SIMONTON WINDOWS - *07-09 / 07-10 / 07-20 PICTURE & GEOMETRIC WINDOW w/SAFEPOINT IMPACT - MISSILE C*

NOTES:

1. This installation has been evaluated for use in locations adhering to the Florida Building Codes and where pressure requirements as determined by ASCE 7 Minimum Design Loads for Buildings and Other Structures do not exceed the design pressure ratings herein, for use outside the H.V.H.Z.
2. This product is Missile Level C, Wind Zone 2 impact resistant. When used in window zone 2 or below areas, this product DOES NOT REQUIRE the use of approved impact protections devices (shutters).
3. All interior and exterior perimeter surfaces of the window must be caulked.
4. Anchor type, size, spacing, and embedment shall be as specified in these drawings. Use appropriate anchorage from table 1 according to substrate type. a minimum center-to-center spacing of 3" shall be maintained between all installation fasteners in any direction.
5. Anchor embedment to substrate shall be beyond wall dressing or stucco. Wood bucks with concrete/CMU are optional; if used, for wood bucks less than 1-1/2" thick, installation anchor embedment shall be beyond wood bucks and into concrete/CMU. For wood bucks 1-1/2" thick or greater, installation anchor embedment shall be into wood bucks.
6. Wood, metal, or masonry openings, bucks, and buck fasteners, by others, shall be properly designed and installed by others to transfer superimposed loads to the structure. Adequacy of the structure to received these loads shall be verified by the contractor or Authority Having Jurisdiction (AHJ).
7. It is the responsibility of the architect or engineer of record or as approved by the AHJ to select Simonton products to meet all applicable local laws, building codes, ordinances, or other safety requirements for each installation.
8. Max. shim stack is 1/4", and shims should be used where gaps of greater than 1/16" existing between the opening and frame in the following locations: for through-frame at each installation anchor, and for fin at the jambs max. 6" from corners and at mid-span. Shims shall be load-bearing and capable of transferring loads to the substrate.
9. Sealing and flashing by others should be applied using the ASTM E 2112 methodology appropriate for the opening into which the window is being installed. Overall water penetration resistance of the installed product is the responsibility of others.
10. Glazing shall comply with ASTM E 1300.
11. A wind load duration factor Cd = 1.6 was used for the analysis of wood screws only.
12. All fasteners penetrating into pressure treated wood shall be coated or constructed of material capable of preventing corrosion due to reaction with pressure treatment chemicals. Any dissimilar materials that come into contact shall be protected to prevent reactions in accordance with code requirements.
13. Windows shall be constructed as specified in test reports T261-10 by Farabaugh Engineering & Testing, inc. and 110-24294-1 by National Certified Testing Laboratories.
14. Designation "X" is for Operable Panel and "O" is for Fixed Panel.
15. Use a backer rod on all joints >3/4". Finished caulk joint should be a minimum of 3/8".

DESIGN PRESSURE TABLE

PRODUCT MODEL	OVERALL SIZE		PERFORMANCE RATING	DESIGN PRESSURE	INSTALLATION METHOD	MISSILE IMPACT RATING
	WIDTH	HEIGHT				
07-09 | 07-10 | 07-20	75"	63"	R-PG40	+40/-40 PSF	NAIL FIN	MISSILE C WIND ZONE 2
07-09 | 07-10 | 07-20	75"	63"	R-PG40	+40/-40 PSF	THROUGH FRAME	

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Lucas Turner,
PE 58201
2024.09.17
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TABLE 1: INSTALLATION FASTENERS TABLE

