

PICTURE WINDOW - LARGE MISSILE IMPACT

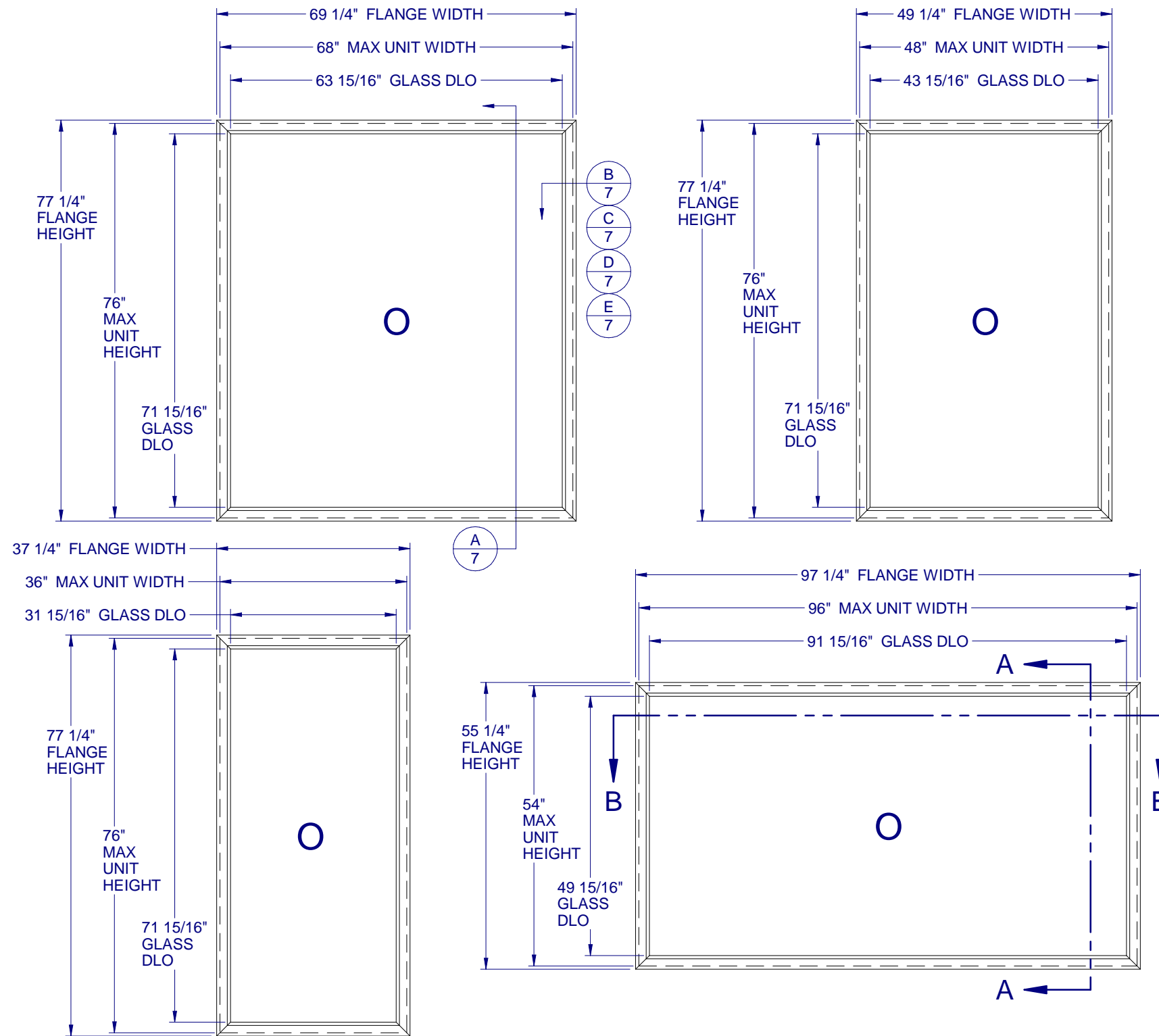


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MAX. UNIT SIZE	DESIGN PRESSURE RATING	IMPACT RATING
36" x 76"	+/- 50 PSF	LARGE MISSILE IMPACT
48" x 76"		
68" x 76"		
96" x 54"		

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION AND IS RATED FOR MISSILE LEVEL D IMPACT USE IN WIND ZONE 3 AREAS AS DEFINED IN ASTM E 1996 PER THE FBC.

THIS PRODUCT MAY NOT BE USED IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OR IN ASTM E 1996 WIND ZONE 4 AREAS.
2. GLAZING OPTIONS: (SEE SHEET 3)
3. CONFIGURATIONS: "O". ARCHITECTURAL SHAPES INCLUDE, BUT ARE NOT LIMITED TO, THOSE SHOWN ON SHEET 2.
4. DESIGN PRESSURE RATING:
-NEGATIVE DESIGN LOADS BASED ON, TESTED PRESSURE AND GLASS TABLES ASTM E-1300-04e01/09.
-POSITIVE DESIGN LOADS BASED ON, TESTED PRESSURE, WATER INFILTRATION TEST PRESSURE AND GLASS TABLES ASTM E-1300-04e01/09.
5. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEET 7 FOR ANCHOR DETAILS. WINDLOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
6. PRODUCT APPROVED FOR IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED.
7. ALL FRAMES FULLY WELDED.
8. SERIES / MODEL DESIGNATION PW-6150.
9. THE DESIGNATION X AND O STAND FOR THE FOLLOWING:
O = FIXED SASH
10. SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.
11. PICTURE WINDOWS CAN BE INSTALLED IN ANY ORIENTATION



415 PVC FIXED WINDOW IMPACT

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FLORIDA APPROVAL NO.:
33493



10/2/2023
 LUCAS A. TURNER, P.E.
 FL PE # 58201
 Turner Engineering & Consulting, Inc.
 2428 Old Natchez Trc Trl
 Camden, TN 38320
 PH. 941-380-1574

SHEET DESCRIPTION:
 GENERAL NOTES AND ELEVATIONS

DRAWN BY: MCS	DATE: 9/20/2023
DWG #: PEL-1073	REV.: A
SCALE: 1:25	SHEET 1 OF 7

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IMPACT**

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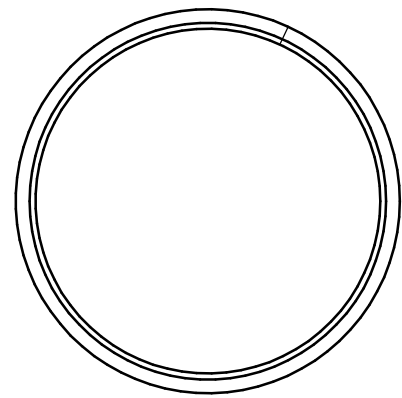
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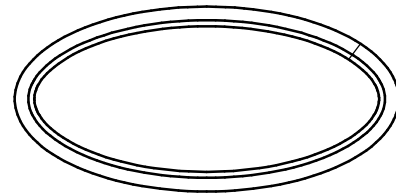
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**ARCHITECTURAL
SHAPES**

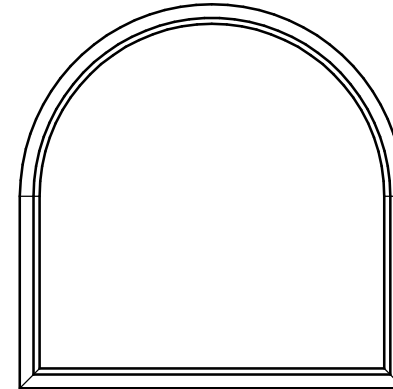
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DWG #: PEL-1073	REV.: A
SCALE: 1:20	SHEET 2 OF 7



