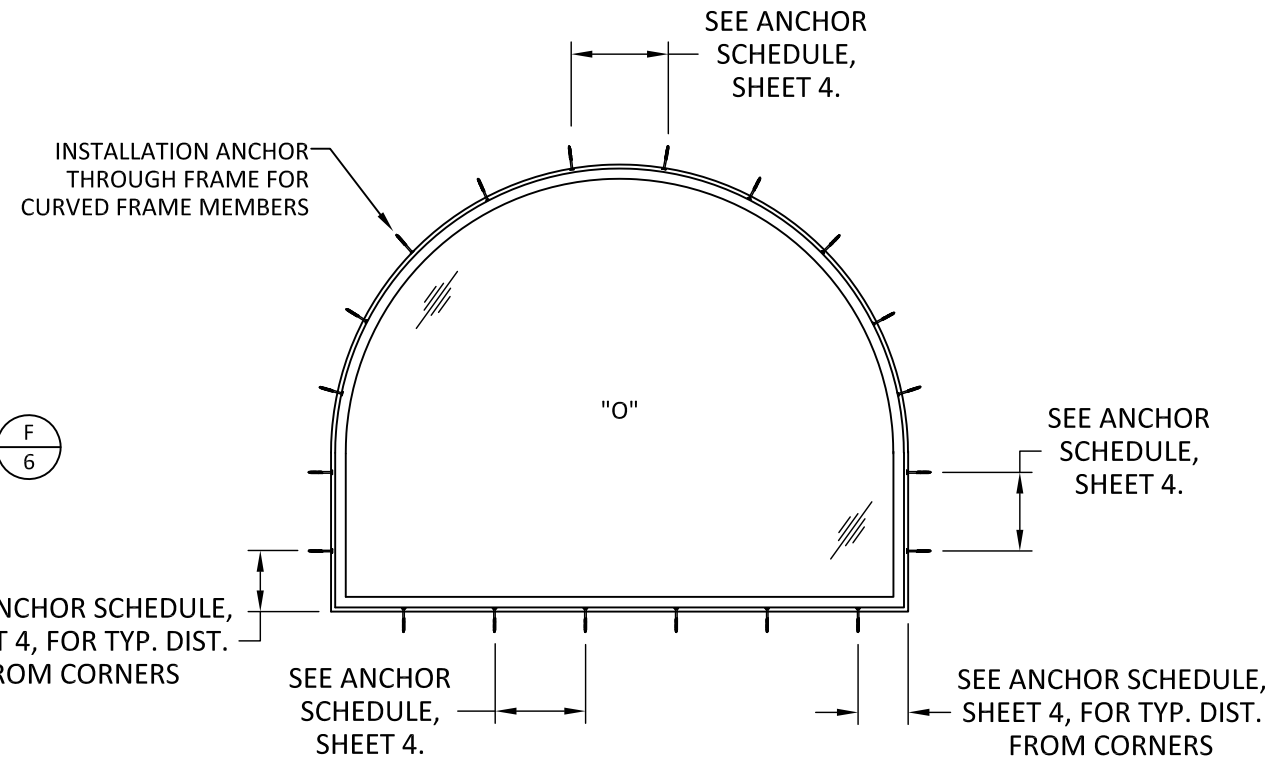
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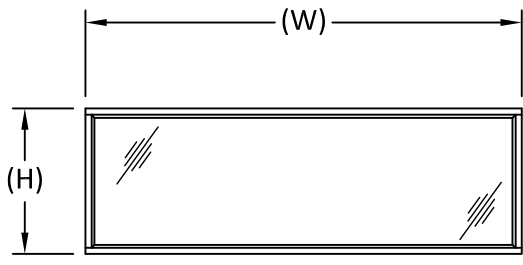
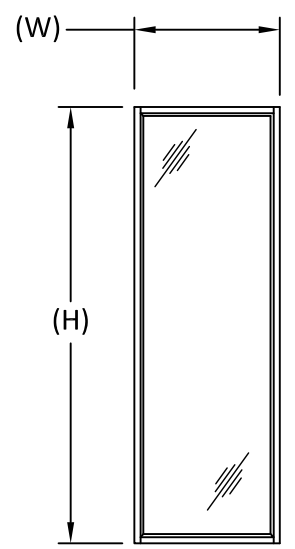
OF 7



**ELEVATION**



**ANCHOR LAYOUT  
FASTENER THROUGH FRAME**



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.

s:\projects\andersen windows\tl-21-0940-400-series-specialty-windows-flexiframes-and-springline-fiberglass-clad-wood-direct-set-windows\dwg\awd294.dwg 10/27/2021 10:59 AM



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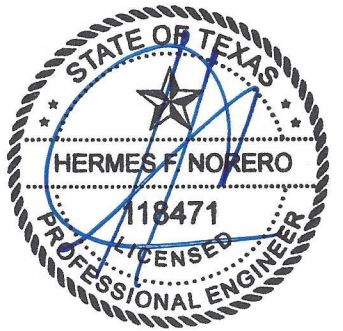
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QUALIFIED SHAPES & ANCHOR SCHEDULE

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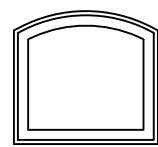
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DWG. BY:	MS	CHK. BY: HFN
SCALE:	NTS	
DWG. #:	AWD294	
SHEET:	4	