ID	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED.	MIN. EDGE DISTANCE
	FIN INSTALLATION			
A	2X MIN. SOUTHERN PINE WOOD (G=0.55)	#8 GRADE 5 WOOD SCREW	1-1/2"	3/8"
B	16 GAUGE (0.060"), STEEL 36 KSI MIN. OR 1/8" ALUM. 6063-T5 MIN.	#10 GRADE 5 SELF-TAPPING/DRILLING SCREW	FULL, PLUS 3 THREADS MIN.	3/8"
	FRAME INSTALLATION			
C	CONCRETE (2 KSI MIN.)	3/16" ITW TAPCON W/ADVANCED THREADFORM TECHNOLOGY	1-1/2"	1-1/8"
D	HOLLOW OR GROUT-FILLED CMU (ASTM C-90)	3/16" ITW TAPCON W/ADVANCED THREADFORM TECHNOLOGY	1"	2"
E	2X MIN. SOUTHERN PINE WOOD (G=0.55)	3/16" ITW TAPCON W/ADVANCED THREADFORM TECHNOLOGY	1-3/8"	7/8"
F	2X MIN. SOUTHERN PINE WOOD (G=0.55)	3/16" ELCO ULTRACON OR DEWALT ULTRACON+	1-3/4"	1-1/8"
G	CONCRETE (3.05 KSI MIN.)	3/16" ELCO ULTRACON OR DEWALT ULTRACON+	1-3/4"	1"
H	HOLLOW OR GROUT-FILLED CMU (ASTM C-90)	3/16" ELCO ULTRACON OR DEWALT ULTRACON+	1-1/4"	2-1/2"
I	2X MIN. SOUTHERN PINE WOOD (G=0.55)	#10 GRADE 5 WOOD SCREW	1-3/8"	7/8"
J	16 GAUGE (0.060"), STEEL 36 KSI MIN. OR 1/8" ALUM. 6063-T5 MIN.	#10 GRADE 5 SELF-TAPPING/DRILLING SCREW	FULL, PLUS 3 THREADS MIN.	1/2"

*NOTE: ALL SCREWS SHALL HAVE MOD. TRUSS, PAN OR HEX WASHER HEAD, 0.42" MIN. HEAD OR WASHER DIAMETER.

SIMONTON WINDOWS & DOORS
Part of the Cornerstone Building Brands Family
1 COCHRANE AVENUE
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PH: 800-542-9118

TITLE: 07-09/07-10/07-20 FIXED W/SAFEPOINT NOTES, DESIGN PRESSURE & INSTALLATION FASTENER TABLES

NO.	REVISION DESCRIPTION	BY	DATE
A	UPDATED TO CURRENT FBC.	LMH	09/16/24

DATE: 07.23.21 | DWN BY: LMH | CHK BY: . | SCALE: NTS

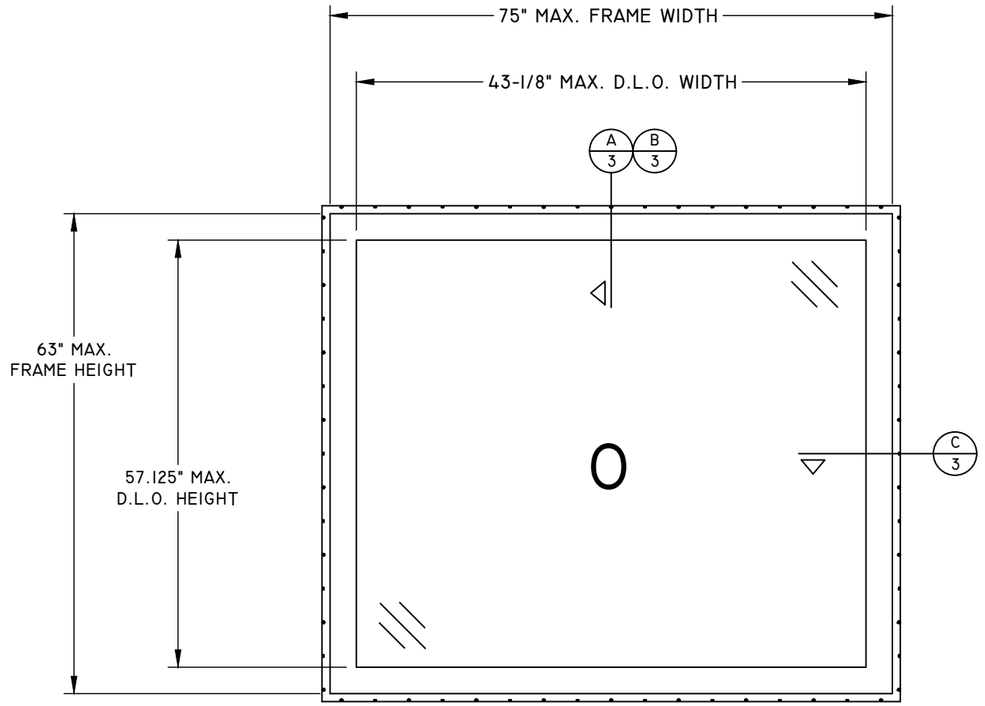
LUCAS A. TURNER LICENSE No. 58201 STATE OF FLORIDA PROFESSIONAL ENGINEER

