

PLY GEM WINDOWS 4712/4812 SINGLE-HUNG (NON-IMPACT)

NOTES:

- THIS INSTALLATION HAS BEEN EVALUATED FOR USE IN LOCATIONS ADHERING TO THE FLORIDA BUILDING CODE OUTSIDE THE HVHZ, 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.
- WHEN USED IN AREAS REQUIRING IMPACT PROTECTION, THIS PRODUCT REQUIRES THE USE OF APPROVED IMPACT PROTECTIVE DEVICES (SHUTTERS).
- ANCHOR TYPE, SIZE, SPACING, EMBEDMENT, AND EDGE DISTANCE SHALL BE AS SPECIFIED IN THESE DRAWINGS. USE APPROPRIATE ANCHORAGE FROM TABLE I ACCORDING TO SUBSTRATE TYPE. A MINIMUM CENTER-TO-CENTER SPACING OF 3" SHALL BE MAINTAINED BETWEEN ALL INSTALLATION FASTENERS IN ANY DIRECTION. IF PRODUCT IS INSTALLED WITHIN 3000 FEET OF A SALTWATER COASTLINE, THE ANCHORAGE MUST BE REVIEWED FOR COMPLIANCE WITH FBC SECTION 1711, SEE EVALUATION REPORT FOR THIS APPROVAL FOR DETAILS.
- ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR MASONRY OPENINGS WITH WOOD BUCKS LESS THAN 1-1/2" THICK, EMBEDMENT SHALL BE BEYOND WOOD BUCKS, IF USED, AND INTO MASONRY SUBSTRATE. WOOD BUCKS WITH MASONRY ARE OPTIONAL.
- 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).
- IT IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD OR AS APPROVED BY THE AHJ TO SELECT PLY GEM PRODUCTS TO MEET ALL APPLICABLE LOCAL LAWS, BUILDING CODES, ORDINANCES, OR OTHER SAFETY REQUIREMENTS FOR EACH INSTALLATION.
- SHIMS ARE REQUIRED WHERE GAPS OF GREATER THAN 1/16" EXIST BETWEEN OPENING AND FRAME. MAX. SHIM STACK IS 1/4". SHIMS SHALL BE LOAD-BEARING AND CAPABLE OF TRANSFERRING LOADS TO THE SUBSTRATE.
- SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT SHALL BE THE RESPONSIBILITY OF OTHERS USING ASTM E2112 AND IS NOT ADDRESSED BY THIS DOCUMENT.
- INSTALLED GLAZING SHALL COMPLY WITH ASTM E1300.
- ALL FASTENERS PENETRATING INTO PRESSURE TREATED WOOD SHALL BE 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.
- A WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR THE ANALYSIS OF WOOD SCREWS ONLY.
- PRODUCTS SHALL BE CONSTRUCTED AS SPECIFIED IN TEST REPORTS NATIONAL CERTIFIED TESTING LABORATORIES I10-I3259-I, I10-I3262-I, I10-I3264-I & I10-I3431-I.
- DESIGNATION "X" IS FOR OPERABLE PANEL AND "O" IS FOR FIXED PANEL.
- USE A BACKER ROD ON ALL JOINTS >3/4" DEEP AND/OR WIDER THAN 1/4". FINISHED CAULK JOINT SHOULD BE A MINIMUM OF 3/8" DEEP.

SIZE CHART					
PRODUCT	OVERALL SIZE		PRODUCT RATING	MAX. DESIGN PRESSURE	MISSILE IMPACT RATING
	WIDTH	HEIGHT			
4712FL	48"	83-15/16"	H-LC50	+50/-70 PSF	NON-IMPACT
	53"	72"	H-R50	+50/-60 PSF	
4712F	53"	72"	H-R50	+50/-60 PSF	
	48"	83-5/16"	H-LC50	+50/-60 PSF	
4812F	48"	84"	H-LC50	+50/-60 PSF	
	48"	96"	H-LC30	+30/-30 PSF	

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TABLE I: INSTALLATION FASTENERS TABLE

