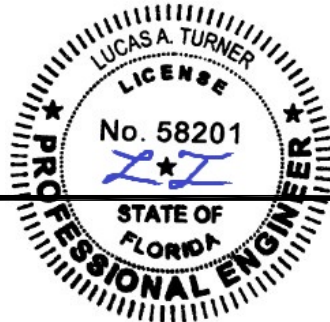
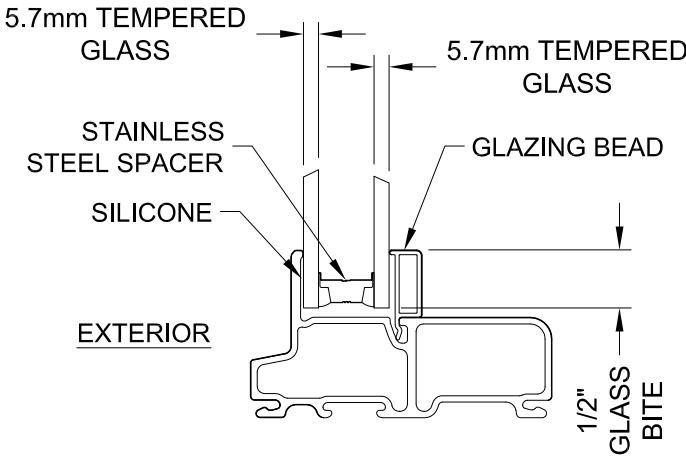
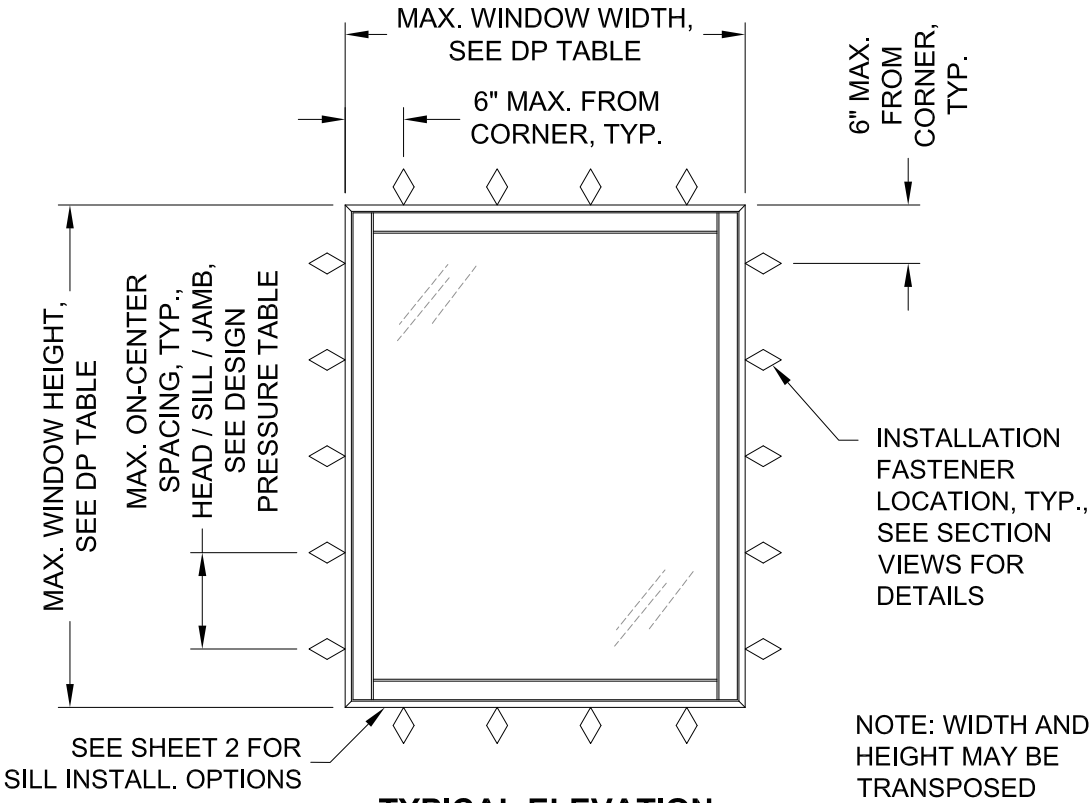