**+70 / -70 PSF**  
**FASTENER THROUGH FRAME OR INSTALLATION CLIP**  
**ANCHOR SCHEDULE**

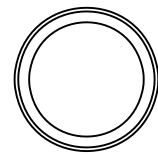
QTY.	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT (in.)	MAX. O.C. SPACING		DIST. FROM CORNER
				LONG LEG	SHORT LEG	
2 PER CLIP	WOOD	#8 WOOD ANCHOR	1.50"	20"	20"	6"
1 PER CLIP	WOOD	#12 WOOD ANCHOR	1.50"	20"	20"	6"
1 PER CLIP	CONCRETE / MASONRY	3/16" ITW TAPCON	1.25"	12"	15"	6"
2 PER CLIP	METAL STRUCTURE	#8 SELF-TAPPING SCREW	3 THREADS	20"	20"	6"
1 (THROUGH FRAME)	WOOD	#10 WOOD ANCHOR	1.50"	12"	15"	12"
1 (THROUGH FRAME)	CONCRETE / MASONRY	3/16" ITW TAPCON	1.25"	10.5"	12"	12"
1 (THROUGH FRAME)	METAL STRUCTURE	#10 SELF-TAPPING SCREW	3 THREADS	13.75"	15"	12"

NOTES:

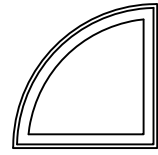
- OVERALL WIDTH AND HEIGHT DIMENSIONS OF SHAPES SHOWN BELOW SHALL BE WITHIN AND CIRCUMSCRIBED BY MAX. OVERALL DIMENSIONS SHOWN ON SHEETS 2 & 3.
- CURVED OR ANGLED SIDES SHALL UTILIZE THE LESSER MAX. O.C. ANCHOR SPACING BETWEEN LONG AND SHORT LEGS SPACING AS SPECIFIED IN THE ANCHOR SCHEDULE TABLE AT LEFT



ARCH



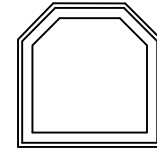
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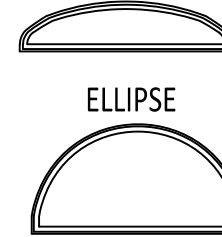
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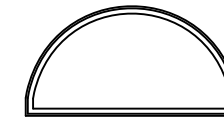
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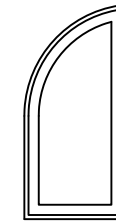
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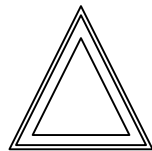
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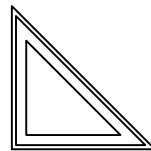
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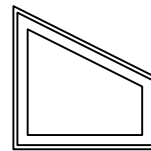
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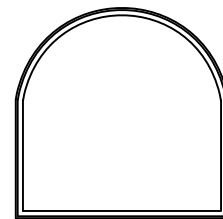
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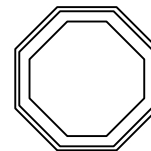
RIGHT TRIANGLE



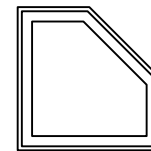
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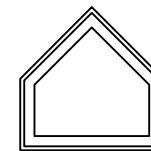
SPRINGLINE



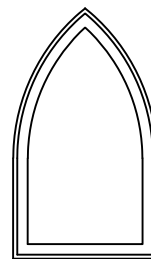
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ANGLED PENTAGON



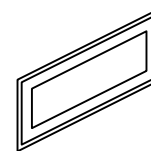
PEAKED PENTAGON



GOTHIC



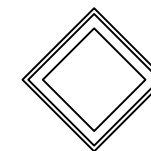
CHORD



VERTICAL PARALLELOGRAM



HORIZONTAL PARALLELOGRAM



DIAMOND



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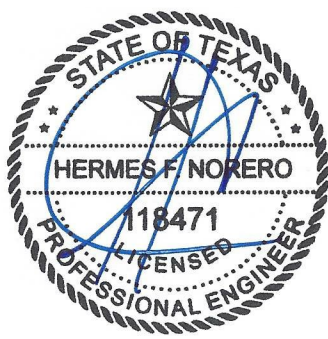
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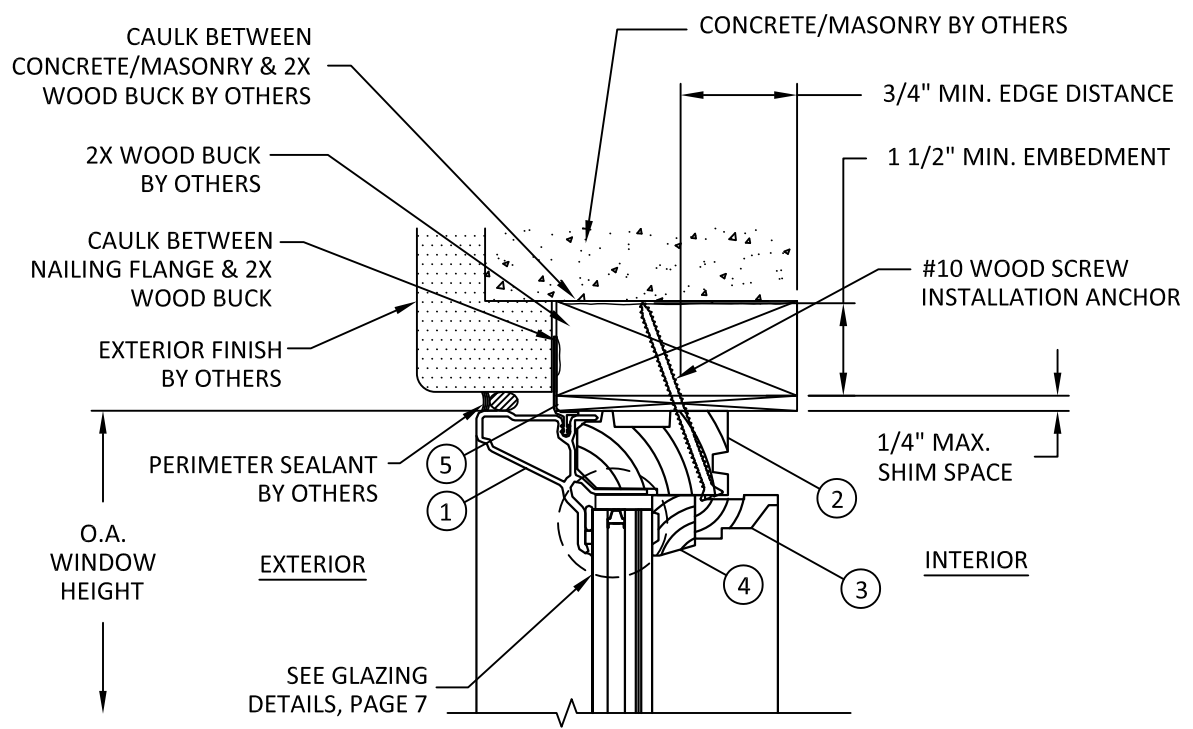
REMARKS	BY	DATE

