

PLY GEM WINDOWS

SERIES 1500 INTEGRAL MULLED WINDOW

(NON-IMPACT)

NOTES:

1. 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.
2. WHEN USED IN AREAS REQUIRING IMPACT PROTECTION, THIS PRODUCT REQUIRES 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 CD = 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-I5640-I, I10-I5641-I, I10-I5642-I, I10-I5643-I, I10-I5644-I, I10-I5645-I AND I10-23170-I.
13. DESIGNATION "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	UNIT TYPE	MISSILE IMPACT RATING
WIDTH	HEIGHT				
72-1/2"	60"	LC-PG50	+50/-60 PSF	TWIN	NON-IMPACT
80-1/2"	71-15/16"	LC-PG50	+50/-50 PSF		
84-1/4"	77-1/8"	LC-PG40	+40/-40 PSF		
71-1/2"	83-1/2"	LC-PG50	+50/-50 PSF		
109"	60"	LC-PG45	+45/-65 PSF	TRIPLE	
109-1/16"	74-1/16"	LC-PG25	+25/-35 PSF		
121-1/16"	77-1/16"	LC-PG45	+45/-45 PSF		

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	NOTES & ANCHOR LAYOUTS
2	ELEVATIONS
3	ANCHOR SCHEDULE
4	VERTICAL SECTIONS
5	HORIZONTAL SECTIONS

Lucas Turner

2025.10.09

09:53:02

-05'00'

TABLE I: INSTALLATION FASTENERS TABLE

ID	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED.	MIN. EDGE DISTANCE
FIN INSTALLATION				
A	2X MIN. SPRUCE-PINE-FIR WOOD (G=0.42)	#8 WOOD SCREW	1-1/2"	7/16"
B	16 GAUGE (0.060") STEEL 36 KSI MIN. OR 1/8" ALUM. 6063-T5 MIN.	#10-I6 SELF-DRILLING SCREW (TEKS/DRIL-FLEX/KWIK-FLEX)	FULL, PLUS 3 THREADS MIN.	7/16"
FRAME OR CLIP INSTALLATION				
C	CONCRETE (2 KSI MIN.)	3/16" ITW TAPCON	1-1/2"	1-1/8"
D	HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	2"
E	2X MIN. SOUTHERN PINE WOOD (G=0.55)	3/16" ITW TAPCON	1-3/8"	7/8"
F	2X MIN. SOUTHERN PINE WOOD (G=0.55)	#10 WOOD SCREW	1-3/8"	7/8"
G	16 GAUGE (0.060") STEEL 36 KSI MIN. OR 1/8" ALUM. 6063-T5 MIN.	#10-I6 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.

PlyGem

WINDOWS & DOORS

Part of the Cornerstone Building Brands Family

433 N. MAIN ST.,
PO BOX 559,
ROCKY MOUNT, VA 24151
PH: 540-484-6348
FX: 540-484-6683

TITLE: SERIES 1500 INTEGRAL MULLED WINDOW NOTES & ANCHOR LAYOUTS	DATE	12.09.17	12.01.20	03.29.21	08.13.25
	BY	LMH	LMH	LMH	LMH
	REVISION DESCRIPTION				
	NO.	A	B	C	D
		ADDED NOTES & TABLE 1	7TH EDITION 2020 FBC	EC 20-007 NEW TEST SIZE	UPDATED TO CURRENT FBC
DATE: 12.18.12	DWN BY: JLA	CHK BY:	SCALE: NTS		