ID	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED.	MIN. EDGE DISTANCE
FIN INSTALLATION				
A	2X MIN. SOUTHERN PINE WOOD (G=0.55 MIN.)	8D COMMON NAIL (0.131" MIN.) OR 0.131" MIN. ROOFING NAIL	2-1/2"	3/8"
B	2X MIN. SPRUCE-PINE-FIR WOOD (G=0.42 MIN.)	#8 WOOD SCREW	1-5/8"	3/8"
C	16 GAUGE (0.060") STEEL 36 KSI MIN. YIELD OR 1/8" ALUM. 6063-T5 MIN.	#10-16 SELF-DRILLING SCREW (TEKS/DRIL-FLEX/KWIK-FLEX)	FULL, PLUS 3 THREADS MIN.	3/8"
FRAME INSTALLATION				
D	CONCRETE (2 KSI MIN.)	3/16" ITW TAPCON	1-1/2"	1-1/8"
E	HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	2"
F	2X MIN. SPRUCE-PINE-FUR WOOD (G=0.42 MIN.)	3/16" ITW TAPCON	1-3/8"	7/8"
G	2X MIN. SPRUCE-PINE-FUR WOOD (G=0.42 MIN.)	#10 WOOD SCREW	1-3/8"	7/8"
H	16 GAUGE (0.060") STEEL 36 KSI MIN. YIELD OR 1/8" ALUM. 6063-T5 MIN.	#10-16 SELF-DRILLING SCREW (TEKS/DRIL-FLEX/KWIK-FLEX)	FULL, PLUS 3 THREADS MIN.	1/2"

NOTE: ALL SCREWS AND TAPCONS SHALL HAVE MOD. TRUSS, PAN, OR HEX WASHER HEAD, 0.42" MIN. HEAD OR WASHER DIAMETER FOR FIN ANCHORS, 0.355" MIN. HEAD OR WASHER DIAMETER FOR FRAME ANCHORS. ALL NAILS SHALL HAVE FULL ROUND HEAD (OR USE CAPS/WASHERS), 0.42" MIN. HEAD OR WASHER DIAMETER.

TITLE: 4712 / 4812 SINGLE HUNG GENERAL AND INSTALLATION NOTES	DATE	11.13.20	03.08.23	10.30.24	08.19.26
	BY	LMH	LMH	LMH	LMH
	REVISION DESCRIPTION				
	NO.	D	E	F	G
DATE: 8.30.10	DWN BY: MSS	CHK BY:	SCALE: NTS		



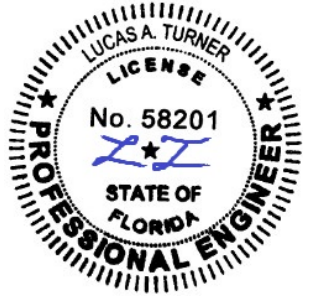
08/17/2026
LUCAS A. TURNER, P.E.
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2428 OLD NATCHEZ TRACE
TRAIL, CAMDEN, TN 38320
PH. 941-380-1574