ESSENTIAL DIRECT GLAZE POLYGON WINDOW

			ESDG Design Pressure Rating (ASD, +/- psf), and Anchor Spacing (in.), 5.7mm Tempered - 5.7mm Tempered IG												
			Short Side Dimension (in.)												
Long Side Dimension (in.)	83	DP	50	50	50	50	50	50	50	50	50	50	50	50	50
		Spacing	16 1/8	15 1/8	14 3/8	13 5/8	12 7/8	12 1/4	11 3/4	11 1/4	10 3/4	10 1/4	9 7/8	9 1/2	9 1/4
	84	DP	50	50	50	50	50	50	50	50	50	50	50		
		Spacing	16 1/8	15 1/8	14 3/8	13 5/8	12 7/8	12 1/4	11 3/4	11 1/4	10 3/4	10 1/4	9 7/8	9 1/2	
	90	DP	50	50	50	50	50	50	50	50	50				
		Spacing	16 1/8	15 1/8	14 3/8	13 5/8	12 7/8	12 1/4	11 3/4	11 1/4	10 3/4	10 1/4			
	96	DP	50	50	50	50	50	50	50						
		Spacing	16 1/8	15 1/8	14 3/8	13 5/8	12 7/8	12 1/4	11 3/4	11 1/4					
	102	DP	50	50	50	50	50	50							
		Spacing	16 1/8	15 1/8	14 3/8	13 5/8	12 7/8	12 1/4	11 3/4						
	108	DP	50	50	50	50	50								
		Spacing	16 1/8	15 1/8	14 3/8	13 5/8	12 7/8	12 1/4							
	114	DP	50	50	50	50									
		Spacing	16 1/8	15 1/8	14 3/8	13 5/8	12 7/8								
	120	DP	50	50	50										
		Spacing	16 1/8	15 1/8	14 3/8	13 5/8									

- Notes: 1) any size is allowable to 50 psf, up to 47.84 sq. ft overall area, max. 120" long side
2) for short side dimensions between those shown in the chart, use the anchor spacing of the next larger size
3) sizes in shaded area not allowed (exceed 47.84 sq. ft)



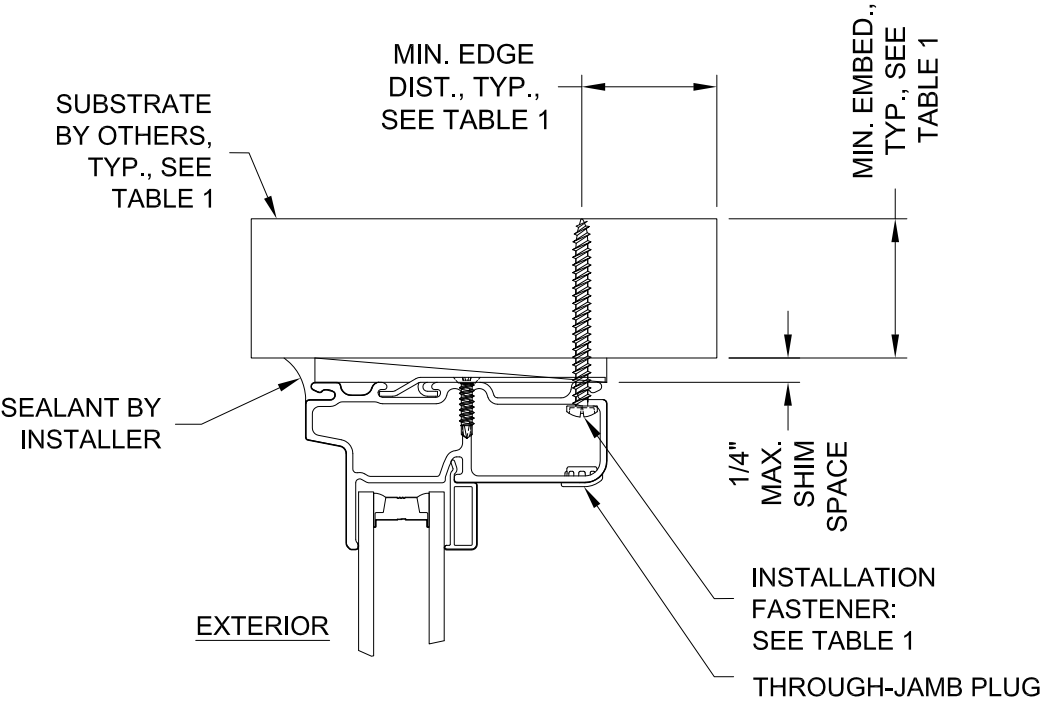
12/3/2025
LUCAS A. TURNER, P.E.
FL PE # 58201
TURNER ENGINEERING & CONSULTING, INC.
2428 OLD NATCHEZ TRC. TRL.
CAMDEN, TN 38320
PH. 941-380-1574