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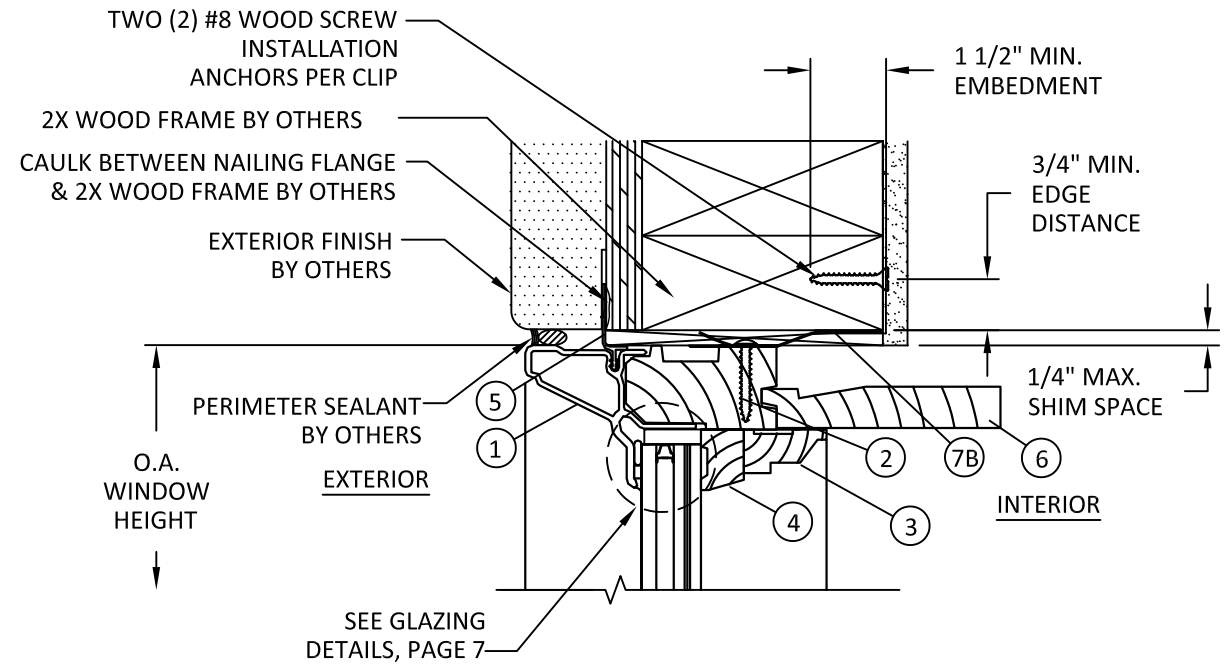


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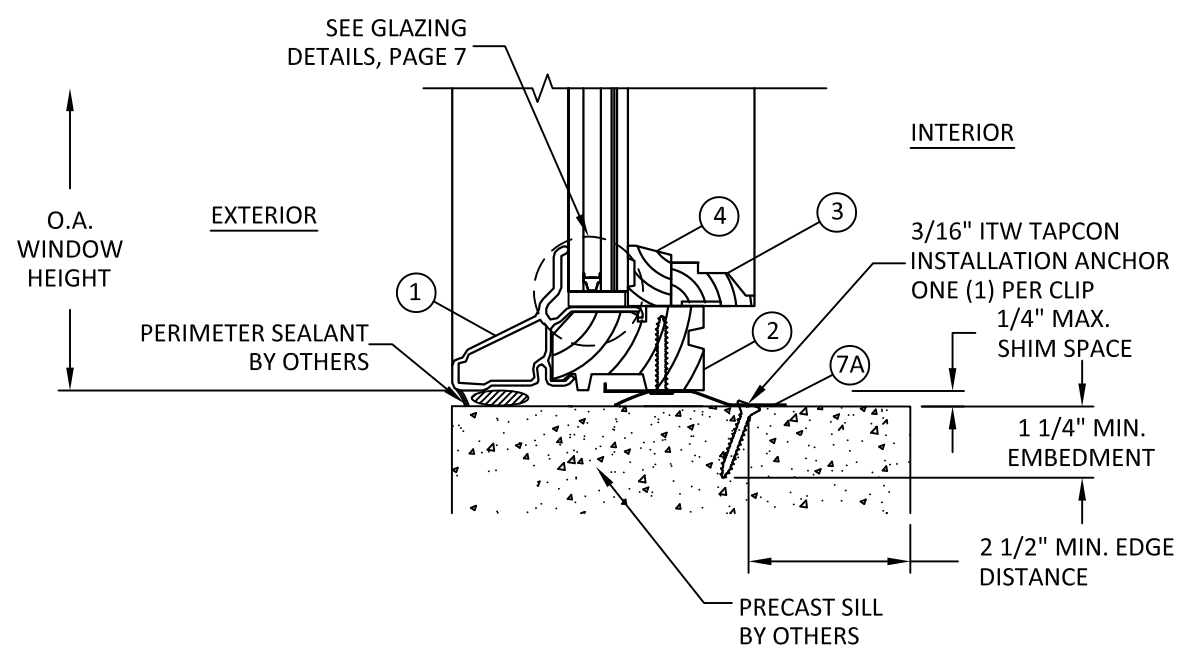
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SHEET:	5	



