

# PLY GEM WINDOWS *PRO CLASSIC / 1500 SERIES VINYL SLIDING PATIO DOOR (IMPACT)*

**Ply Gem**  
RESIDENTIAL SOLUTIONS  
A Division of Commercial Building Brands  
433 N. MAIN ST.,  
PO BOX 559,  
ROCKY MOUNT, VA 24151  
PH: 540-484-6348  
FX: 540-484-6683

**NOTES:**

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE AND 2018 INTERNATIONAL RESIDENTIAL CODE.
2. THIS PRODUCT IS MISSILE LEVEL D, WIND ZONE 3 IMPACT RESISTANT. WHEN USED IN WIND ZONE 3 OR BELOW AREAS, THIS PRODUCT DOES NOT REQUIRE THE USE OF APPROVED IMPACT PROTECTIVE DEVICES (SHUTTERS).
3. 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.
4. 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.
5. 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).
6. 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.
7. 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.
8. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT SHALL BE THE RESPONSIBILITY OF OTHERS USING ASTM E 2112 AND IS NOT ADDRESSED BY THIS DOCUMENT.
9. INSTALLED GLAZING SHALL COMPLY WITH ASTM E 1300.
10. 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.
11. A WIND LOAD DURATION FACTOR  $C_d = 1.6$  WAS USED FOR THE ANALYSIS OF WOOD SCREWS ONLY.
12. PRODUCTS SHALL BE CONSTRUCTED AS SPECIFIED IN TEST REPORTS NATIONAL CERTIFIED TESTING LABORATORIES I10-21611-1, I10-21610-1 & I10-21567-1.
13. DESIGNATION "X" IS FOR OPERABLE PANEL AND "O" IS FOR FIXED PANEL.
14. 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				
OVERALL SIZE		PRODUCT RATING	MAX. DESIGN PRESSURE	MISSILE IMPACT RATING
WIDTH	HEIGHT			
71-1/2"	81-1/2"	LC-PG50	+50/-50 PSF	LARGE & SMALL MISSILE IMPACT

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	INSTALLATION & GENERAL NOTES
2	ELEVATIONS & ANCHOR LAYOUTS
3	VERTICAL/HORIZONTAL SECTIONS & GLAZING DETAIL

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)	10D COMMON NAIL	2-1/2"	7/8"
B	2X MIN. SOUTHERN PINE WOOD (G=0.55)	#8 WOOD SCREW	1-1/2"	3/8"
C	16 GAUGE (0.060") STEEL 36 KSI MIN. OR 1/8" ALUM. 6063-T5 MIN.	#10-16 SELF-DRILLING SCREW (TEKS/DRIL-FLEX/KWIK-FLEX)	FULL, PLUS 3 THREADS MIN.	1/2"
FRAME INSATLLATION (ONE LOC. AT CENTER OF HEAD, SEE DET. A/2)				
D	2X MIN. SOUTHERN PINE WOOD (G=0.55)	#8 WOOD SCREW	2"	5/8"
E	16 GAUGE (0.060") STEEL 36 KSI MIN. OR 1/8" ALUM. 6063-T5 MIN.	#10-16 SELF-DRILLING SCREW (TEKS/DRIL-FLEX/KWIK-FLEX)	FULL, PLUS 3 THREADS MIN.	1/2"