LUCAS A. TURNER

LICENSE

No. 58201

STATE OF FLORIDA

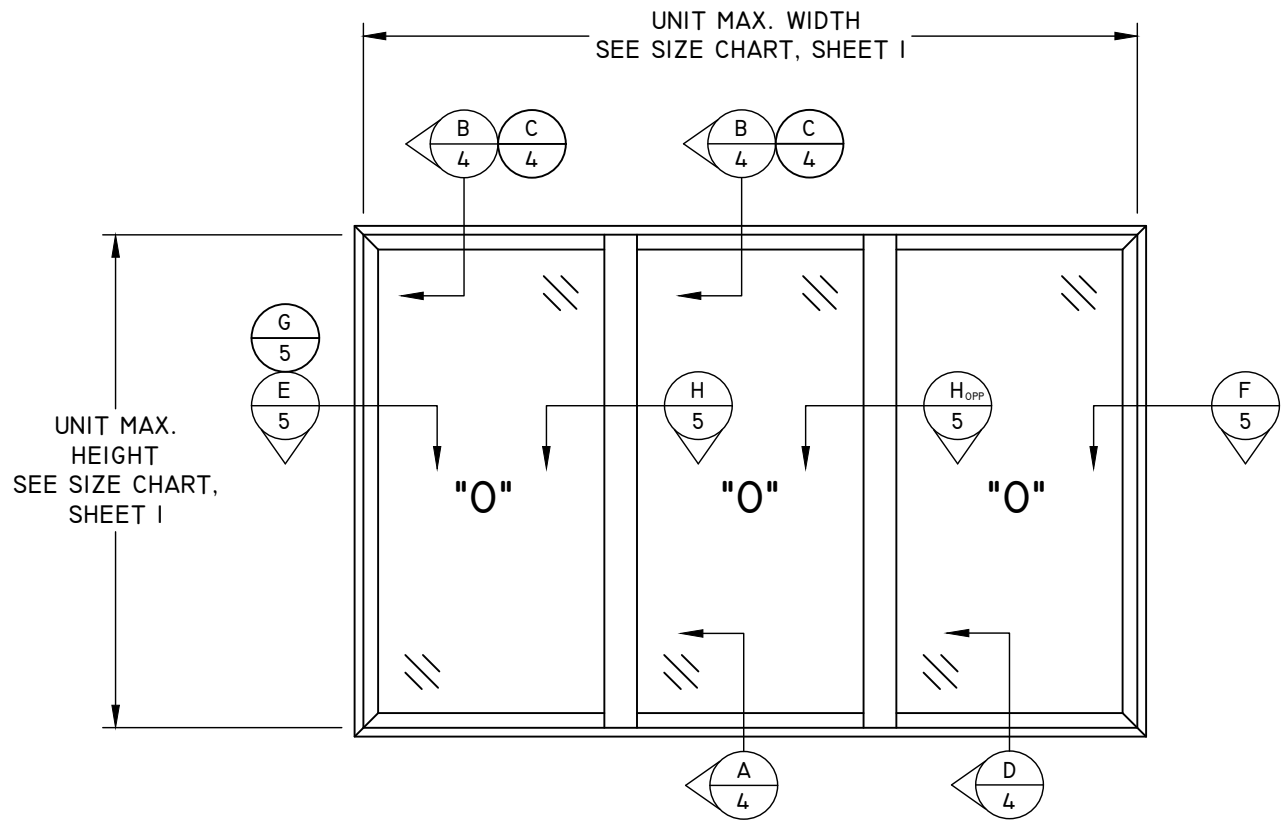
PROFESSIONAL ENGINEER

10/06/2025
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#: 16101

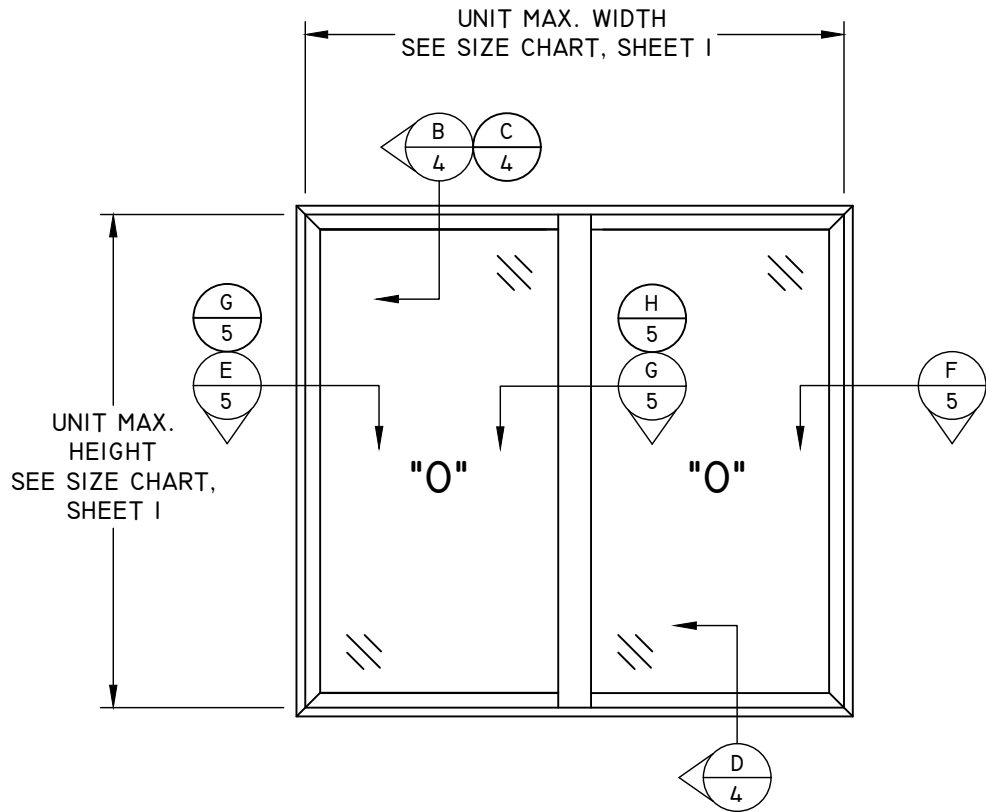
DWG #: PGW197

SHEET: 1 OF 5

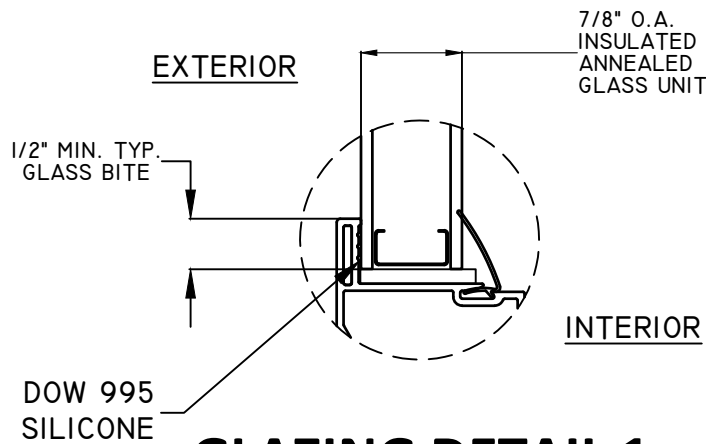