FL#: 14039

DWG#: PGW029

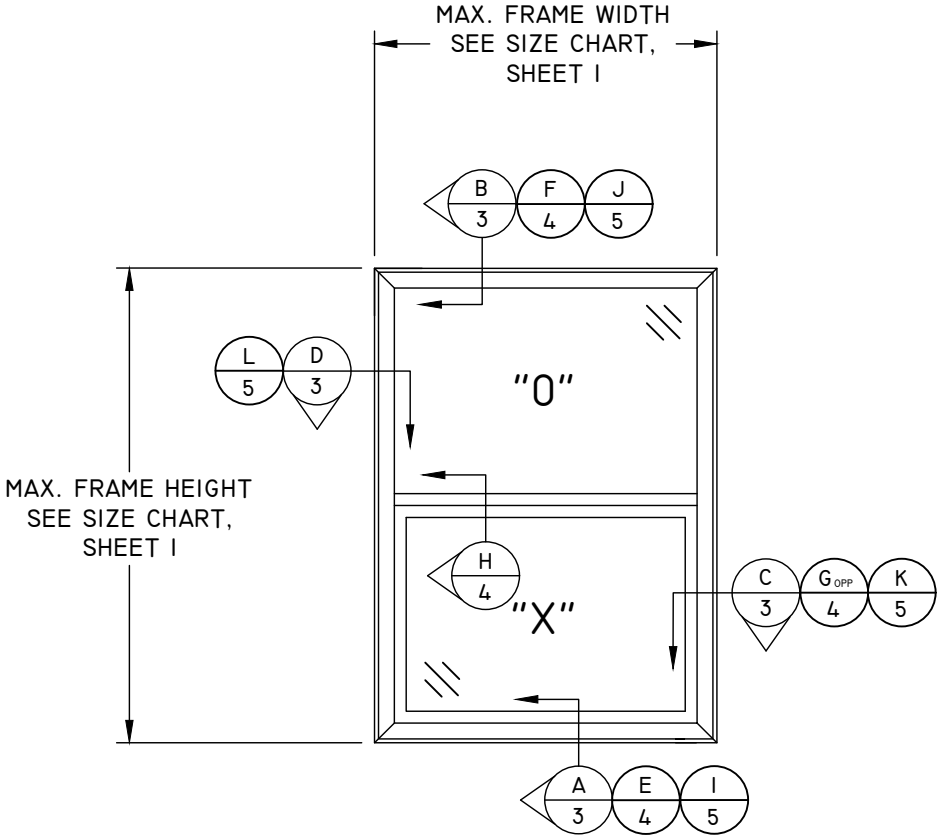
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TITLE: 4712 / 4812 SINGLE HUNG ELEVATIONS & ANCHOR LAYOUTS				
NO.		REVISION DESCRIPTION	BY	DATE
D		UPDATED FOR 7TH ED. (2020) FBC	LMH	11.13.20
E		UPDATE SHEET 2, NPD# 18-005.01	LMH	03.08.23
F		UPDATED TABLE 1: ID F & G	LMH	10.30.24
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CHK BY: .				
SCALE: NTS				