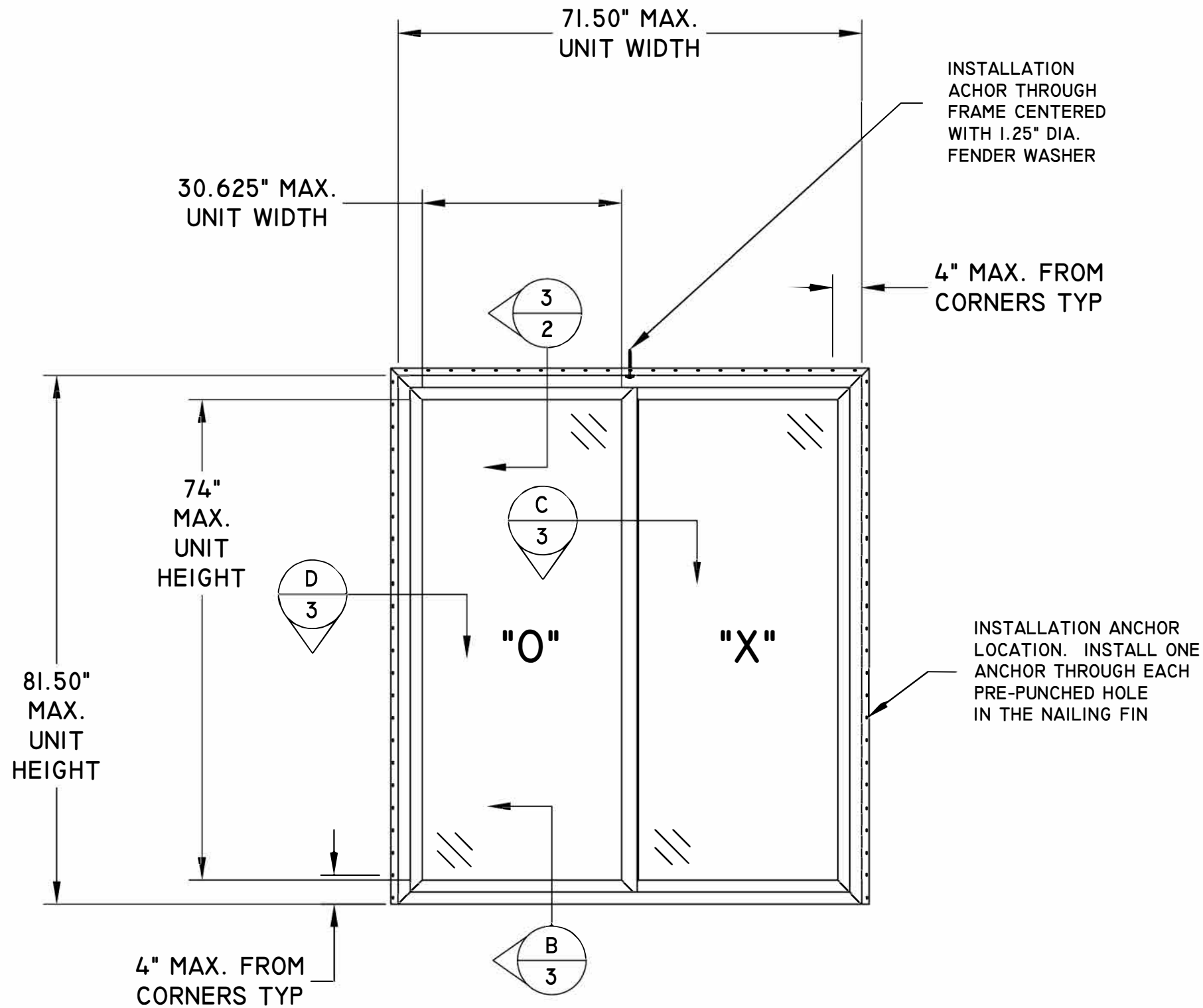
\*NOTE: ALL SCREWS SHALL HAVE MOD. TRUSS, PAN, OR HEX WASHER HEAD, 0.42" MIN. HEAD OR WASHER DIAMETER. ALL NAILS SHALL HAVE FULL ROUND HEAD (OR USE CAPS/WASHERS), 0.42" MIN. HEAD OR WASHER DIAMETER.