GENERAL NOTES
1. THIS DOCUMENT ADDRESSES ONLY PRODUCT ANCHORAGE TO ACHIEVE THE INDICATED DESIGN PRESSURES AT THE INDICATED SIZES, IN THE CONFIGURATION SHOWN IN THE ELEVATIONS. INSTALL PRODUCTS WITH MAXIMUM SHIM GAP, MINIMUM EDGE DISTANCE AND EMBEDMENT, AND WITH FASTENER TYPE AS SHOWN IN THE DETAILS. FOR FULL PRODUCT CONSTRUCTION DETAILS SEE ATI/INTERTEK TEST REPORT 29545.01-301-12-R1. FOR FULL PRODUCT INSTALLATION INSTRUCTIONS SEE WWW.MARVIN.COM. THIS DOCUMENT PROVIDES ANCHORAGE AND SIZES IN ALTERNATIVE CONFIGURATIONS IN ACCORDANCE WITH FBC SECT. 1709.5.1 exc. 3.ii.
2. THIS PRODUCT AS SHOWN AND GLAZED IN THIS DRAWING, IS NON-IMPACT RESISTANT AND REQUIRES THE USE OF IMPACT PROTECTIVE DEVICES (SHUTTERS) IN WINDBORNE DEBRIS REGIONS. THIS PRODUCT HAS BEEN TESTED TO AAMA/WDMA/CSA101/I.S.2/A440, AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CURRENT EDITION, FOR USE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE.
3. THE DESIGN PRESSURE RATINGS IN THIS DRAWING ARE AS LIMITED BY ASTM E-1300 COMPLIANT GLASS CALCULATIONS, TESTED WATER, STRUCTURAL, AND CYCLIC PRESSURES, AND FBC 1709.5.1 AND WDMA I.S. 11 COMPLIANT ANALYSIS.
4. THE 4/3 ALLOWABLE STRESS INCREASE FACTOR (SHORT-TERM INCREASE FACTOR) HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM. THE 1.6 Cd FACTOR WAS USED IN THE ANALYSIS OF ANCHORAGE INTO WOOD SUBSTRATE.
5. THE OPENING SUBSTRATE MATERIALS (FRAMING, MASONRY, BUCKS) AND ATTACHMENT OF BUCKS TO THE SUBSTRATE ARE BY OTHERS AND SHALL BE VERIFIED BY THE ARCHITECT OR ENGINEER OF RECORD OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ). BUCKING, OPENINGS, & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED BY OTHERS IN ACCORDANCE WITH THE FBC TO TRANSFER SUPERIMPOSED LOADS TO THE STRUCTURE.
6. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE COATED OR OTHERWISE PROTECTED PER FBC CHAPTER 20 TO PREVENT GALVANIC REACTIONS. WOOD BUCKS, IF USED, SHALL BE PRESSURE TREATED, WITH EITHER A TREATMENT OR COATING COMPATIBLE WITH THIS PRODUCT. ALL ANCHORS USED SHALL BE OF A MATERIAL OR HAVE A COATING COMPATIBLE WITH THE PRESSURE TREATED WOOD BUCKS AND ALL OTHER WINDOW MATERIALS.
7. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, OR AS APPROVED, SIGNED, AND SEALED BY A FLORIDA-REGISTERED PROFESSIONAL ENGINEER ON A SITE-SPECIFIC BASIS.
8. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT SHALL BE THE RESPONSIBILITY OF OTHERS AND ARE NOT ADDRESSED BY THIS DOCUMENT.