9/16/2024
LUCAS A. TURNER, P.E.
FL PE # 58201
TURNER ENGINEERING & CONSULTING, INC.
(COA # 29779)
2428 OLD NATCHEZ TRACE TRAIL, CAMDEN, TN 38320
PH. 941-380-1574

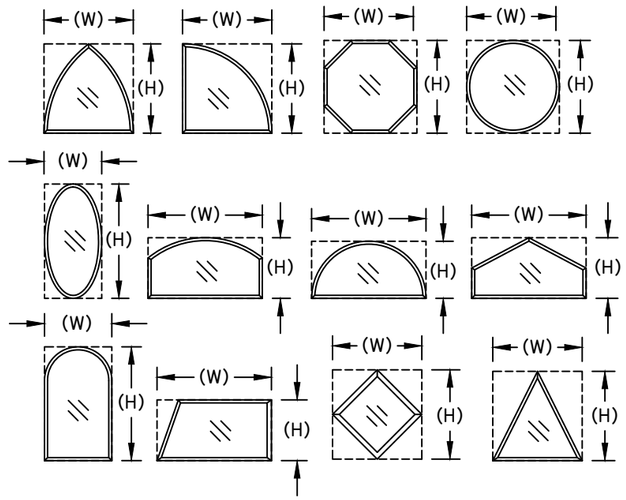
FL#: 39616

DWG #: IN0594

SHEET: 1 OF 4

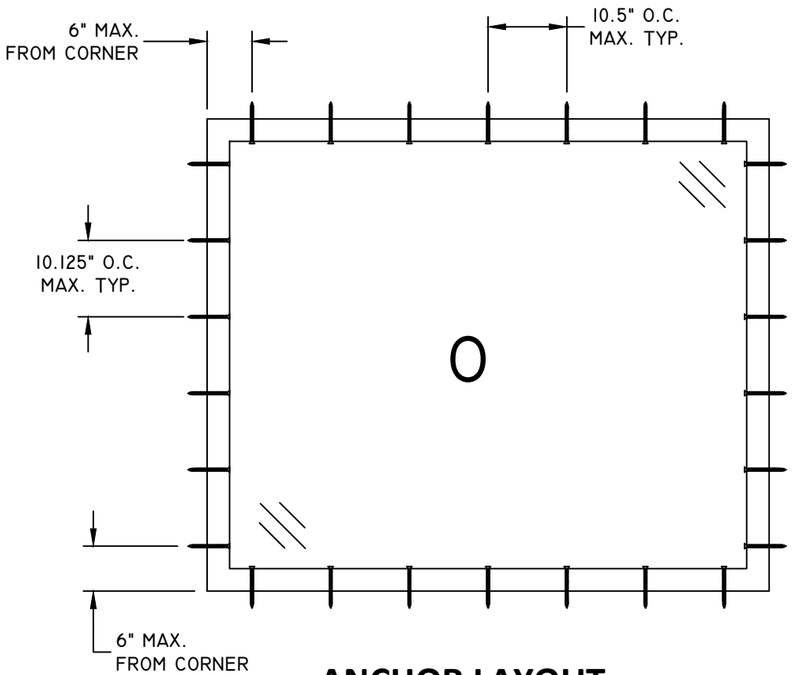


ELEVATION VIEW

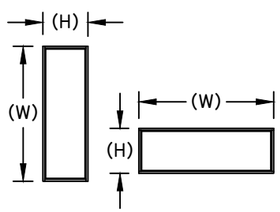


ALL SHAPED UNITS SHALL FIT WITHIN THE RECTANGULAR AREAS AS SHOWN IN DESIGN PRESSURE TABLE ON SHEET 1.