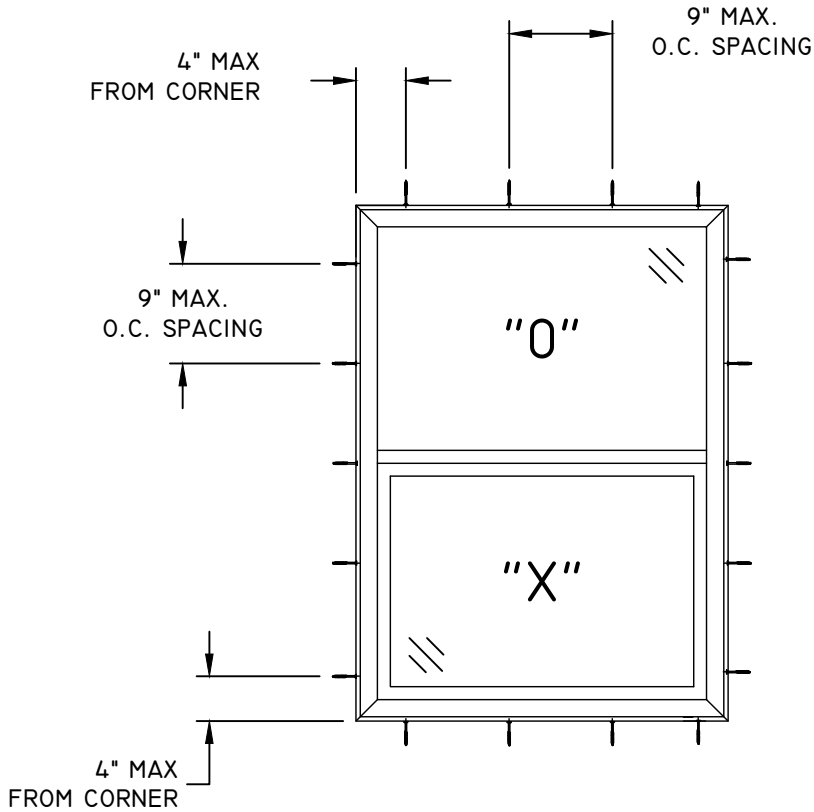


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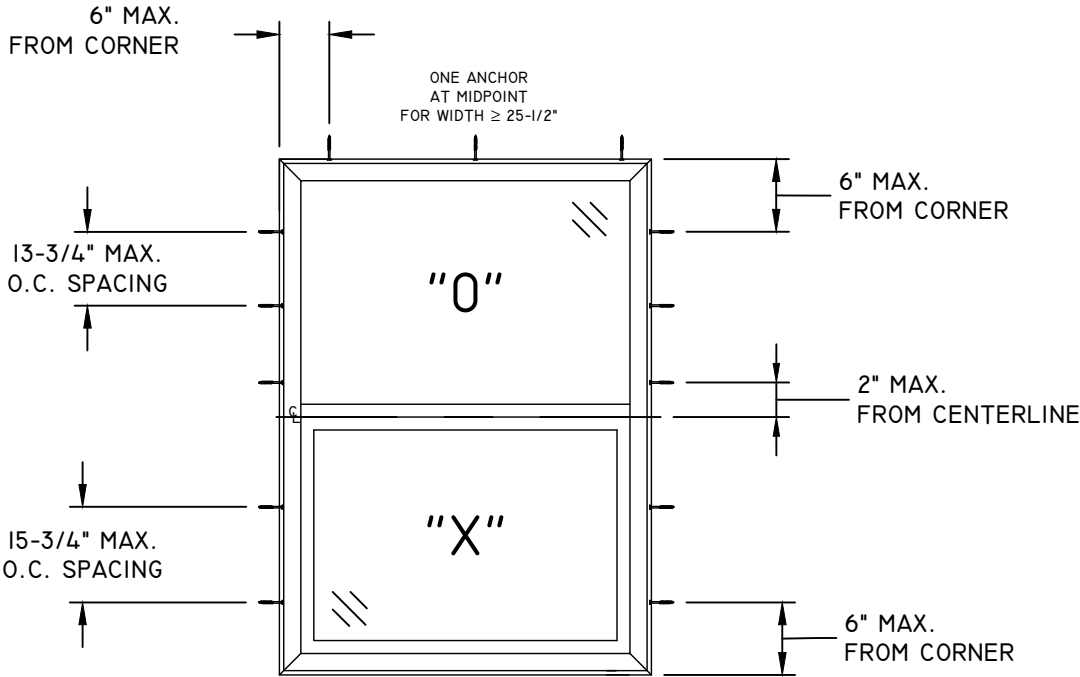
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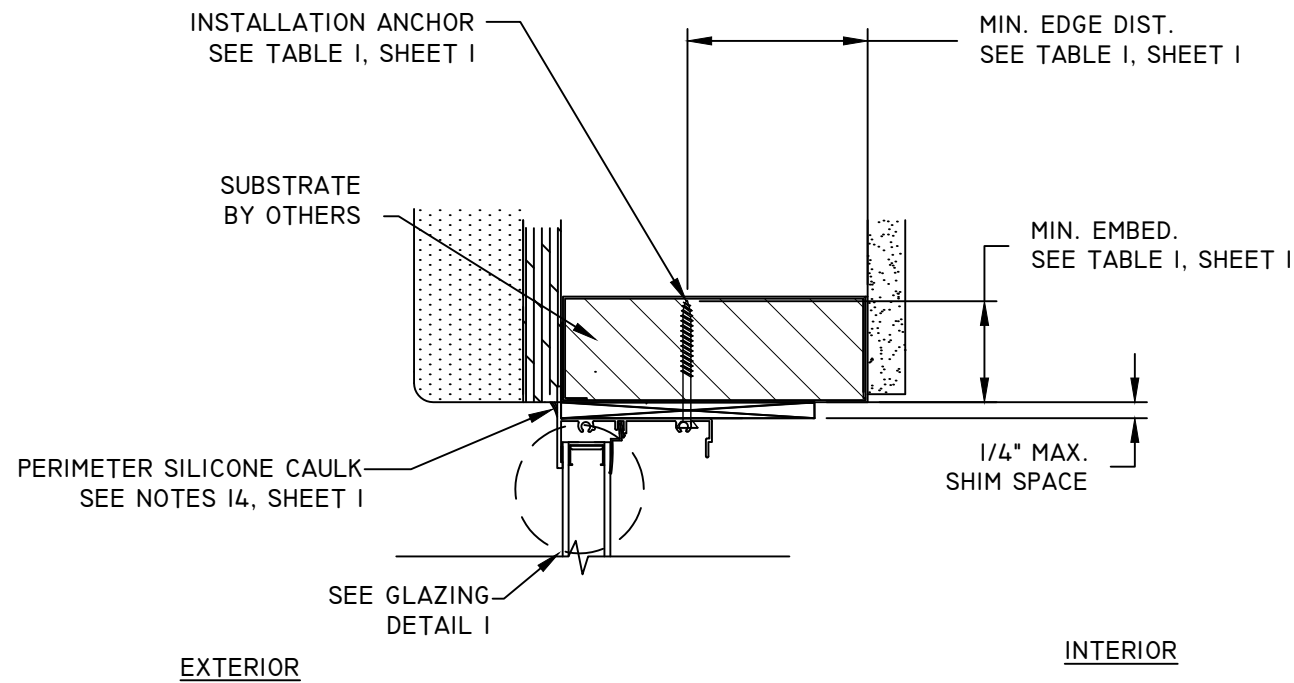