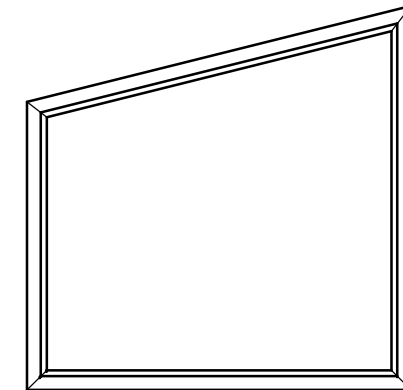
FULL CIRCLE



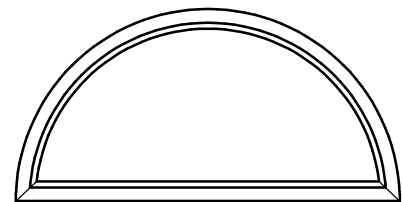
FULL ELLIPSE (OVAL)



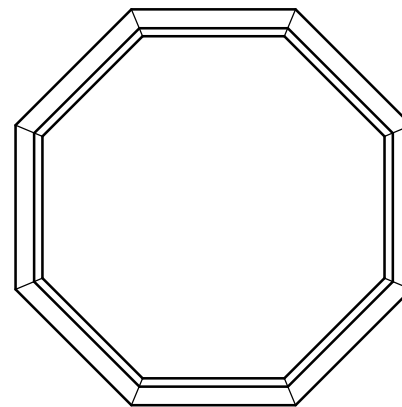
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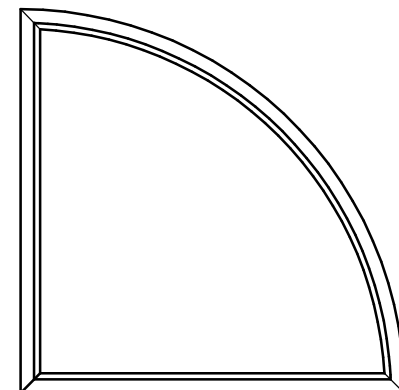
TRAPEZOID



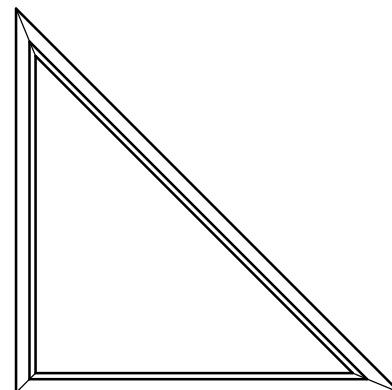
1/2 CIRCLE



OCTAGON



1/4 CIRCLE



TRIANGLE

NOTES:

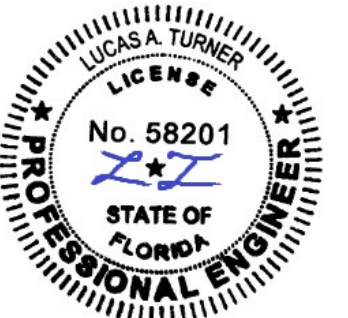
1. SEE SHEET 6 FOR DETAILED ANCHOR INSTALLATION REQUIREMENTS.
2. THRU FRAME - MASONRY, WOOD OR METAL OPENING.
THRU FIN - WOOD OPENING.
3. OVERALL SIZE MUST NOT EXCEED THE MAX. WIDTH AND HEIGHT OF
RECTANGULAR WINDOWS ON SHEET 1.
4. ANCHOR SPACING FOR ARCHITECTURAL FLANGE AND FIN WINDOWS
MUST FOLLOW THE LAYOUTS SHOWN ON SHEET 6, WITH ANCHOR
SPACING MEASURED ALONG THE LENGTH OF THE PRODUCT.