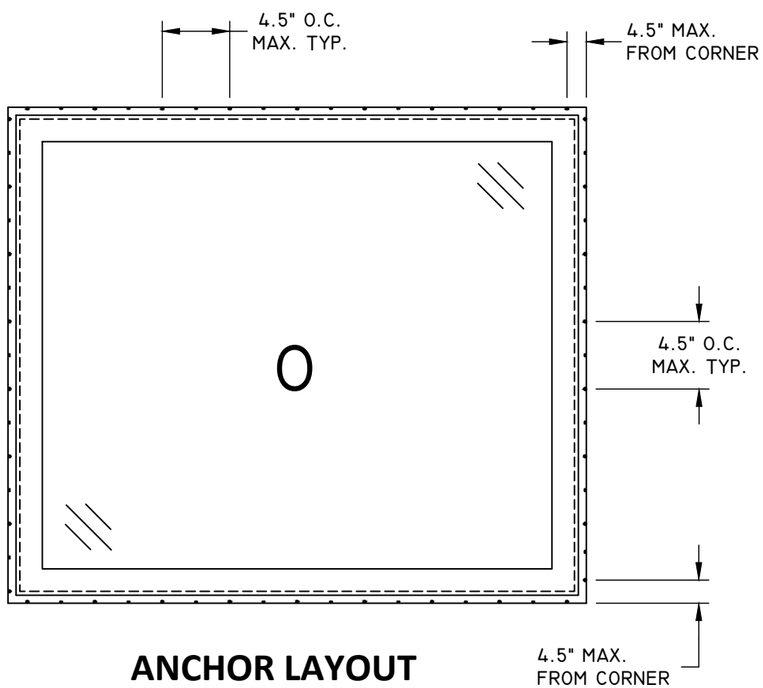
SINGLE EYEBROW & PALLADIUM SHAPES SHALL FIT WITHIN THE RECTANGULAR AREA UP TO 75" X 63" AS SHOWN IN THE DESIGN PRESSURE TABLE ON SHEET 1



ANCHOR LAYOUT
FINLESS



NOTE:
WINDOW WIDTH (W) AND HEIGHT (H) ARE INTERCHANGEABLE FOR ALL SIZES SHOWN HEREIN NOT TO EXCEED MAXIMUM QUALIFIED SQUARE FOOT AREA.



ANCHOR LAYOUT
FIN

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A	UPDATED TO CURRENT FBC.	LMH	09/16/24