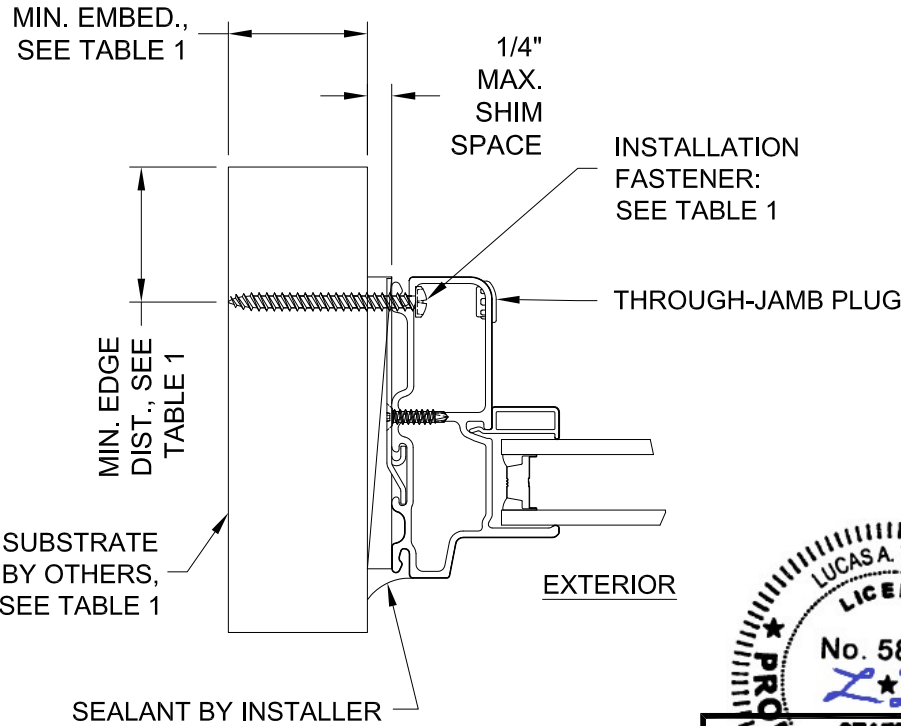
TYPICAL GLAZING DETAIL

REVISION			
O	ORIGINAL RELEASE	12/1/25	
MARVIN 		WARROAD, MN, USA (218) 386-4021	
PRODUCT CATEGORY:		ESSENTIAL	
UNIT TYPE:		DIRECT GLAZE POLYGON	
SHEET DESCRIPTION:		DESIGN PRESSURES, ELEVATION, GLAZING DETAIL	
SIZE:	CLASS:	DWG NO:	ESDG-FPA
B	ANCHOR		
SCALE:	DWG BY:	DATE:	SHEET:
NTS	LAT	12/1/2025	1 of 2