MAX. UNIT SIZE	GLASS TYPE
36" x 76"	A
48" x 76"	B
68" x 76"	C
96" x 54"	D

415 PVC FIXED WINDOW IMPACT

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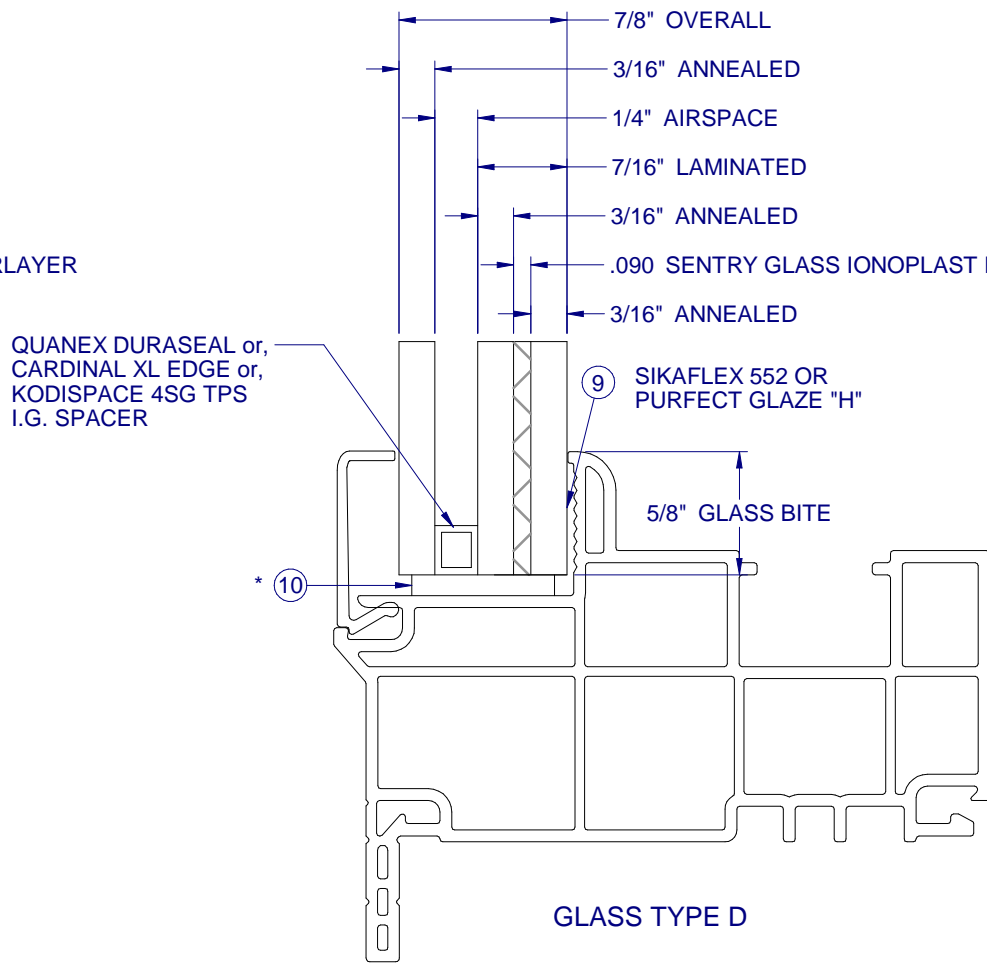
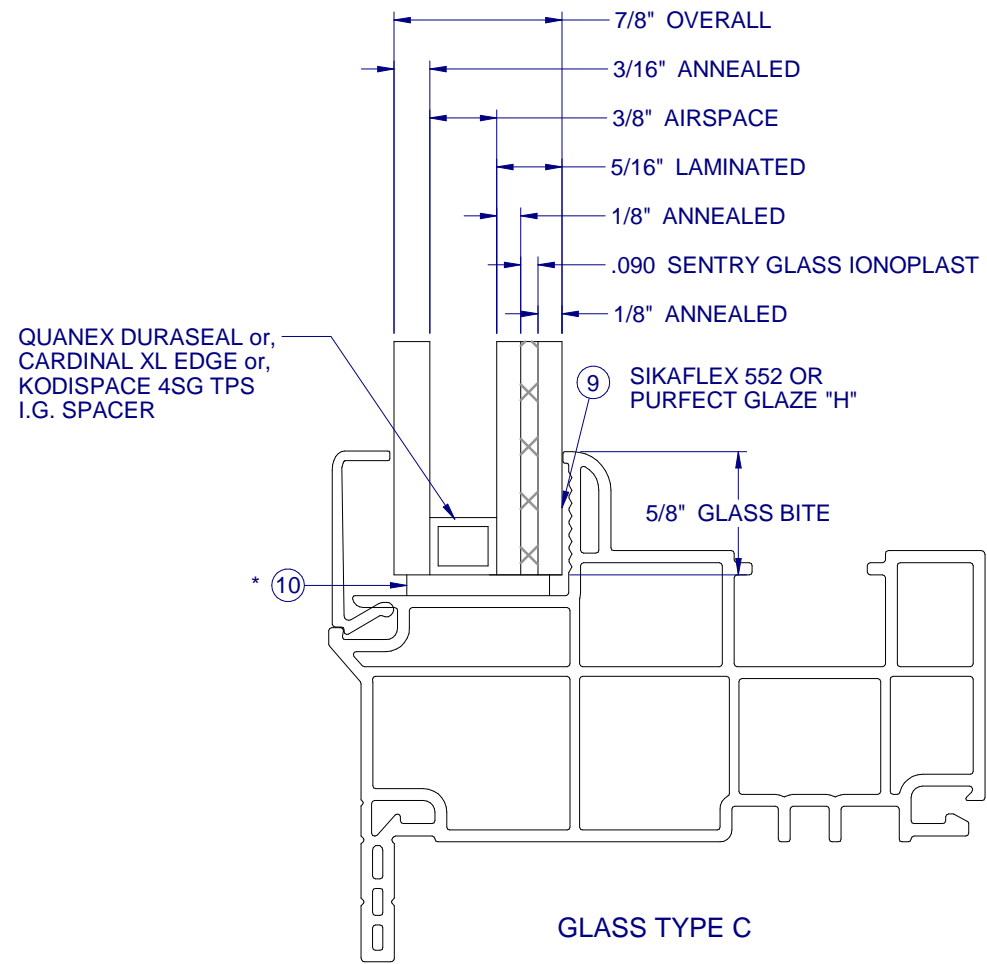
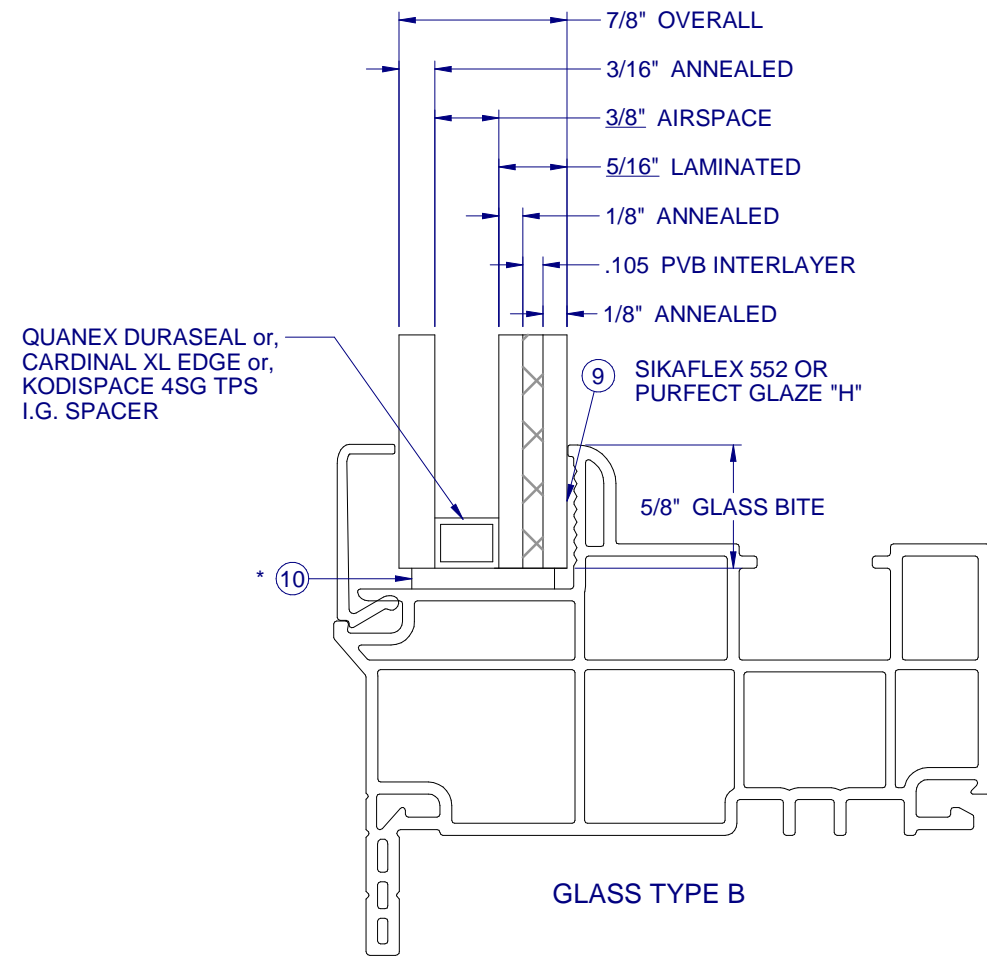
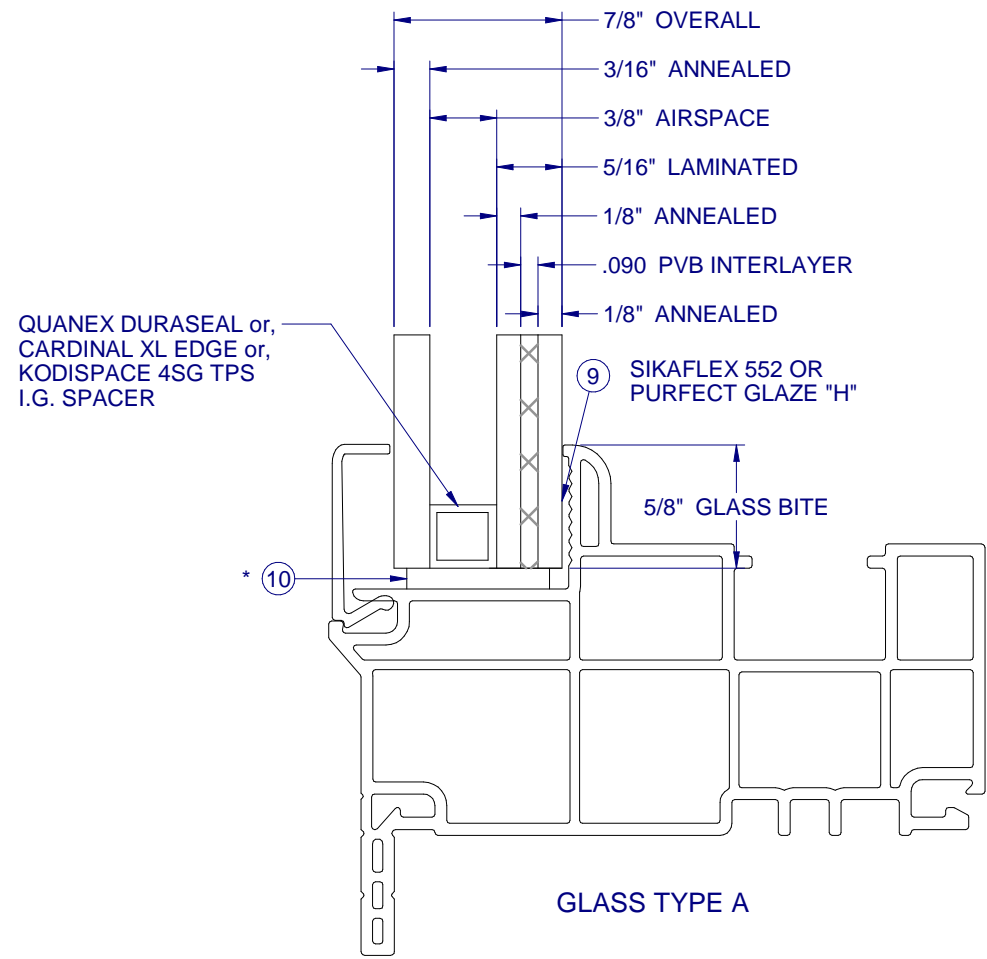
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SHEET DESCRIPTION:
GLAZING DETAILS