TYPICAL ELEVATION
TRIPLE UNIT

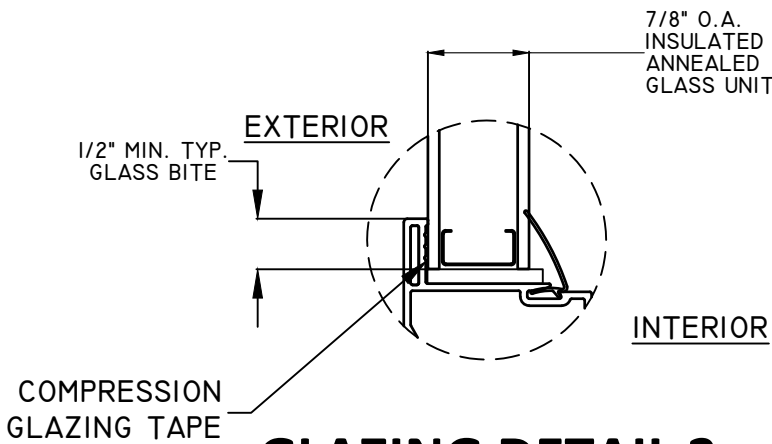
SERIES 1500 INTEGRAL MULLED WINDOW	
UNIT TYPE	QUALIFIED CONFIGURATIONS
TWIN UNITS	00
TRIPLE UNITS	000



TYPICAL ELEVATION
TWIN UNIT

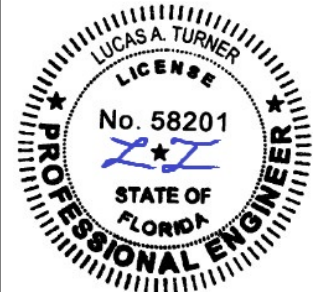


GLAZING DETAIL 1
FOR USE IN ANY LITE
(FIXED OR SASH)