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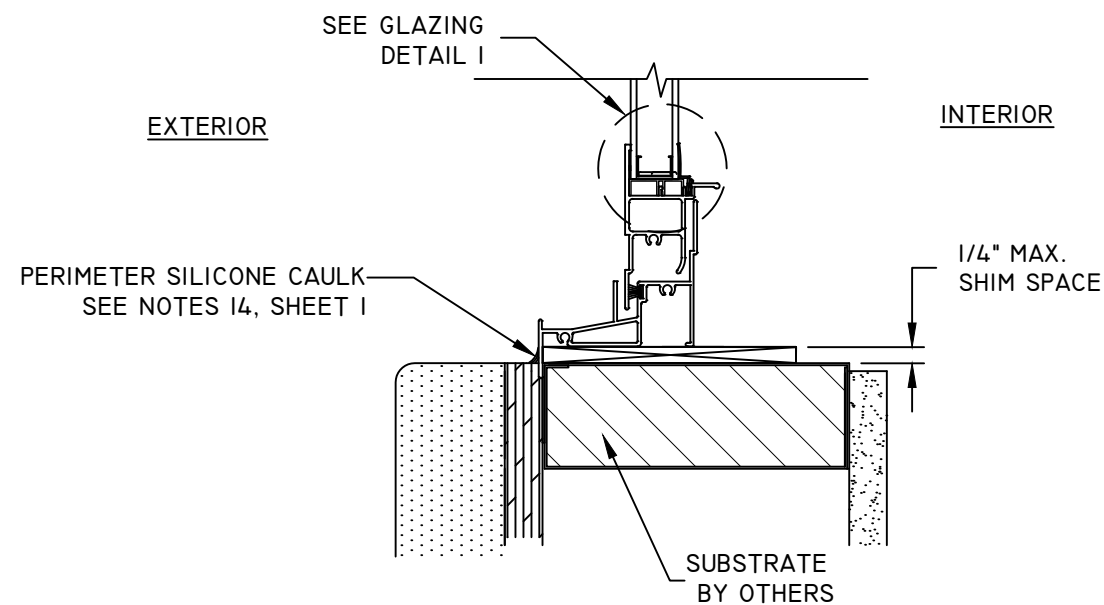
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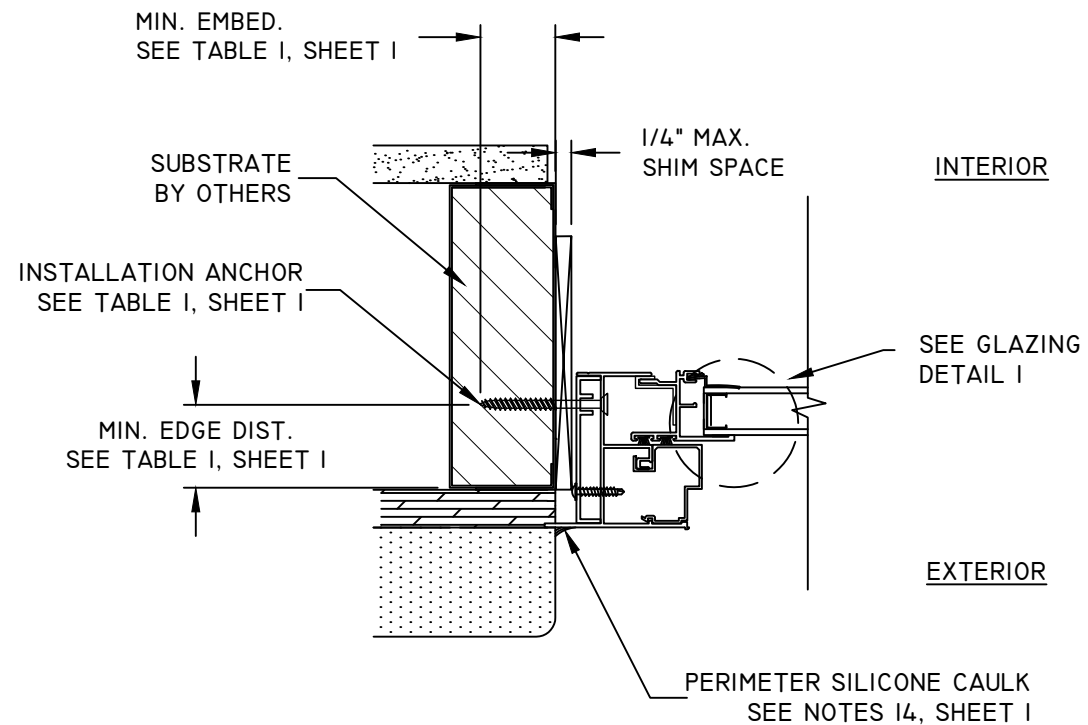
**FLANGE ANCHOR
LAYOUT**