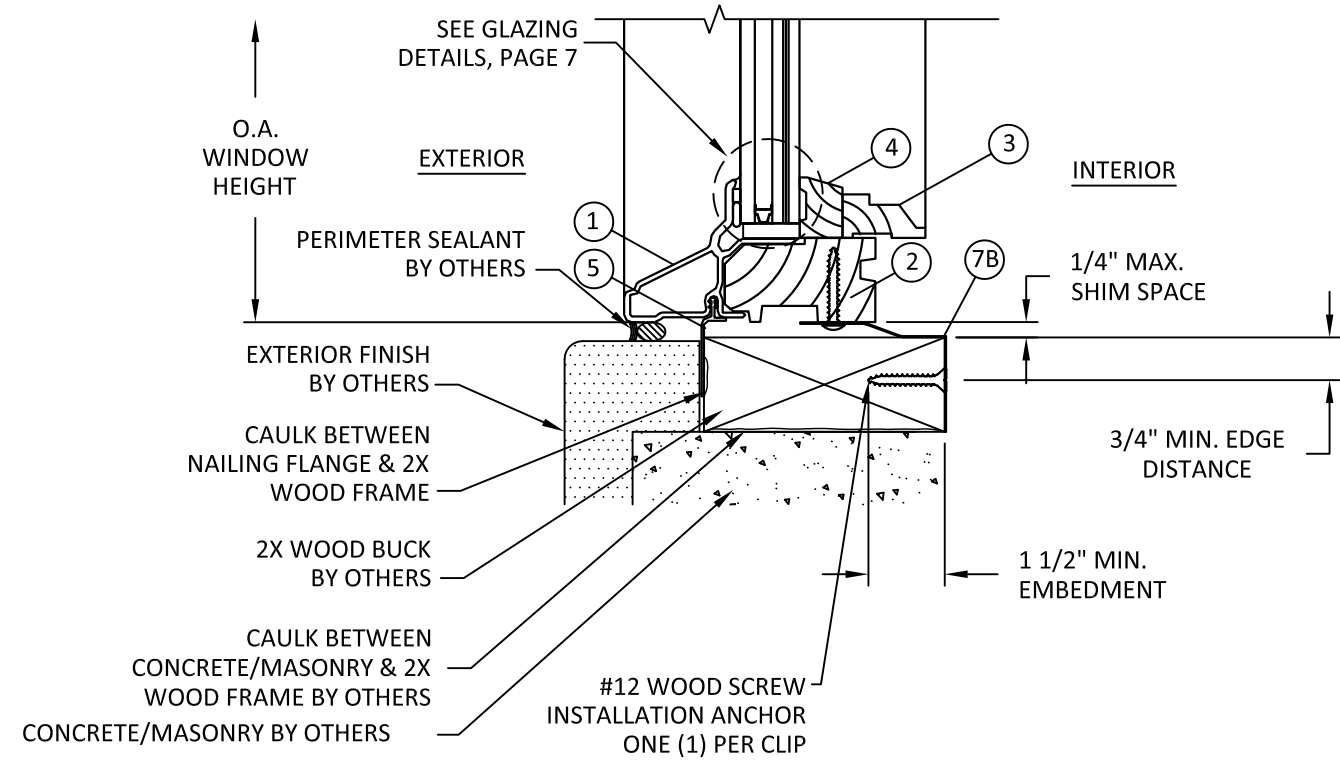
**C**  
**5**  
**VERTICAL SECTION**  
HEAD - 2X WOOD FRAME  
FASTENER THROUGH FRAME



**D**  
**5**  
**VERTICAL SECTION**  
HEAD - 2X WOOD FRAME  
INSTALLATION CLIP



**A**  
**5**  
**VERTICAL SECTION**  
SILL - CONCRETE/MASONRY  
INSTALLATION CLIP



**B**  
**5**  
**VERTICAL SECTION**  
SILL - 2X WOOD FRAME  
INSTALLATION CLIP

NOTE: NAILING FIN USE IS REQUIRED WHEN INSTALLATION CLIP (ITEM #7B) IS WRAPPED AROUND BUCK AS SHOWN IN DETAILS B/5 & D/5.

s:\projects\andersen windows\tdi-21-0940 400 series specialty windows-flexiframe and springline fiberglass clad wood direct set windows\dwg\awd294.dwg 10/27/2021 11:00 AM