TITLE: 07-09/07-10/07-20 FIXED W/SAFEPOINT ELEVATIONS AND ANCHOR LAYOUTS

DATE: 07.23.21 | DWN BY: LMH | CHK BY: . | SCALE: NTS

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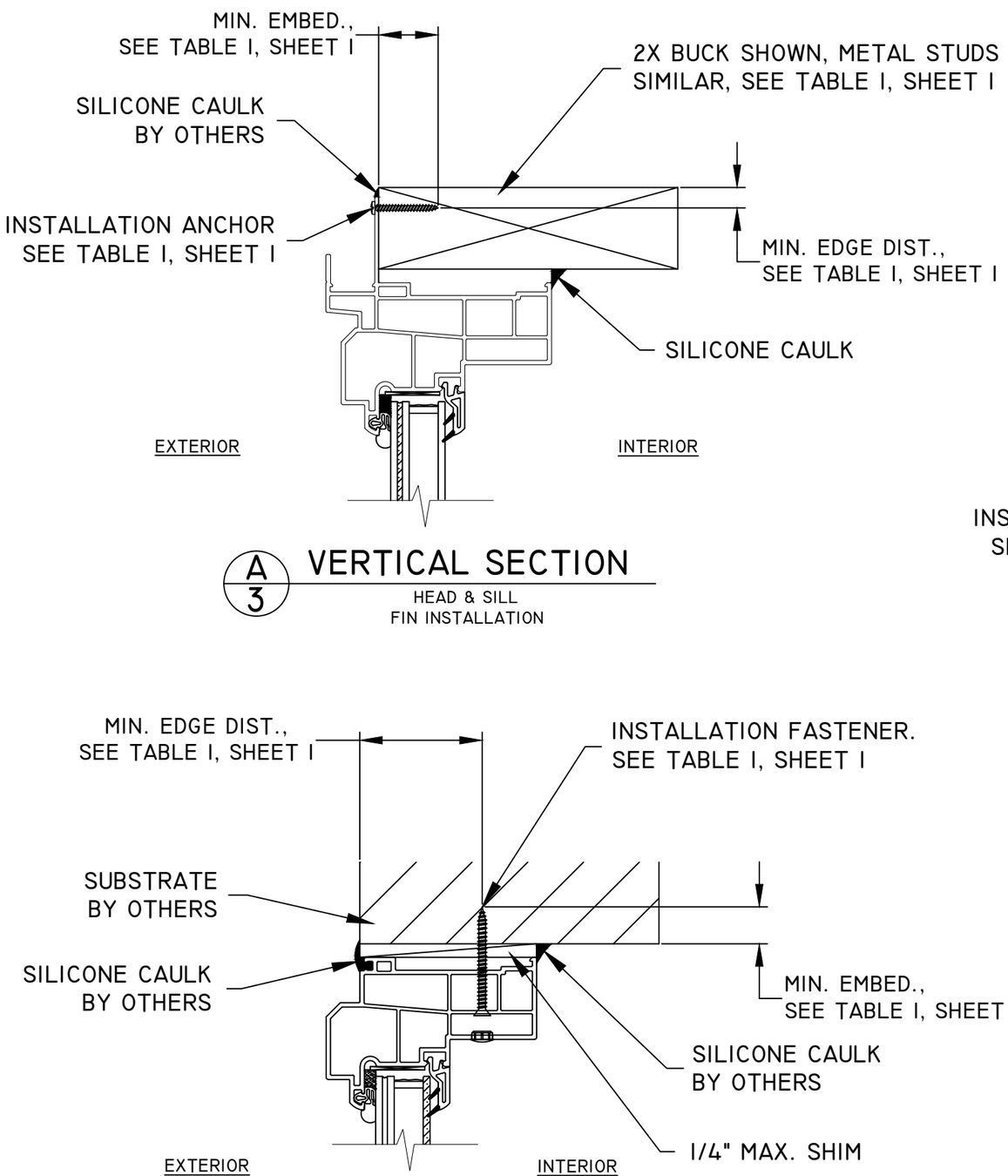
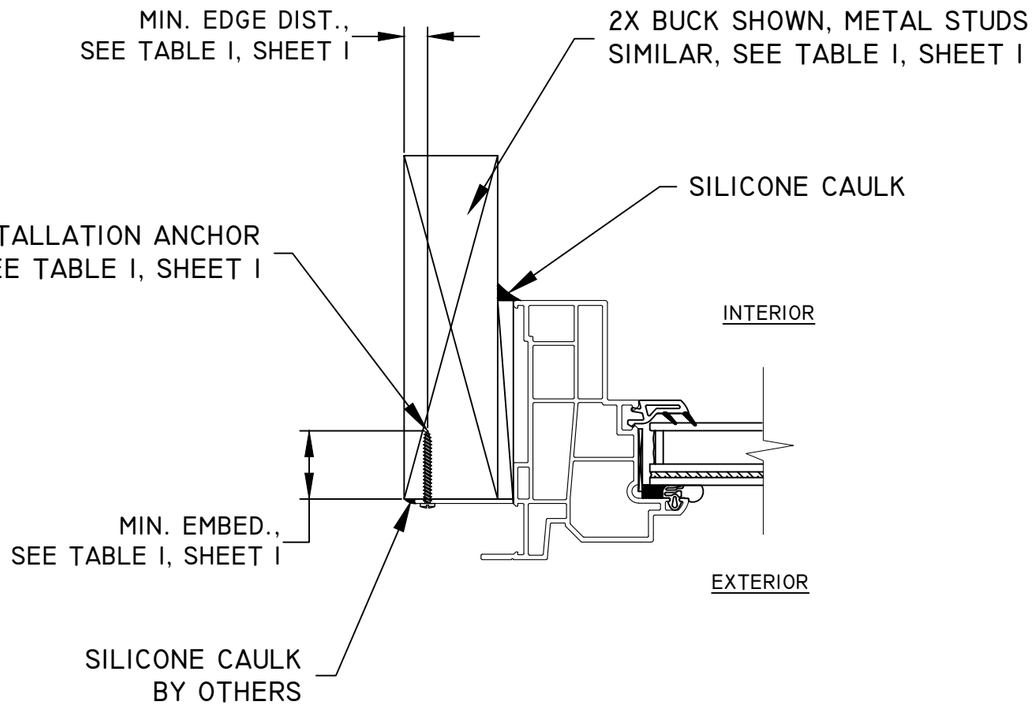