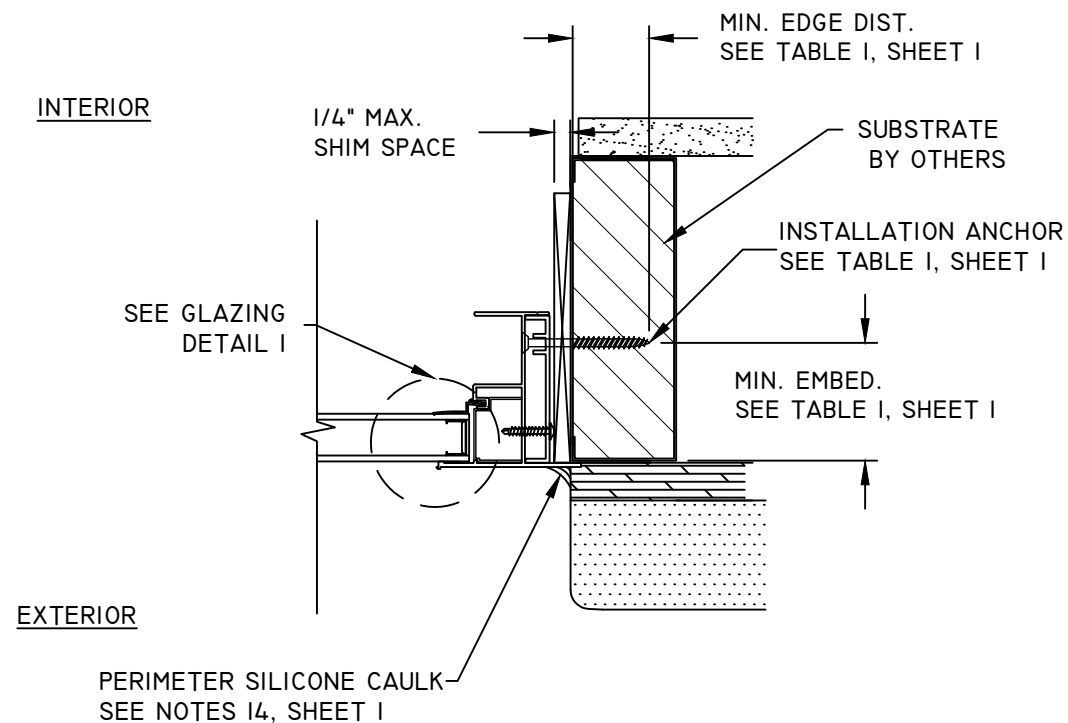
B
3 **VERTICAL SECTION**
HEAD
4712 FLANGE