**ANDERSEN**  
WINDOWS & DOORS

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

TITLE: 400 SERIES SPECIALTY WINDOW -  
FLEXIFRAME, ARCH FLEXIFRAME  
AND SPRINGLINE (IMPACT)  
HORIZONTAL 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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HERMES F. NORERO, P.E.  
TEXAS P.E. No. 118471  
BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD. # 338  
DANIA BEACH, FL 33004  
TBPE FIRM No. 13734

DATE: 10.12.21

DWG. BY: MS      CHK. BY: HFN

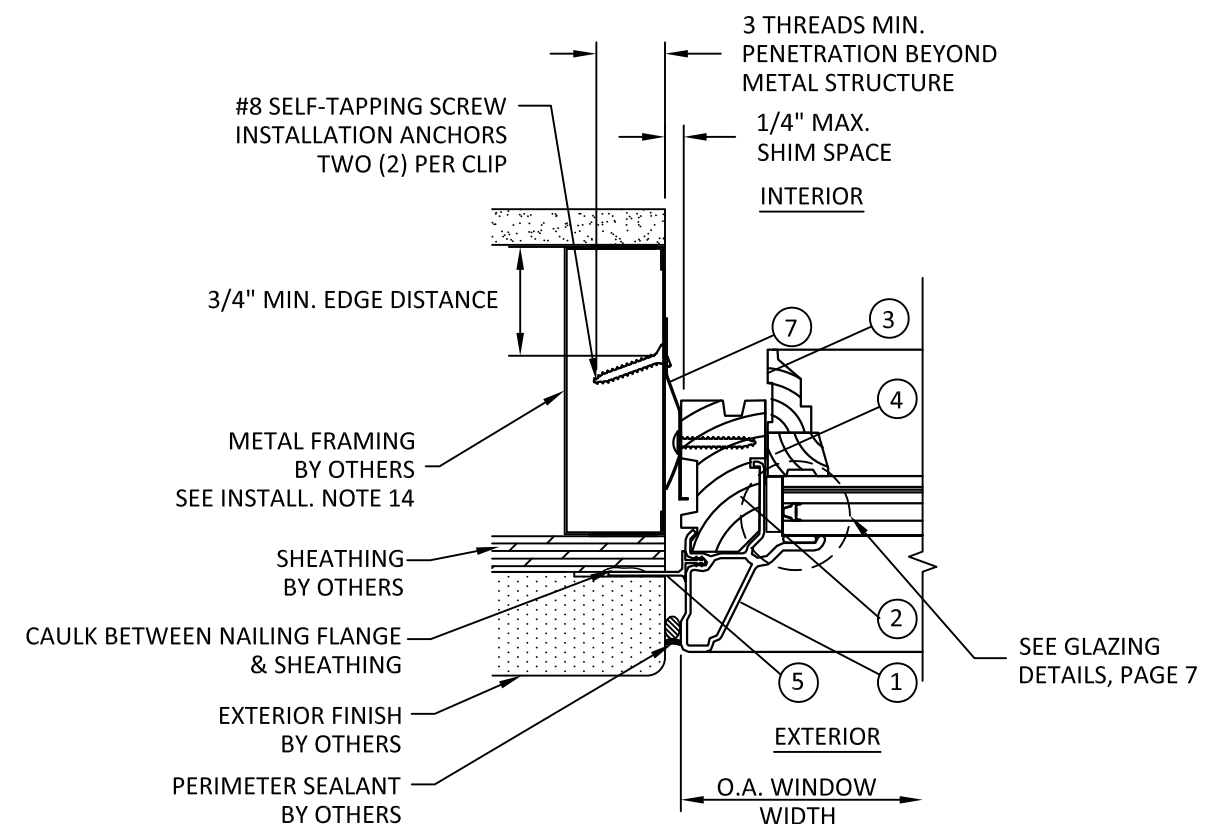
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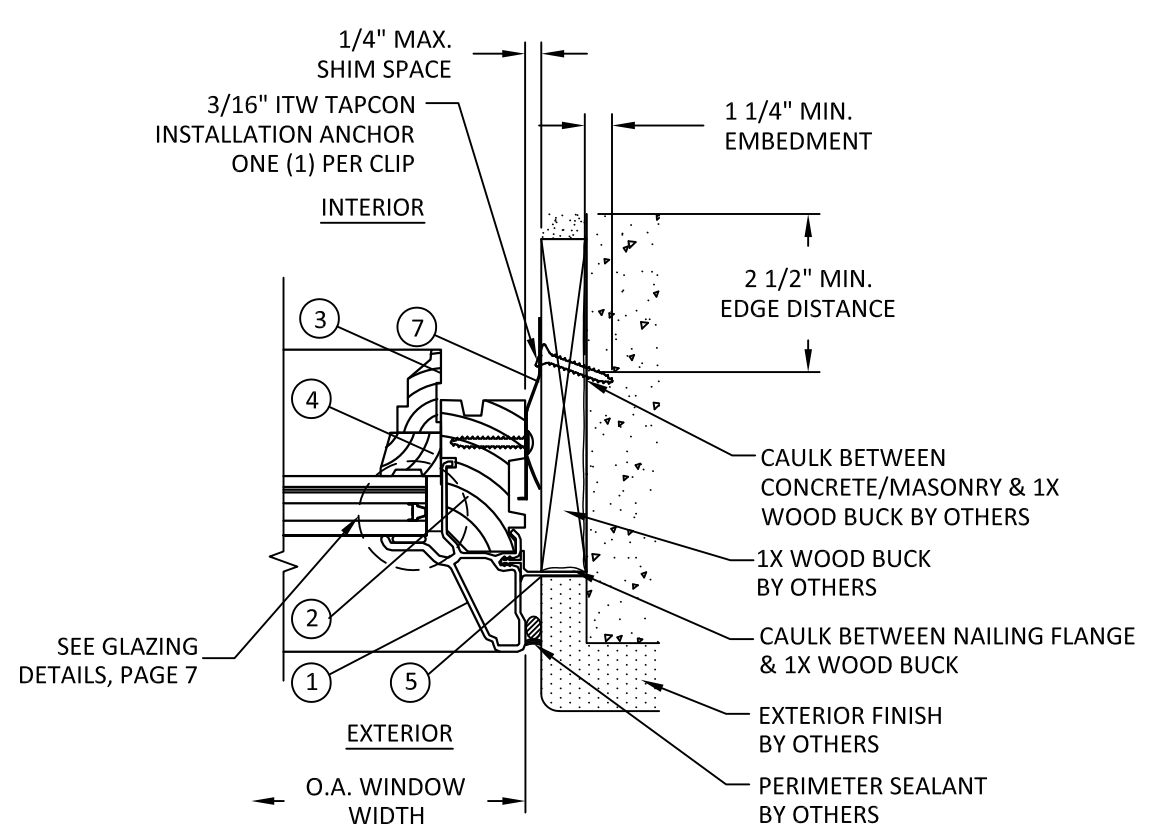
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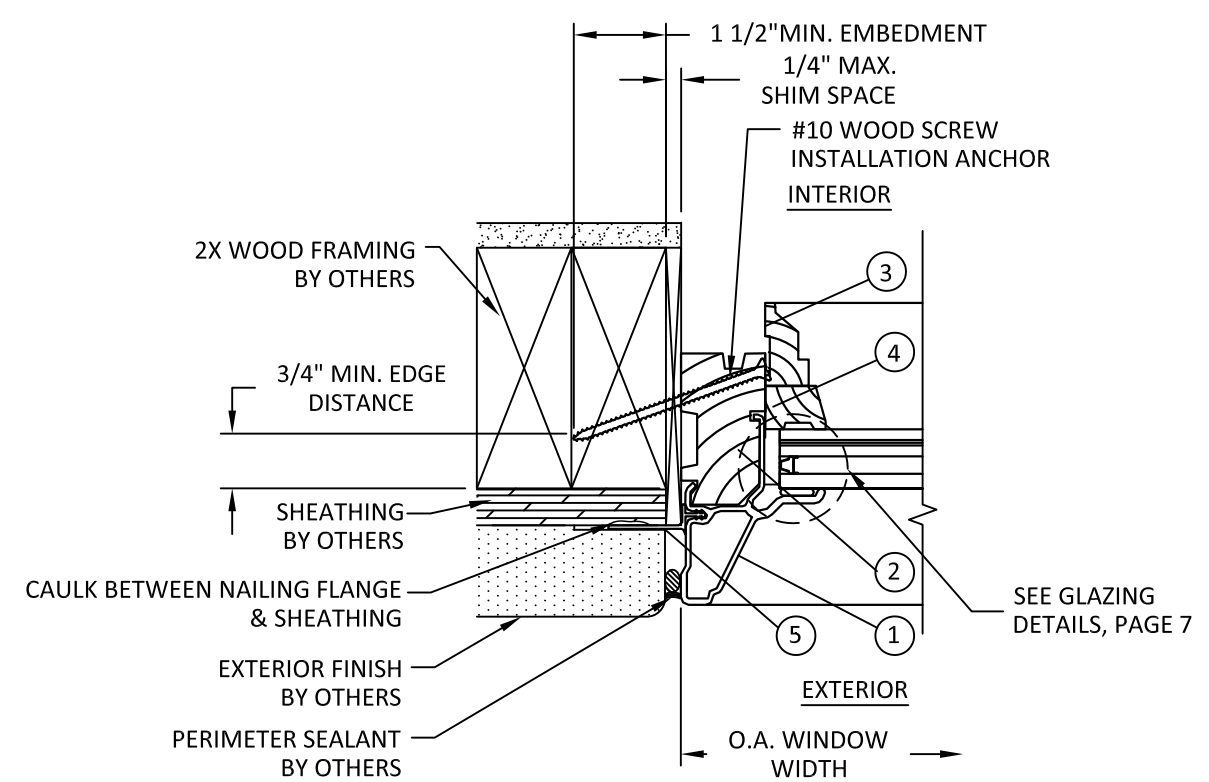
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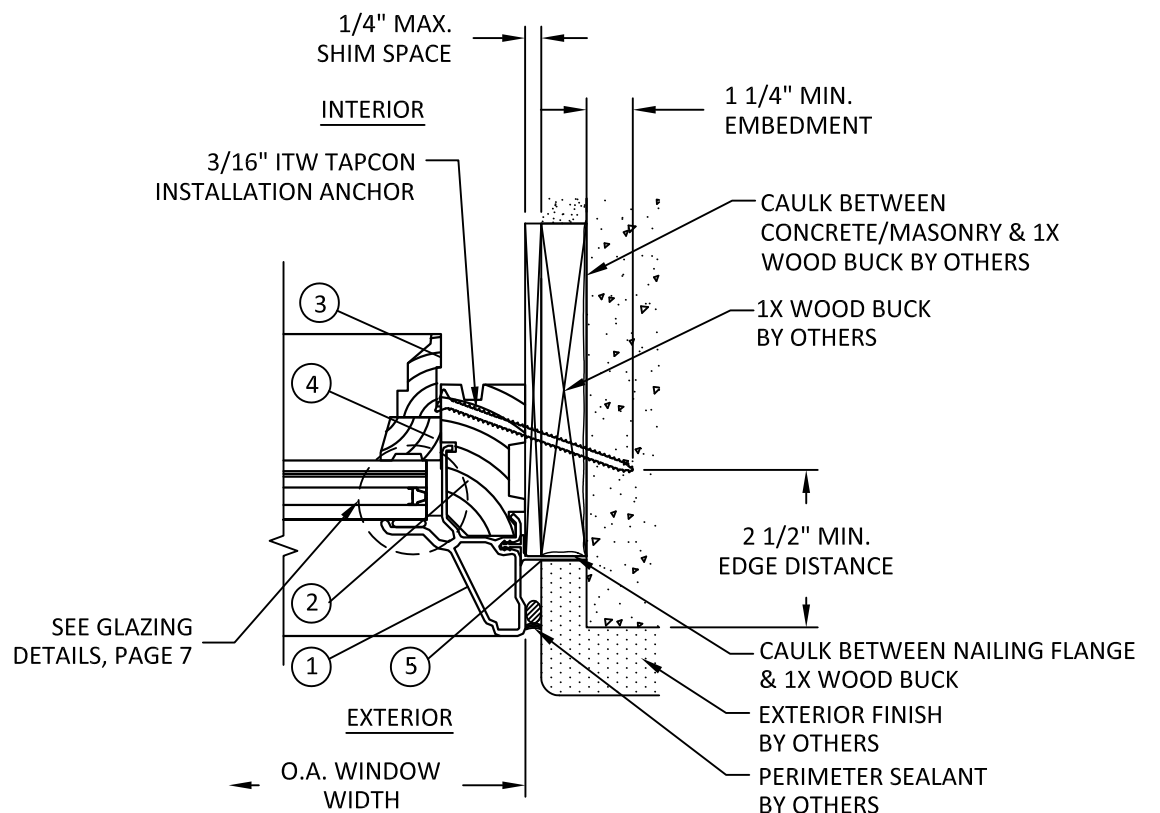
**G**  
**6** HORIZONTAL SECTION  
JAMB - METAL FRAME  
INSTALLATION CLIP