GLAZING DETAIL 2
FOR USE IN SINGLE HUNG
FIXED LITES ONLY

TITLE: SERIES 1500 INTEGRAL MULLED WINDOW ELEVATIONS & ANCHOR LAYOUTS		DATE	BY	REVISION DESCRIPTION
DATE: 12.18.12	DWN BY: JLA	12.09.17	LMH	ADDED NOTES & TABLE 1
	CHK BY:	12.01.20	LMH	7TH EDITION 2020 FBC
	SCALE: NTS	03.29.21	LMH	EC 20-007 NEW TEST SIZE
		08.13.25	LMH	UPDATED TO CURRENT FBC



10/06/2025
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

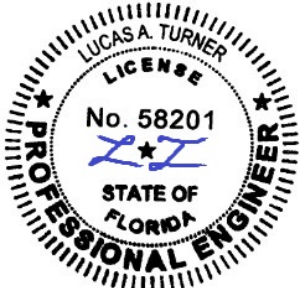
FL#: 16101

DWG #: PGWI97

SHEET: 2 OF 5

TITLE: SERIES 1500 INTEGRAL MULLED WINDOW ANCHOR SCHEDULE	DATE	BY	REVISION DESCRIPTION	NO.
	12.09.17	LMH	ADDED NOTES & TABLE 1	A
	12.01.20	LMH	7TH EDITION 2020 FBC	B
	03.29.21	LMH	EC 20-007 NEW TEST SIZE	C
	08.13.25	LMH	UPDATED TO CURRENT FBC	D