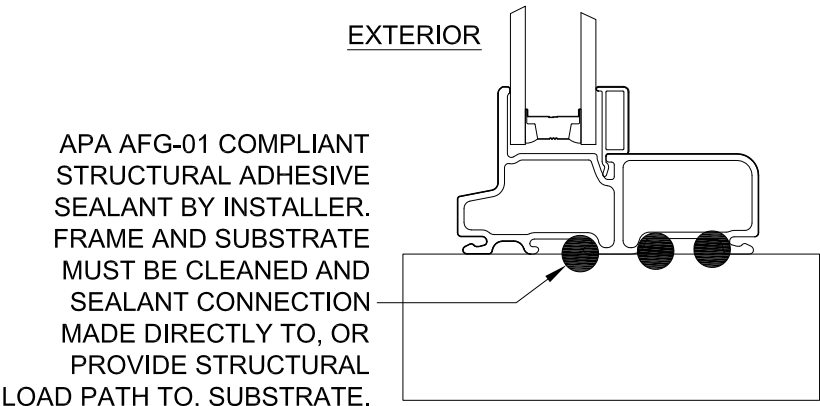
ESSENTIAL DIRECT GLAZE POLYGON WINDOW



TYPICAL HEAD VERTICAL SECTION

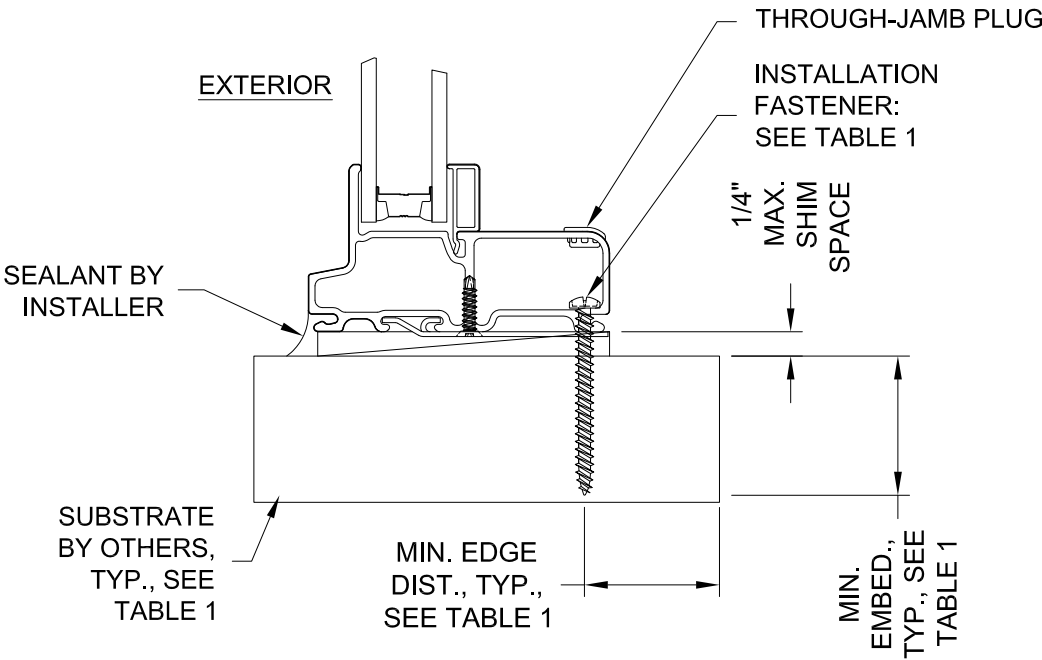


TYPICAL JAMB HORIZONTAL SECTION



TYPICAL SILL VERTICAL SECTION OPTION 1

STRUCTURAL ADHESIVE SEALANT ONLY



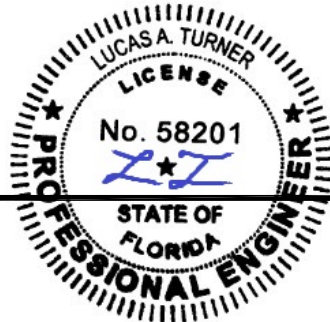
TYPICAL SILL VERTICAL SECTION OPTION 2

INSTALLATION FASTENER ANCHORAGE

TABLE 1: FRAME INSTALLATION ANCHOR REQUIREMENTS TABLE

SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED.	MIN. EDGE DIST.
SPRUCE-PINE-FIR (G=0.42 MIN)	#10 WOOD SCREW	1-1/2"	1"
CONCRETE (3.05 KSI MIN)	3/16" DEWALT ULTRACON+	1-3/4"	1"
HOLLOW OR GROUT-FILLED CMU (ASTM C 90)	3/16" DEWALT ULTRACON+	1-1/4"	2-1/2"
16 GAUGE (0.060") MIN. STEEL STUD, 33KSI YIELD MIN., OR 1/8" ALUM. 6063-T5 MIN.	#10-16 HILTI KWIK-FLEX OR ITW TEKS SELF-DRILLING SCREW	3 THREADS BEYOND METAL WALL	1/2"

- ANCHOR NOTES:
1. INSTALL ONE ANCHOR AT EACH LOCATION SHOWN IN THE ELEVATION, SHT 1.
 2. INSTALL SHIMS AT EACH ANCHOR LOCATION WHERE A GAP OF 1/16" OR GREATER EXISTS BETWEEN PRODUCT FRAME AND SUBSTRATE.
 3. SHIMS SHALL BE LOAD-BEARING (PLASTIC OR METALLIC) AND CAPABLE OF TRANSFERRING LOADS TO SUBSTRATE.
 4. SPECIFIED ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL FINISH OR STUCCO.
 5. ENSURE 3-3/8" MIN. SPACING BETWEEN ANY TWO INSTALLATION FASTENERS



12/3/2025
LUCAS A. TURNER, P.E.
FL PE # 58201
TURNER ENGINEERING & CONSULTING, INC.
2428 OLD NATCHEZ TRC. TRL.
CAMDEN, TN 38320
PH. 941-380-1574

REVISION			
O	ORIGINAL RELEASE		12/1/25
MARVIN		WARROAD, MN, USA (218) 386-4021	
PRODUCT CATEGORY: ESSENTIAL			
UNIT TYPE: DIRECT GLAZE POLYGON			
SHEET DESCRIPTION: THROUGH-FRAME INSTALLATION			
SIZE: B	CLASS: ANCHOR	DWG NO: ESDG-FPA	
SCALE: NTS	DWG BY: LAT	DATE: 12/1/2025	SHEET: 2 of 2