**H**  
**6** HORIZONTAL SECTION  
JAMB - CONCRETE/MASONRY  
INSTALLATION CLIP



**E**  
**6** HORIZONTAL SECTION  
JAMB - 2X WOOD FRAME  
FASTENER THROUGH FRAME



**F**  
**6** HORIZONTAL SECTION  
JAMB - CONCRETE/MASONRY  
FASTENER THROUGH FRAME

s:\projects\andersen\windows\tdi-21-0940-400-series-specialty-windows-flexiframes-and-springline-fiberglass-clad-wood-direct-set-windows\dwgs\awd294.dwg 10/27/2021 11:00 AM



**ANDERSEN**  
WINDOWS & DOORS

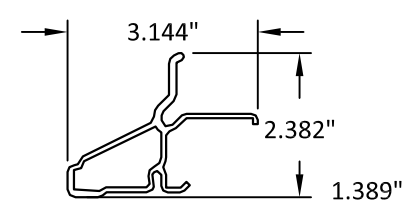
100 FOURTH AVE NORTH  
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TITLE: 400 SERIES SPECIALTY WINDOW -  
FLEXIFRAME, ARCH FLEXIFRAME  
AND SPRINGLINE (IMPACT)  
BOM, COMPONENTS, CONST. NOTES,  
GLAZING DETAILS  
PREPARED BY:  
**BUILDING DROPS, INC.**  
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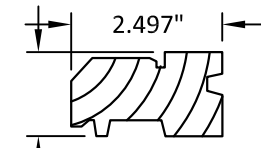
BILL OF MATERIALS			
NO.	DESCRIPTION	MATERIAL	MANUFACTURERS
1	EXTERIOR FRAME	FIBERGLASS/ALUMINUM	ANDERSEN CORPORATION
2	FRAME	WOOD	ANDERSEN CORPORATION
3	TRIM STOP	WOOD	ANDERSEN CORPORATION
4	GLASS STOP	WOOD	ANDERSEN CORPORATION
5	FLANGE	PVC	ANDERSEN CORPORATION
6	EXTENSION JAMB	WOOD	ANDERSEN CORPORATION
7	INSTALLATION CLIP	STAINLESS STEEL	ANDERSEN CORPORATION

NOTE: ALL WOOD TO BE PONDEROSA PINE OR EQUAL

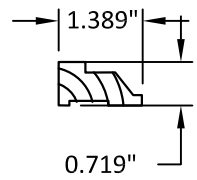
1 EXTERIOR FRAME  
FIBERGLASS/ALUMINUM  
SEE CONST. NOTE 1