TITLE: PRO CLASSIC \ 1500 SERIES IMPACT VINYL PATIO DOOR INSTALLATION & GENERAL NOTES	DATE	BY	REVISION DESCRIPTION	NO.	A	B	SCALE:
	10.04.19	LMH					NTS



8/3/2021  
LUCAS A. TURNER, P.E.  
TX PE # 115094  
TURNER ENGINEERING & CONSULTING, INC.  
(TBPE REG. # F-18075)  
2428 OLD NATCHEZ TRACE TRAIL, CAMDEN, TN 38320  
PH. 941-380-1574

TDI#:  
DWG #:  
**PGW318TX**  
SHEET:  
**1-TX OF 3**



# TYPICAL ELEVATION WITH FASTENER SPACING

FIN INSTALLATION

TITLE: PRO CLASSIC \ 1500 SERIES IMPACT VINYL PATIO DOOR ELEVATION & ANCHOR DETAILS		NO.	REVISION DESCRIPTION	BY	DATE
	A		CODE UPDATE	LMH	07.31.20
	B		ECO 18-095	LMH	12.16.20

DATE:	10.04.19	DWN BY:	LMH	CHK BY:		SCALE:	NTS
-------	----------	---------	-----	---------	--	--------	-----

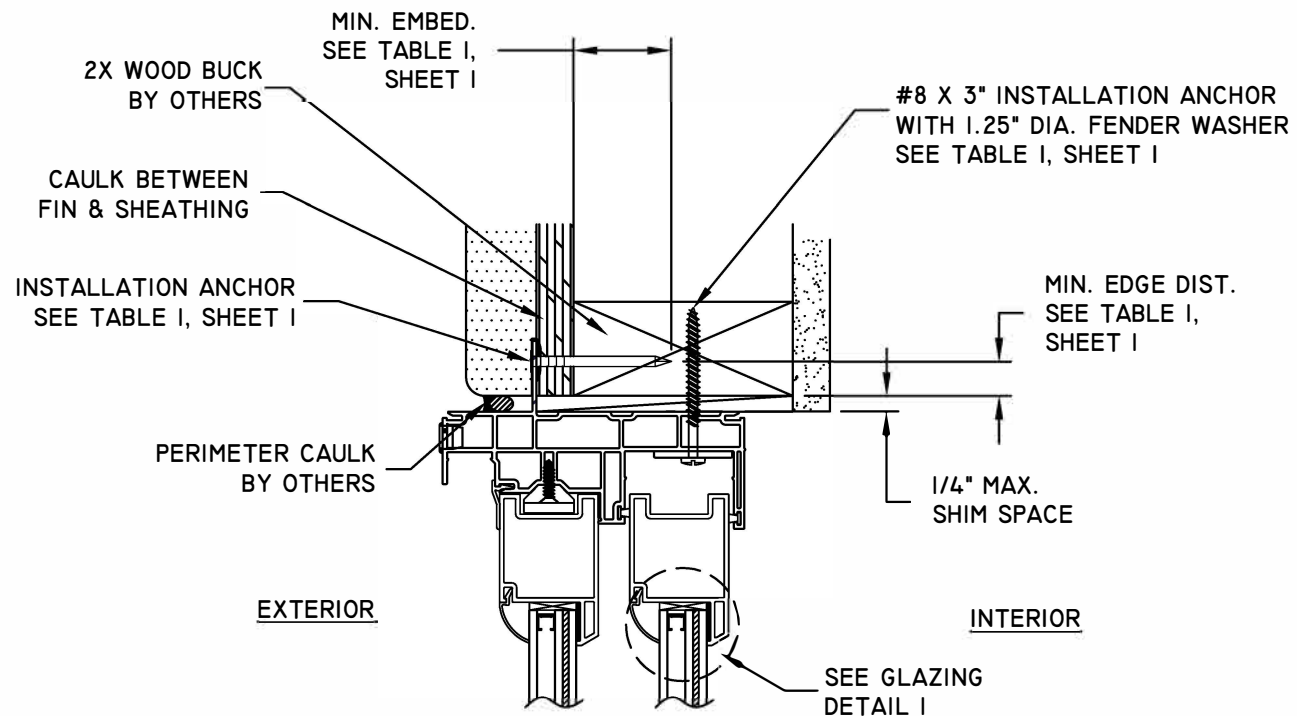


8/3/2021  
LUCAS A. TURNER, P.E.  
TX PE # 115094  
TURNER ENGINEERING & CONSULTING, INC.  
(TBPE REG. # F-18075)  
2428 OLD NATCHEZ TRACE TRAIL, CAMDEN, TN 38320  
PH. 941-380-1574