A/3 VERTICAL SECTION

HEAD & SILL
FIN INSTALLATION



C/3 HORIZONTAL SECTION

JAMBS
FIN INSTALLATION

B/3 VERTICAL SECTION

HEAD, SILL & JAMBS
FINLESS INSTALLATION

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TITLE: 07-09/07-10/07-20 FIXED W/SAFEPOINT VERTICAL & HORIZONTAL SECTIONS

DATE:	DWN BY:	CHK BY:	SCALE:
07.23.21	LMH	.	NTS

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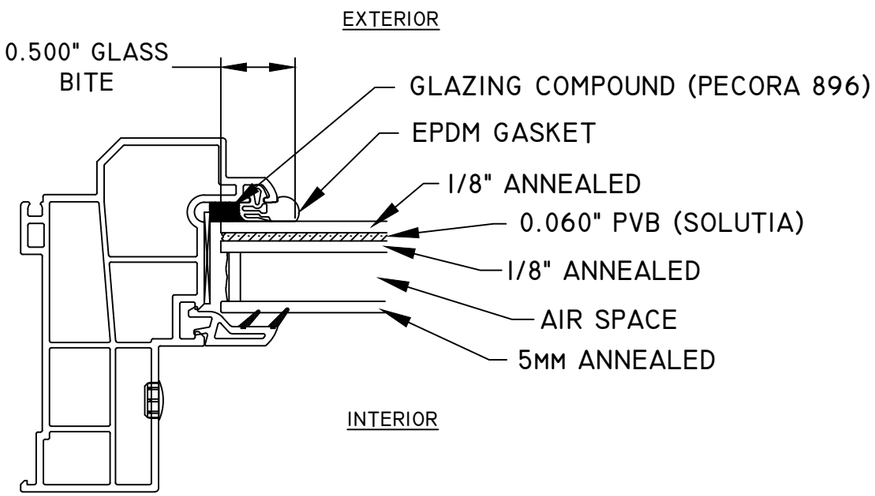
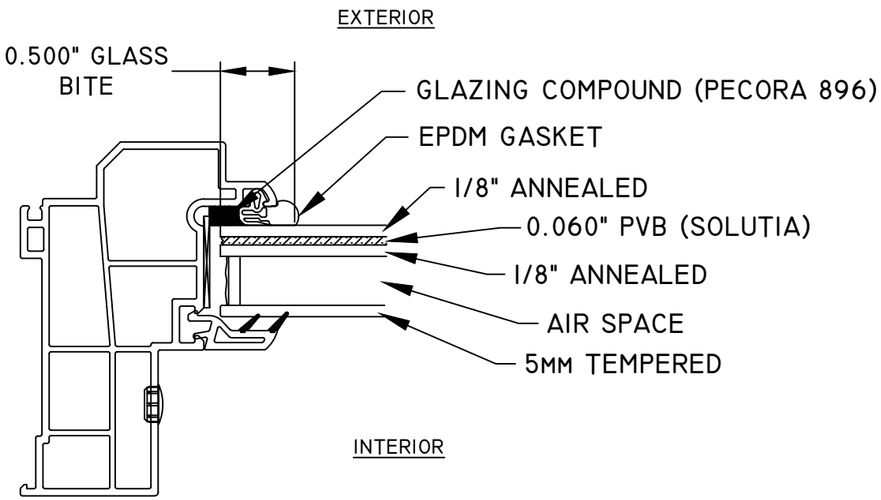


1" INSULATED ANNEALED/ANNEALED IMPACT RESISTANT GLASS GLAZING DETAIL (.060" PVB) FIN AND FINLESS FRAME TYPES



1" INSULATED TEMPERED/ANNEALED IMPACT RESISTANT GLASS GLAZING DETAIL (0.060" PVB) FIN AND FINLESS FRAME TYPES

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SHEET: 4 OF 4