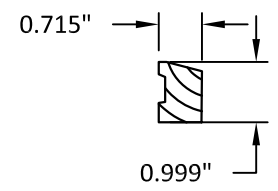
2 FRAME  
WOOD/LVL  
SEE CONST. NOTE 2



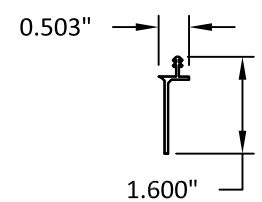
3 TRIM STOP  
WOOD



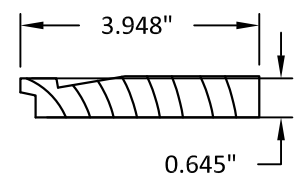
4 GLASS STOP  
WOOD  
SEE CONST. NOTE 4



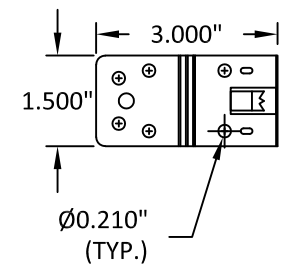
5 FLANGE  
PVC



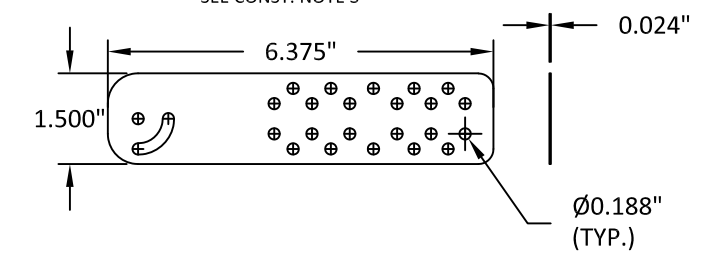
6 EXTENSION JAMB  
WOOD



7A INSTALLATION CLIPS  
304 SS  
SEE CONST. NOTE 3

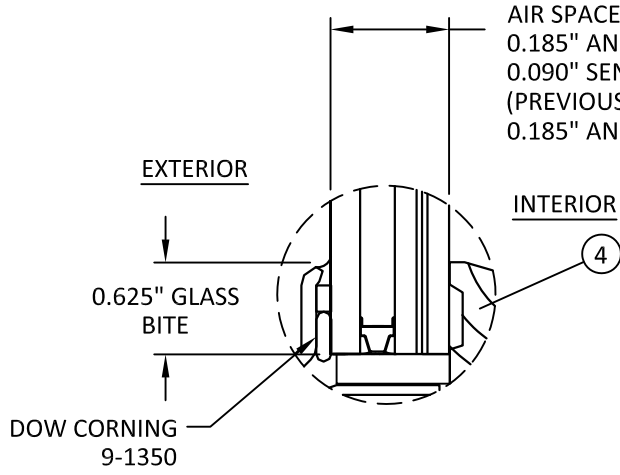


7B INSTALLATION CLIPS  
304 SS  
SEE CONST. NOTE 3

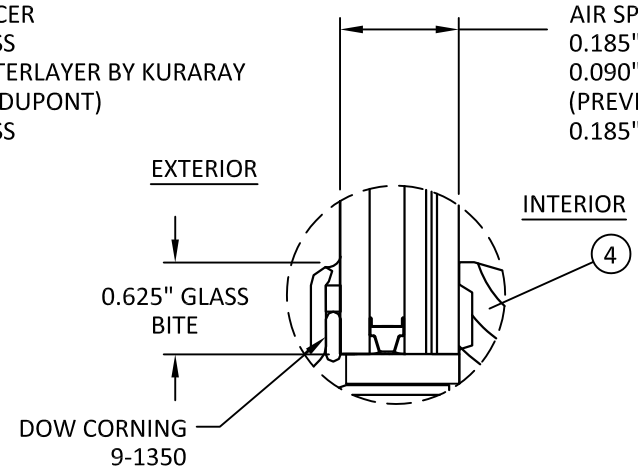


1.20" O.A. IG GLASS  
CONSISTING OF:  
0.224" ANNEALED GLASS  
AIR SPACE: METAL SPACER  
0.185" ANNEALED GLASS  
0.090" SENTRYGLAS INTERLAYER BY KURARAY  
(PREVIOUS KNOWN AS DUPONT)  
0.185" ANNEALED GLASS

1.20" O.A. IG GLASS  
CONSISTING OF:  
0.224" TEMPERED GLASS  
AIR SPACE: METAL SPACER  
0.185" ANNEALED GLASS  
0.090" SENTRYGLAS INTERLAYER BY KURARAY  
(PREVIOUS KNOWN AS DUPONT)  
0.185" ANNEALED GLASS



**GLAZING DETAIL 1**

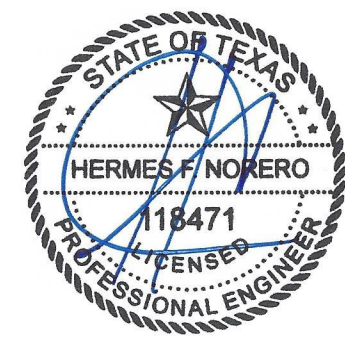


**GLAZING DETAIL 2**

CONSTRUCTION NOTES:  
1) FIBERGLASS CLADDING IS USED FOR STRAIGHT FRAME MEMBERS AND ALUMINUM CLADDING IS USED WITH CURVED FRAME MEMBERS.  
2) SOLID WOOD FRAMES ARE USED FOR STRAIGHT MEMBERS AND LVL FRAMES ARE USED FOR CURVED MEMBERS.  
3) INSTALLATION CLIPS SHALL BE ATTACHED TO FRAME WITH TWO (2) #8 X 1-1/4" SS SCREWS.  
4) INTERIOR GLASS STOP SHALL BE ATTACHED TO THE FRAME WITH 18 GA. X 2" BRAD NAILS, 2" FROM CORNERS AND 4" O.C. THEREAFTER.

NOTE:  
1. ALL GLAZING MEETS SAFETY GLAZING REQUIREMENTS AS PER CH 24 OF THE IBC.  
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A).  
3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36".  
4. D.L.O. MAY NOT EXCEED MAX DIMENSIONS SHOWN IN ELEVATIONS.

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