A
3 **VERTICAL SECTION**
SILL
4712 FLANGE

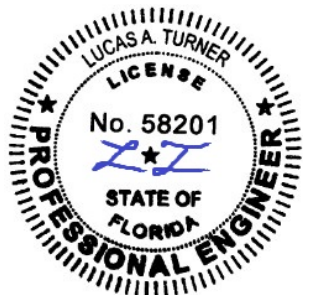


D
3 **HORIZONTAL SECTION**
JAMB
4712 FLANGE



C
3 **HORIZONTAL SECTION**
JAMB
4712 FLANGE

TITLE: 4712 / 4812 SINGLE HUNG VERTICAL SECTIONS & HORIZONTAL SECTIONS	DATE	BY	REVISION DESCRIPTION	NO.
	8.30.10	MSS	CHK BY:	SCALE: NTS
	D	LMH	11.13.20 UPDATED FOR 7TH ED. (2020) FBC	D
	E	LMH	03.08.23 UPDATE SHEET 2, NPD# 18-005.01	E
	F	LMH	10.30.24 UPDATED TABLE 1: ID F & G	F
	G	LMH	08.19.26 UPDATED TO CURRENT FBC	G

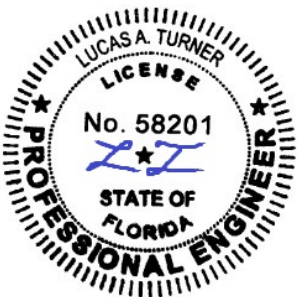


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DWG#: **PGW029**

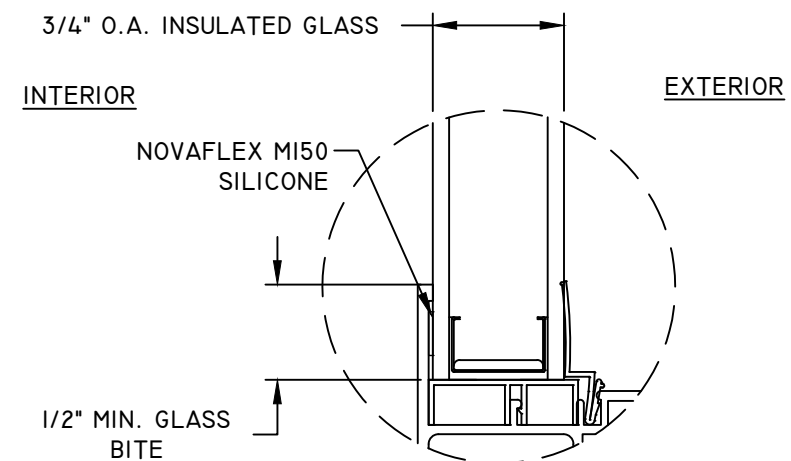
SHEET: **3 OF 5**



14039

PGW029

SHEET: 4 OF 5



NOTE:
GLASS THICKNESS AND TYPE SHALL
COMPLY WITH ASTM E 1300 GLASS
CHART REQUIREMENTS