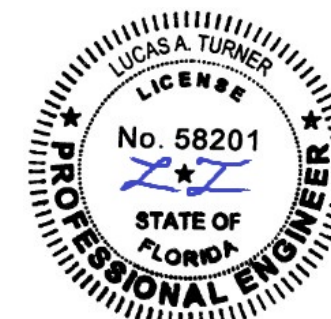
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DWG #: PEL-1073	REV.: A
SCALE: 1:1	SHEET 3 OF 7



**415 PVC
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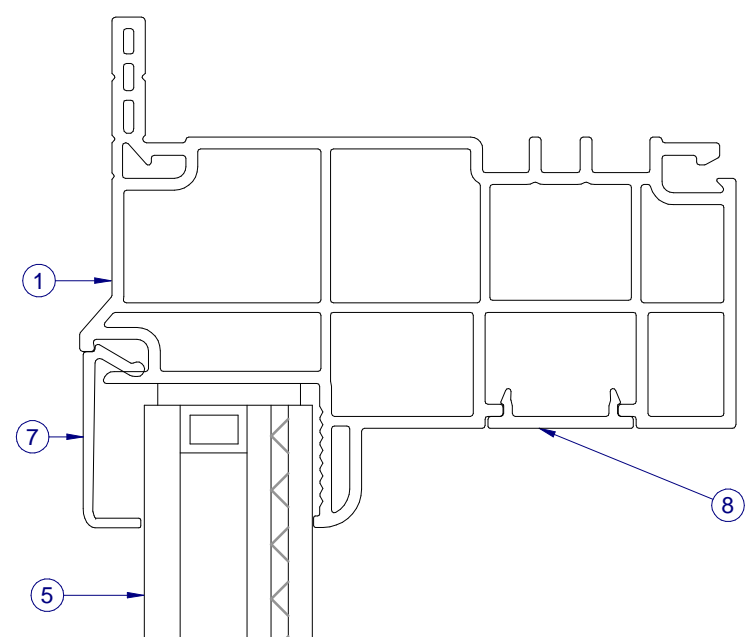


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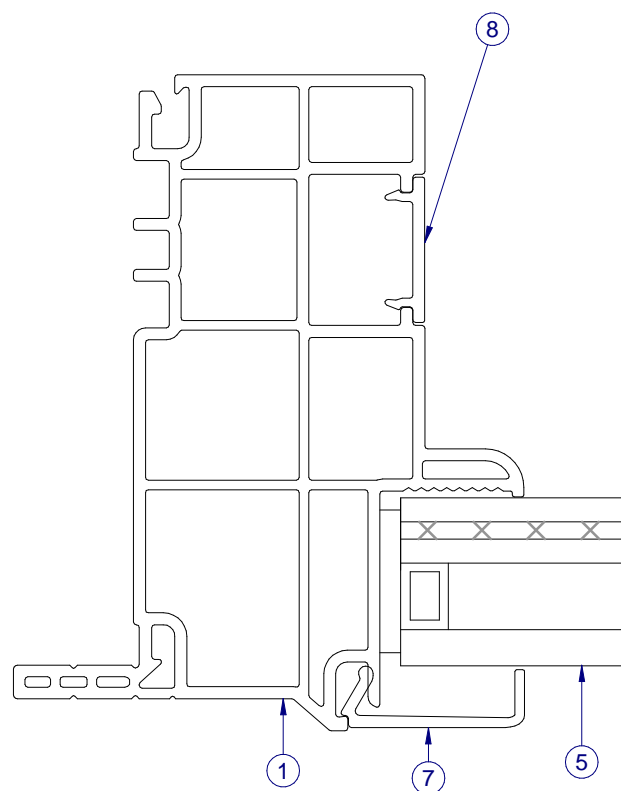
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SECTION VIEWS

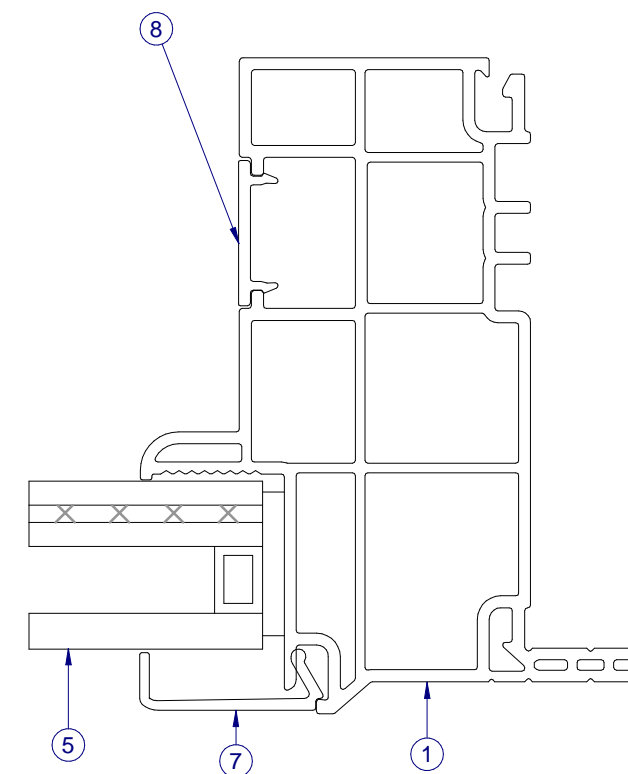
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MCS	9/20/2023
DWG #:	REV.:
PEL-1073	A
SCALE:	SHEET
1:1	4 OF 7