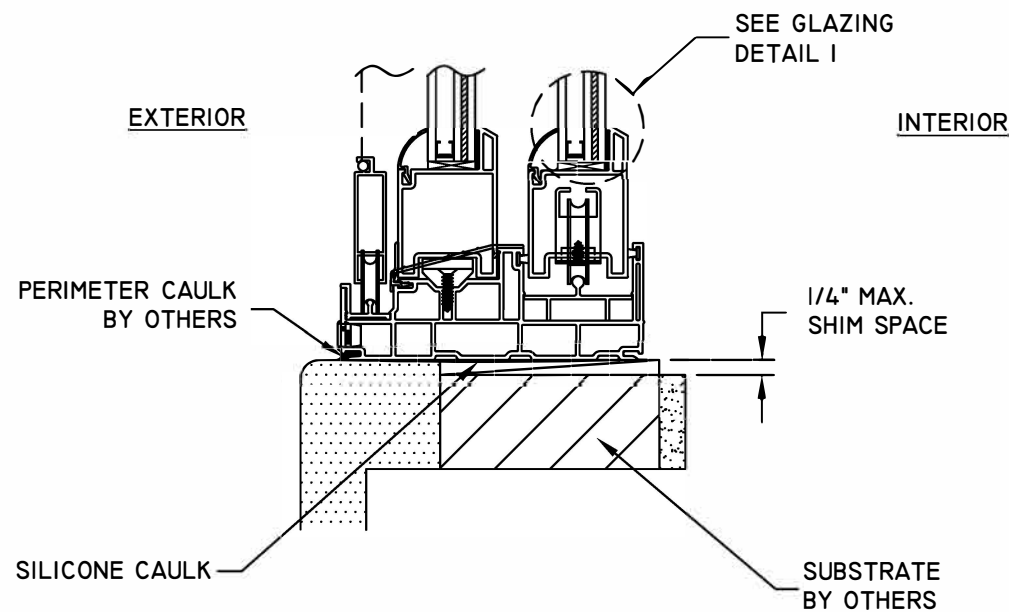
TDI#:

DWG #:  
**PGW318TX**

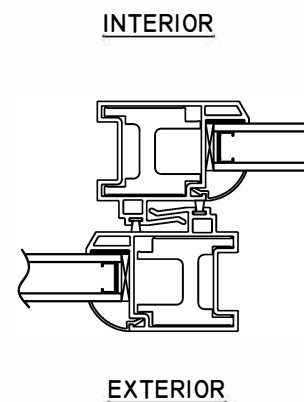
SHEET:  
**2 OF 3**



**A**  
**2** **VERTICAL SECTION**  
2X WOOD STUD SUBSTRATE - HEAD  
PATIO DOOR

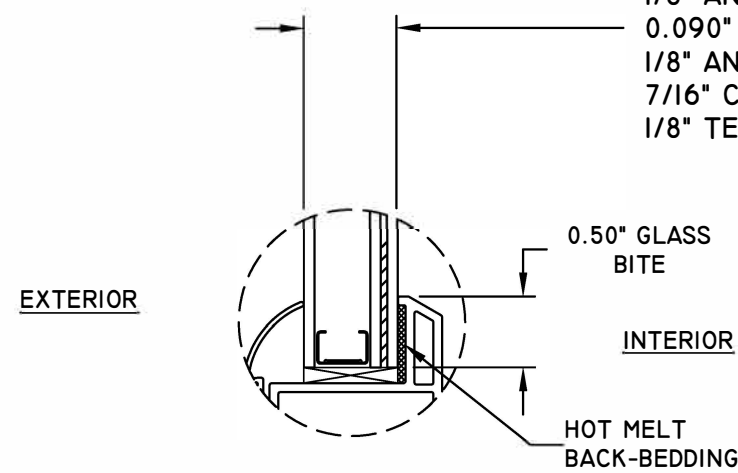


**B**  
**2** **VERTICAL SECTION**  
SILL  
PATIO DOOR

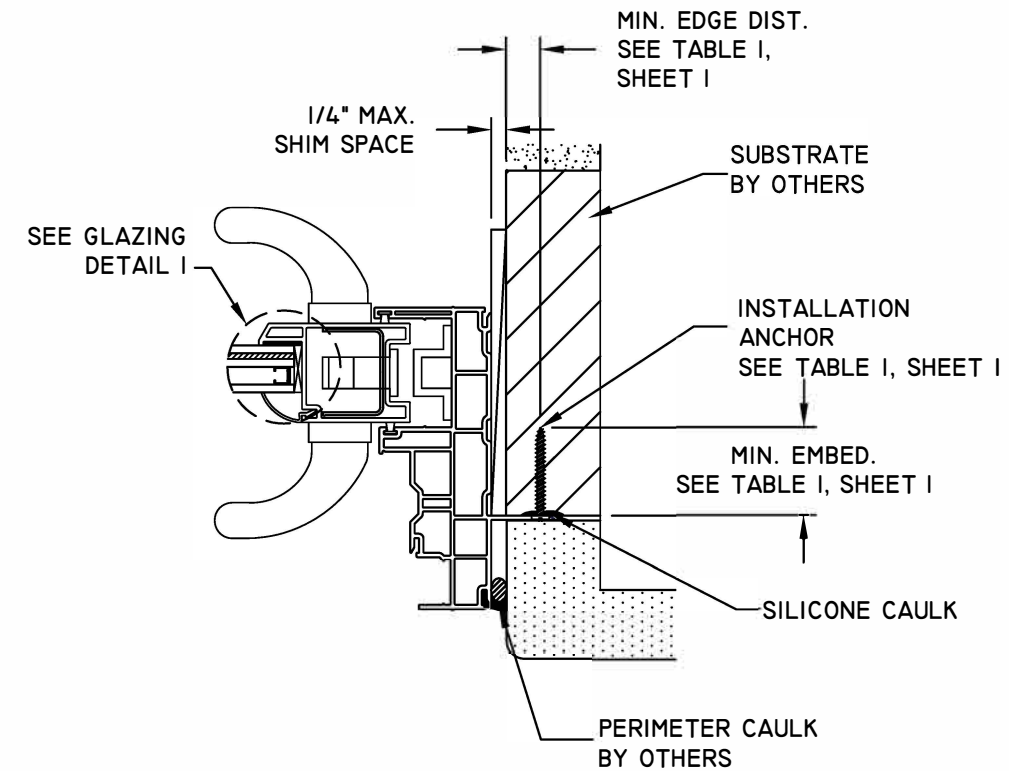


**C**  
**3** **HORIZONTAL SECTION**  
INTERLOCK  
PATIO DOOR

7/8" O.A. INSULATED GLASS UNIT  
CONSISTING OF:  
1/8" ANNEALED GLASS  
0.090" EASTMAN SAFLEX PVB INTERLAYER  
1/8" ANNEALED GLASS  
7/16" CU-D STEEL SPACER  
1/8" TEMPERED GLASS



**GLAZING DETAIL 1**



**D**  
**3** **HORIZONTAL SECTION**  
JAMB  
PATIO DOOR

TITLE: PRO CLASSIC \ 1500 SERIES IMPACT VINYL PATIO DOOR VERTICAL / HORIZONTAL SECTIONS & GLAZING DETAIL		BY	DATE
REVISION DESCRIPTION		LMH	07.31.20
		LMH	12.16.20
NO.	A	CODE UPDATE	
	B	ECO 18-095	

DATE:	10.04.19	DWN BY:	LMH	CHK BY:		SCALE:	NTS
-------	----------	---------	-----	---------	--	--------	-----



8/3/2021  
LUCAS A. TURNER, P.E.  
TX PE # 115094  
TURNER ENGINEERING &  
CONSULTING, INC.  
(TBPE REG. # F-18075)  
2428 OLD NATCHEZ TRACE  
TRAIL, CAMDEN, TN 38320  
PH. 941-380-1574

TDI#:

DWG #:  
**PGW318TX**

SHEET: **3 OF 3**