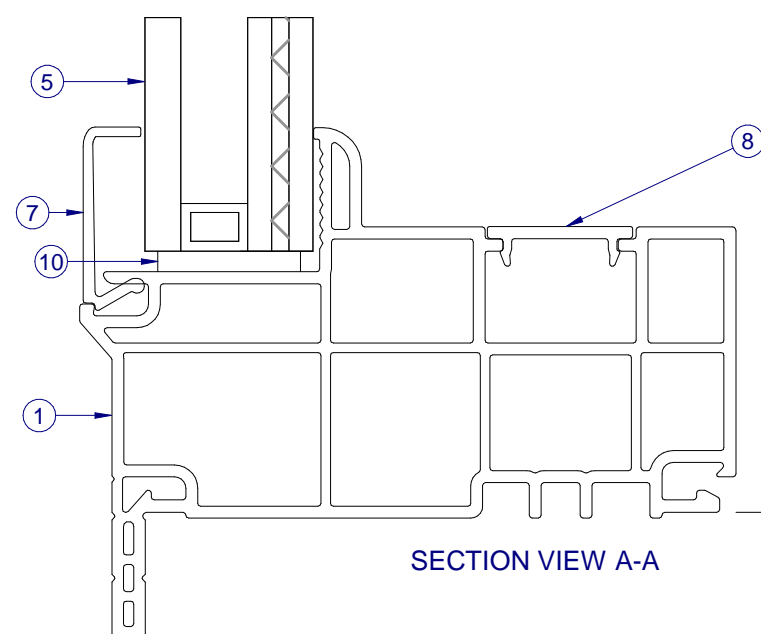
INTERIOR



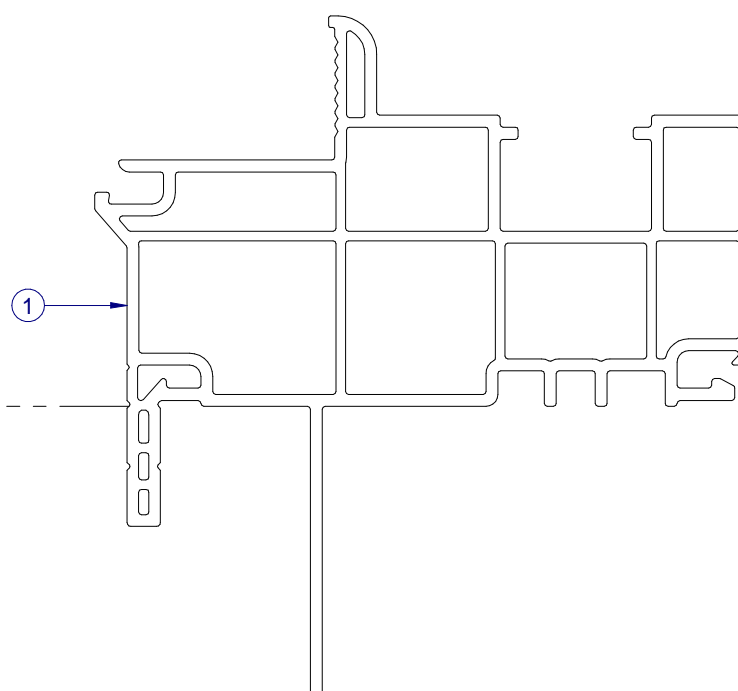
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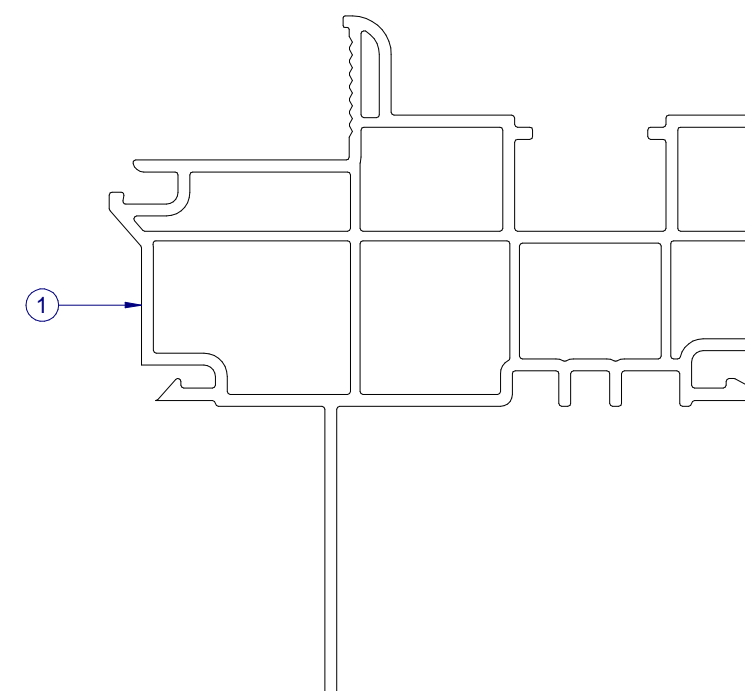
SECTION VIEW B-B



SECTION VIEW A-A



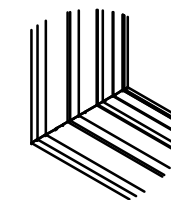
ALTERNATE FIN FRAME



ALTERNATE FIN ONLY FRAME

ITEM	PART #	DESCRIPTION	MATERIAL
1	H-6128	MAIN FRAME, FLANGE	PVC
5	GLASS	SEE SHEET 3	
7	S-6141	GLAZING BEAD	PVC
8	S-6218	FRAME FILLER	PVC
9		PURFECT GLAZE "H", SIKAFLEX 552	
10	P-5615	Setting Block, .12 x 1 x 2	RUBBER

FRAME CORNER CONSTRUCTION



CORNER WELD
(ALL SIDES)
1:8

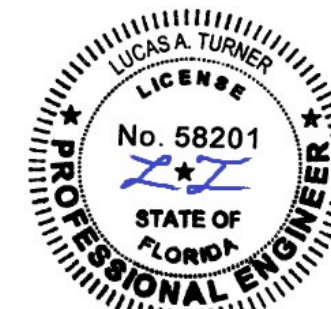


Pella Corporation
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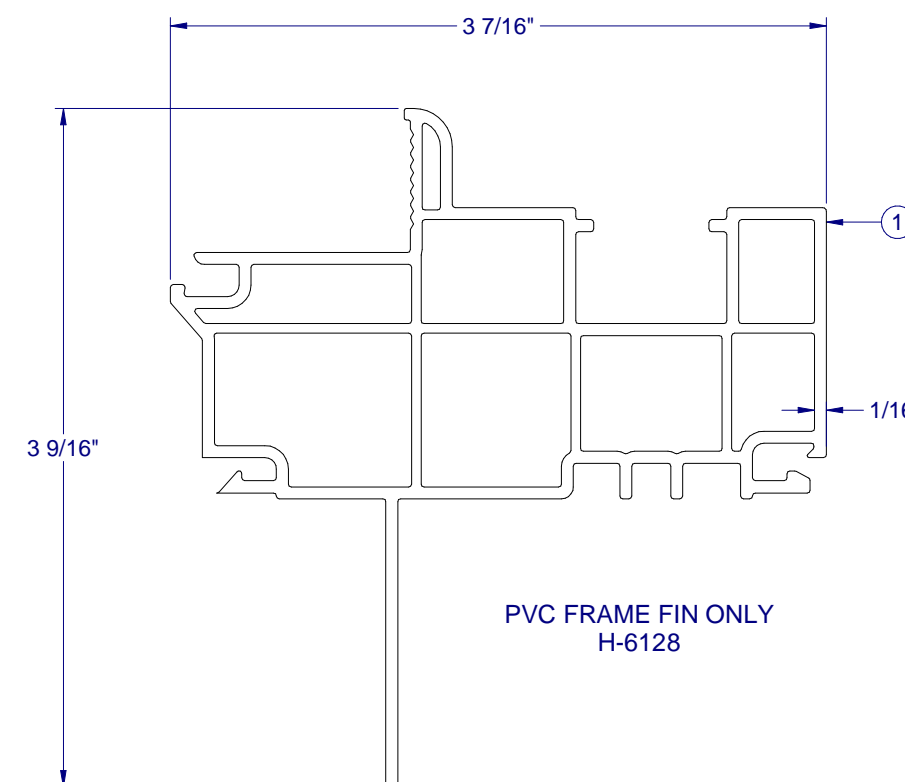
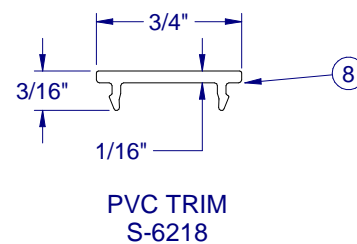
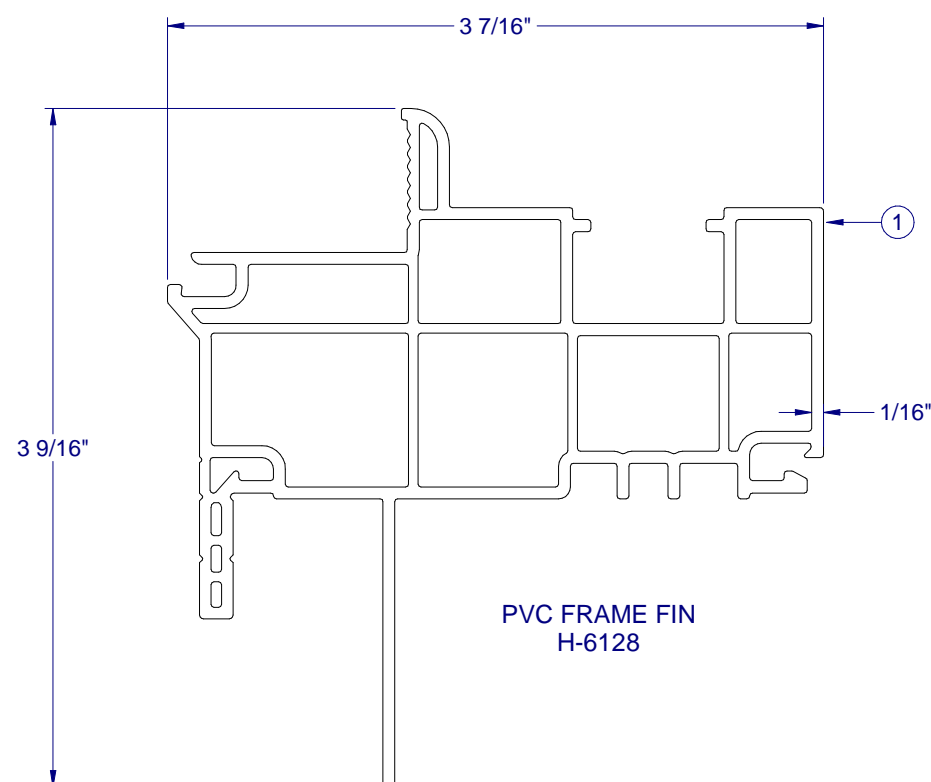
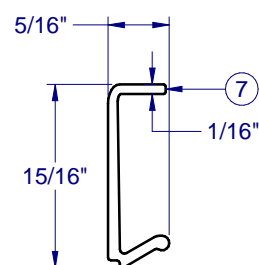
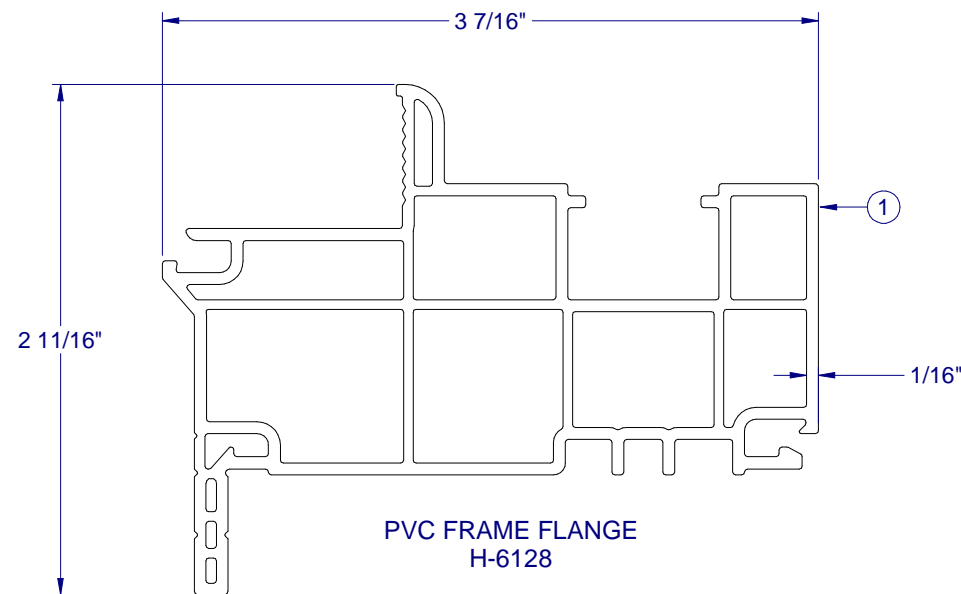
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SHEET DESCRIPTION:

BOM AND EXTRUSIONS

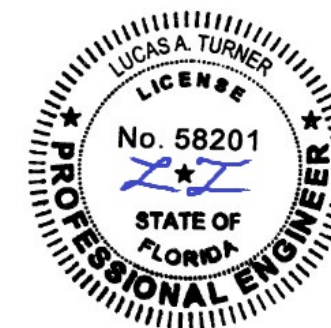
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SCALE: 1:1	SHEET 5 OF 7



415 PVC FIXED WINDOW IMPACT

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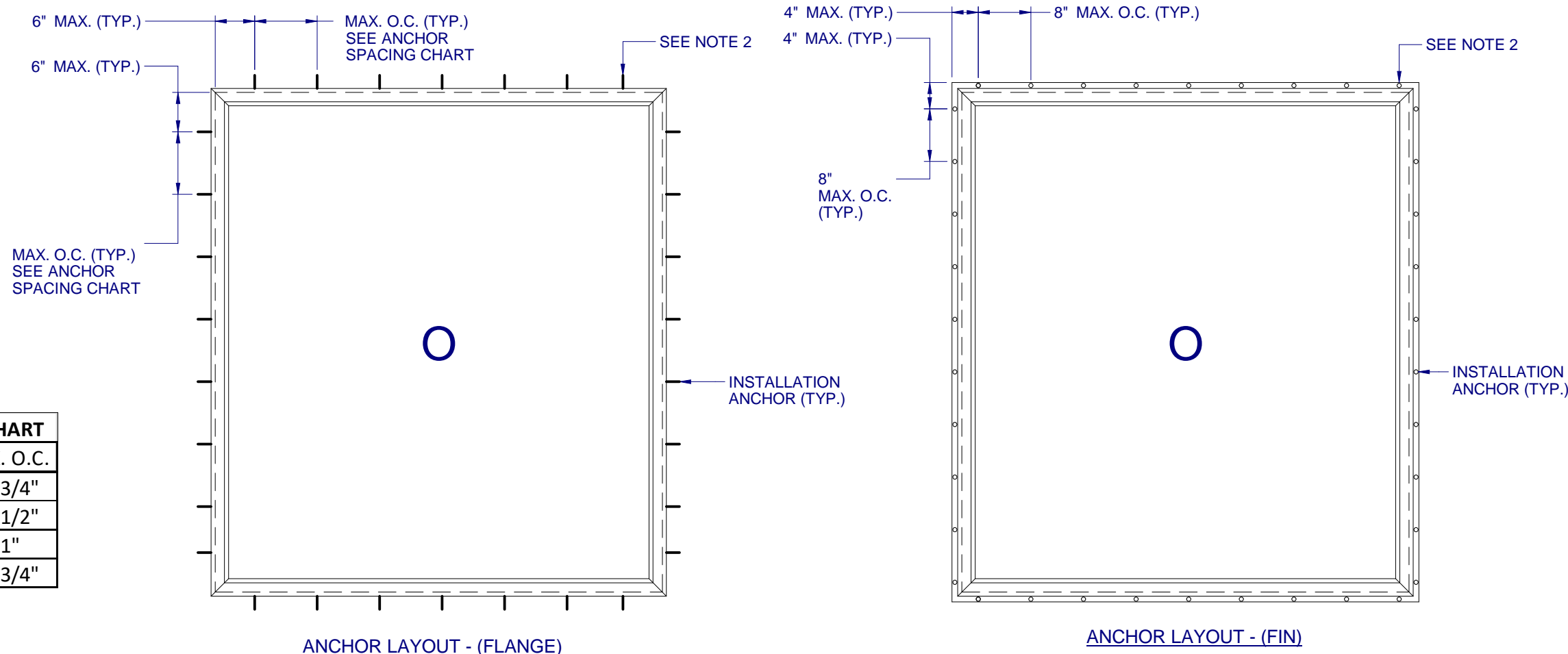


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SHEET DESCRIPTION:
ANCHOR SCHEDULE AND
NOTES

DRAWN BY: MCS	DATE: 9/20/2023
DWG #: PEL-1073	REV.: A
SCALE: 1:20	SHEET 6 OF 7



ANCHOR SPACING CHART	
MAX. UNIT SIZE	MAX. O.C.
36" x 76"	20-3/4"
48" x 76"	15-1/2"
68" x 76"	11"
96" x 54"	13-3/4"

NOTES:

- INSTALL ONE ANCHOR AT EACH INSTALLATION LOCATION. ANCHOR SPACING APPLIES TO ALL SHAPES (SEE SHEET 2) ALONG ALL FRAME EDGES. SILL ANCHOR SPACING SAME AS HEAD.
- SHIM AS REQ AT EACH INSTALLATION ANCHOR USING LOAD BEARING SHIMS. MAX. ALLOWABLE SHIM STACK TO BE 1/4". USE SHIMS WHERE SPACE GREATER THAN 1/16" IS PRESENT. LOAD BEARING SHIMS SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER. WOOD SHIMS ARE NOT ALLOWED.
- ANCHOR TYPE, SIZE, SPACING AND EMBEDMENT SHALL BE AS SPECIFIED IN THESE DRAWINGS, SEE TABLE 1, SHEET 7.
- ALL INSTALLATION ANCHORS MUST BE MADE OF OR PROTECTED WITH A CORROSION RESISTANT MATERIAL OR COATING. DISSIMILAR METALS OR MATERIALS IN CONTACT WITH PRESSURE TREATED WOOD MUST BE PROTECTED TO PREVENT REACTION.
- INSTALLATION ANCHORS SHALL BE IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM SPECIFIED IN TABLE 1, SHEET 7.
- ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR CONCRETE/CMU OPENINGS, EMBEDMENT SHALL BE BEYOND WOOD BUCKS, IF USED, INTO SUBSTRATE. INSTALLATIONS INTO SOLID CONCRETE OR GROUT-FILLED CMU MAY INCLUDE BUT DO NOT REQUIRE 1X WOOD BUCKS BETWEEN THE PRODUCT AND SUBSTRATE. INSTALLATIONS INTO HOLLOW CMU REQUIRE THE USE OF 1X WOOD BUCKS BETWEEN THE PRODUCT AND SUBSTRATE.
- A MINIMUM CENTER-TO-CENTER SPACING SHALL BE MAINTAINED BETWEEN ALL FASTENERS: 3-9/16" FOR MASONRY, 1" FOR WOOD AND METAL.
- WOOD OR MASONRY OPENINGS, BUCKS AND BUCK FASTENERS SHALL BE PROPERLY DESIGNED BY THE ARCHITECT OR ENGINEER OF RECORD AND INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS AS SHOWN IN TABLE 1, SHEET 7. CONCRETE AND MASONRY SUBSTRATES MAY NOT BE CRACKED.
- SEALING AND FLASHING STRATEGIES FOR OVERALL WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS FOLLOWING THE CURRENT VERSION OF THE REFERENCE DOCUMENTS: FMA/AAMA 100(FIN WINDOWS), FMA/AAMA 200(FLANGE WINDOWS), FMA/WDMA 250(BOX WINDOWS), FMA/AAMA/WDMA 300(EXTERIOR DOORS)

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SHEET DESCRIPTION:

INSTALLATION DETAILS

DRAWN BY:	DATE:
MCS	9/20/2023
DWG #:	REV.:
PEL-1073	A
SCALE:	SHEET
1:2	7 OF 7

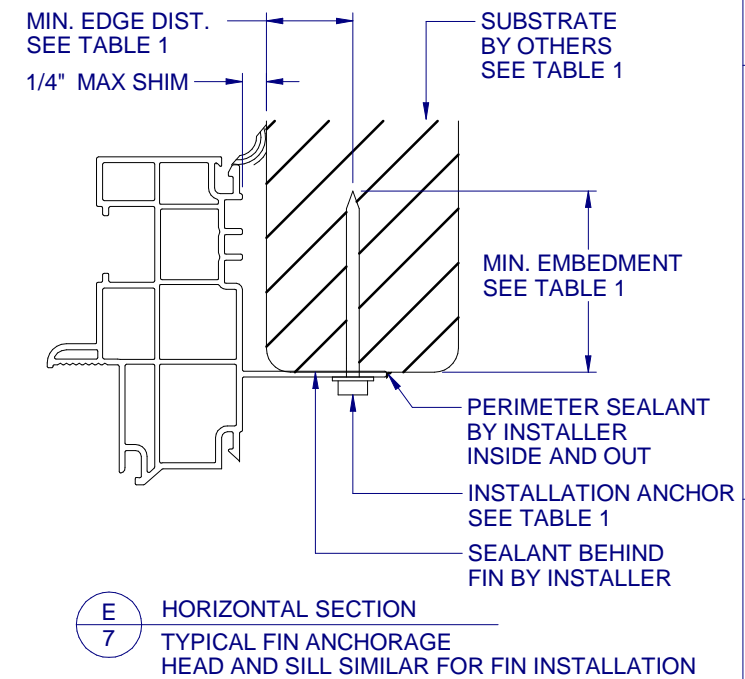
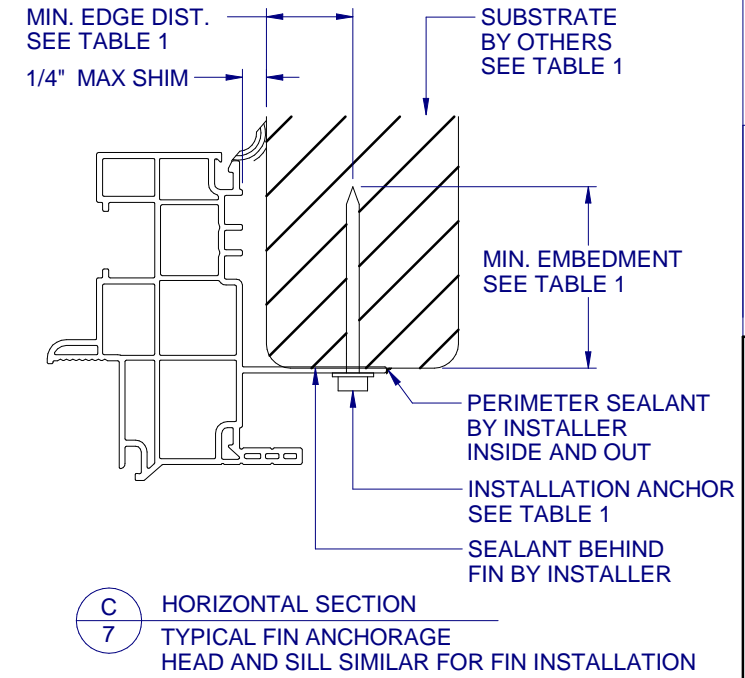
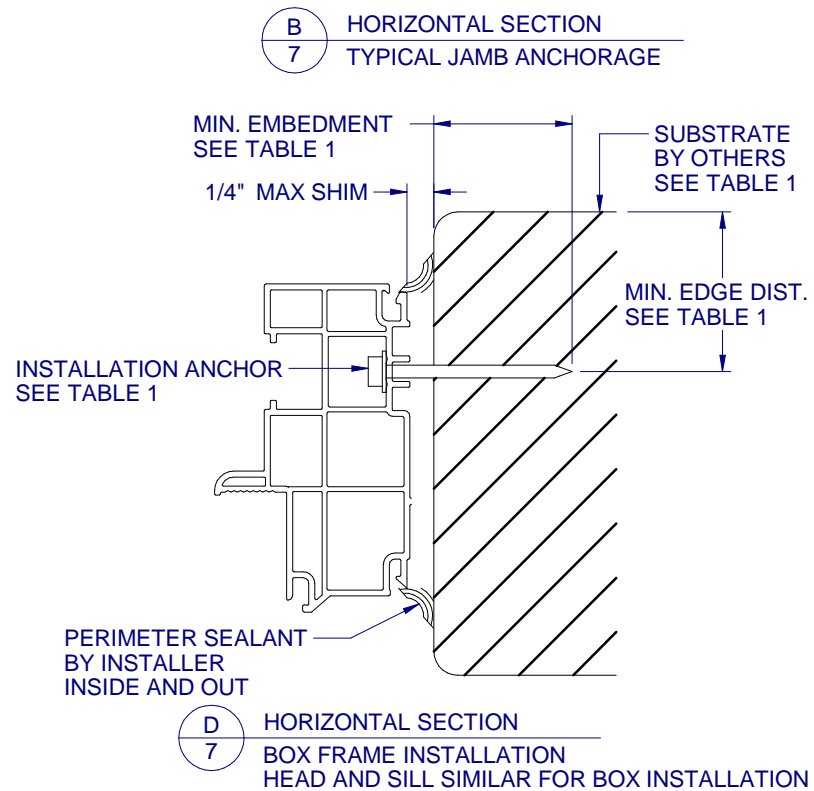
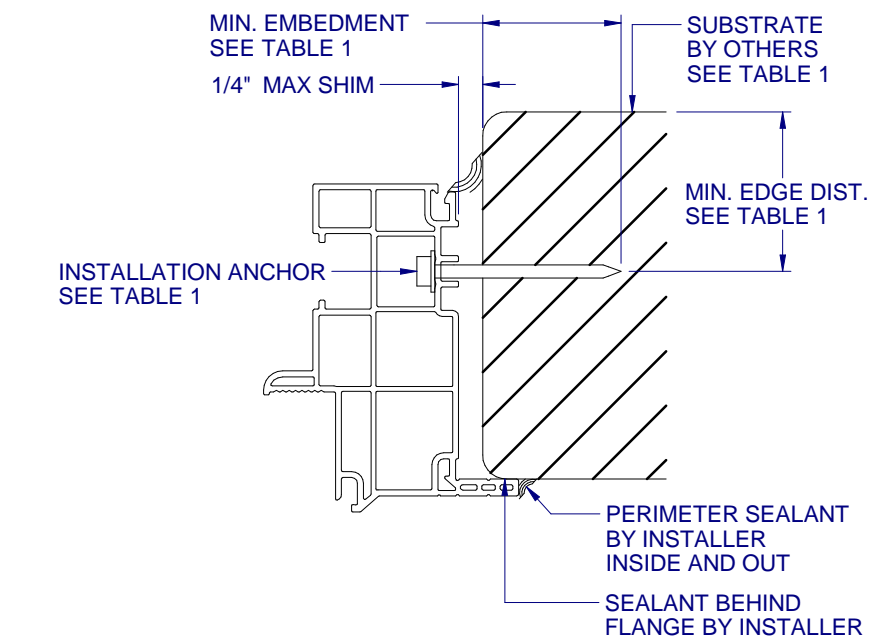
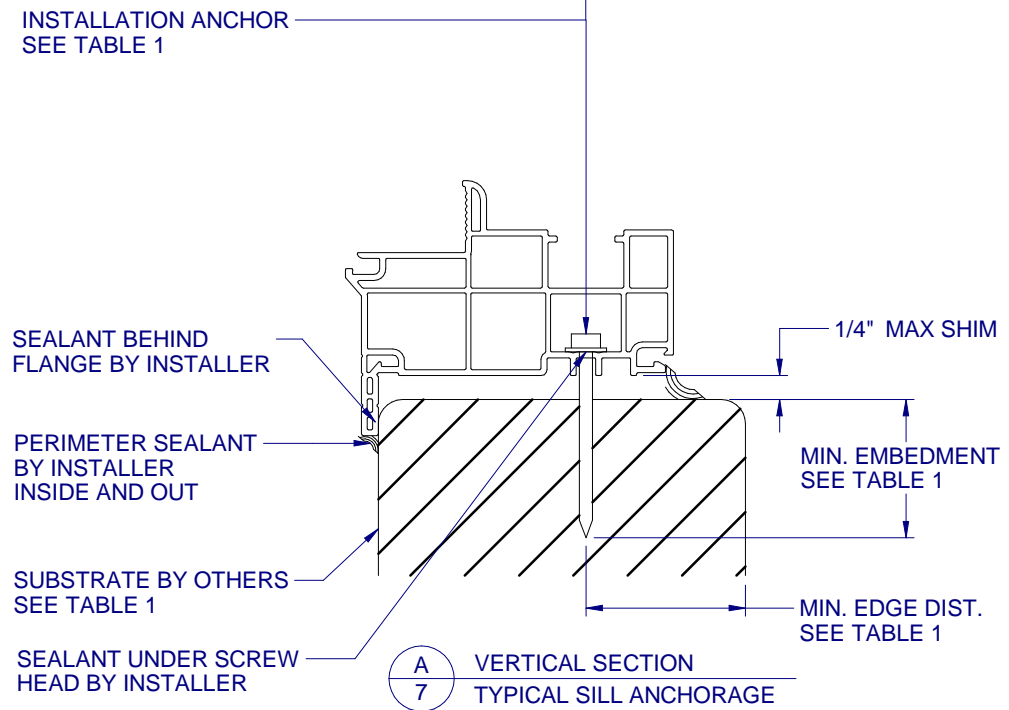
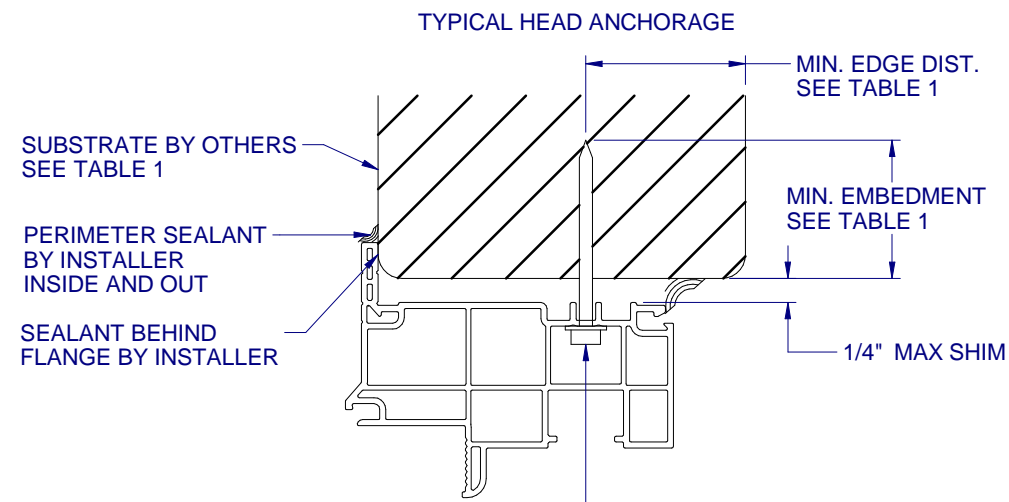


TABLE 1: APPROVED INSTALLATION FASTENERS

FRAME TYPE	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DIST.
FLANGE	CONCRETE (2.0 KSI MIN.)	3/16" ITW TAPCON	1-1/2"	1-1/8"
FLANGE	HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	2"
FLANGE	CONCRETE (3.05 KSI MIN.)	3/16" DEWALT ULTRACON+	1-3/4"	1"
FLANGE	HOLLOW OR GROUT-FILLED CMU (ASTM C-90)	3/16" DEWALT ULTRACON+	1-3/4"	2-1/2"
FLANGE	2X MIN. SOUTHERN PINE (G=0.55)	3/16" ITW TAPCON OR DEWALT ULTRACON+	1-3/8"	7/8"
FLANGE	2X MIN. SOUTHERN PINE (G=0.55)	#10 WOOD SCREW	1-3/8"	7/8"
FLANGE	16 GAUGE (0.060") MIN. STEEL STUD (33 KSI YIELD MIN)	#10-16 HILTI KWIK-FLEX OR ITW TEKS SELF-DRILLING SCREW	FULL THREAD THRU 0.060"	7/16"
FLANGE	1/8" ALUM. (6063-T5 MIN.) OR 1/8" STEEL (33 KSI MIN.)	#10 GRADE 5 SELF-TAPPING / DRILLING SCREW	FULL THREAD THRU 0.125"	7/16"
FIN	2X MIN. SOUTHERN PINE (G=0.55)	#8 WOOD SCREW	1-1/2"	7/16"

FLANGE REMOVAL NOTE: PARTIALLY OR FULLY REMOVING THE FLANGE,
 UP TO AND INCLUDING A BOX-FRAME APPLICATION IS ACCEPTABLE PROVIDED:

- MIN. 1/4" FILLET OF CONSTRUCTION-GRADE ADHESIVE CAULK IS APPLIED INSIDE AND OUT, FULL PERIMETER, BY INSTALLER.
- PRODUCT ANCHORAGE IS IN ACCORDANCE WITH REQUIREMENTS AS SHOWN FOR FLANGE WINDOWS.