DATE: 12.18.12	DWN BY: JLA	CHK BY:	SCALE: NTS
-------------------	----------------	---------	---------------

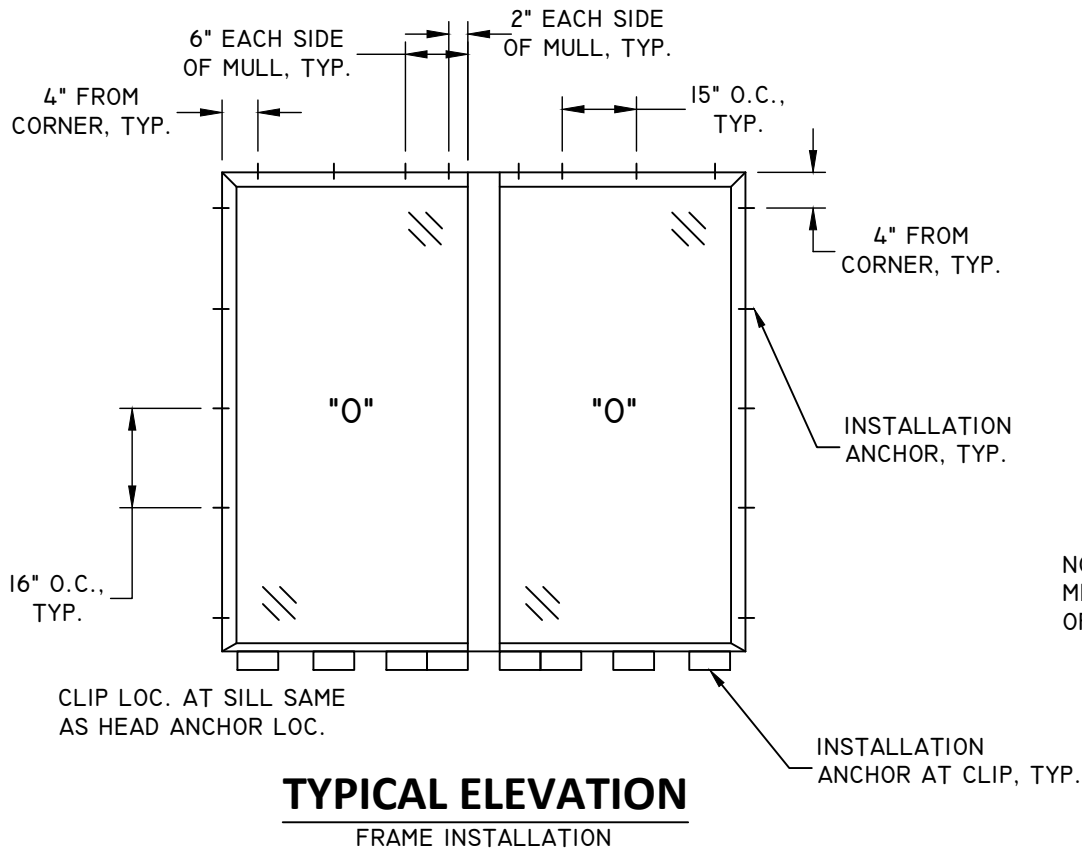
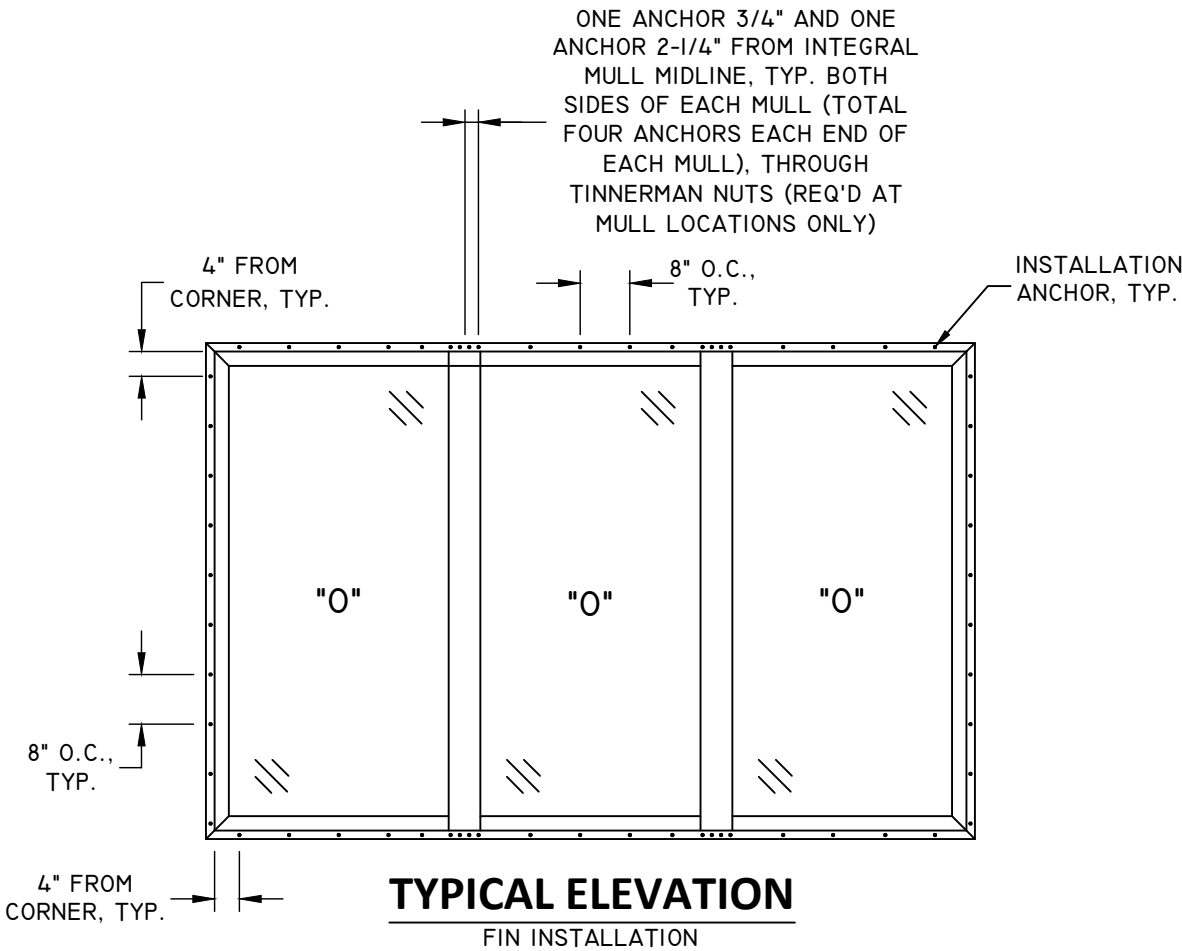


10/06/2025
LUCAS A. TURNER, P.E.
FL PE # 58201
TURNER ENGINEERING &
CONSULTING, INC.
(COA # 29779)
2428 OLD NATCHEZ TRACE
TRAIL, CAMDEN, TN 38320
PH. 941-380-1574

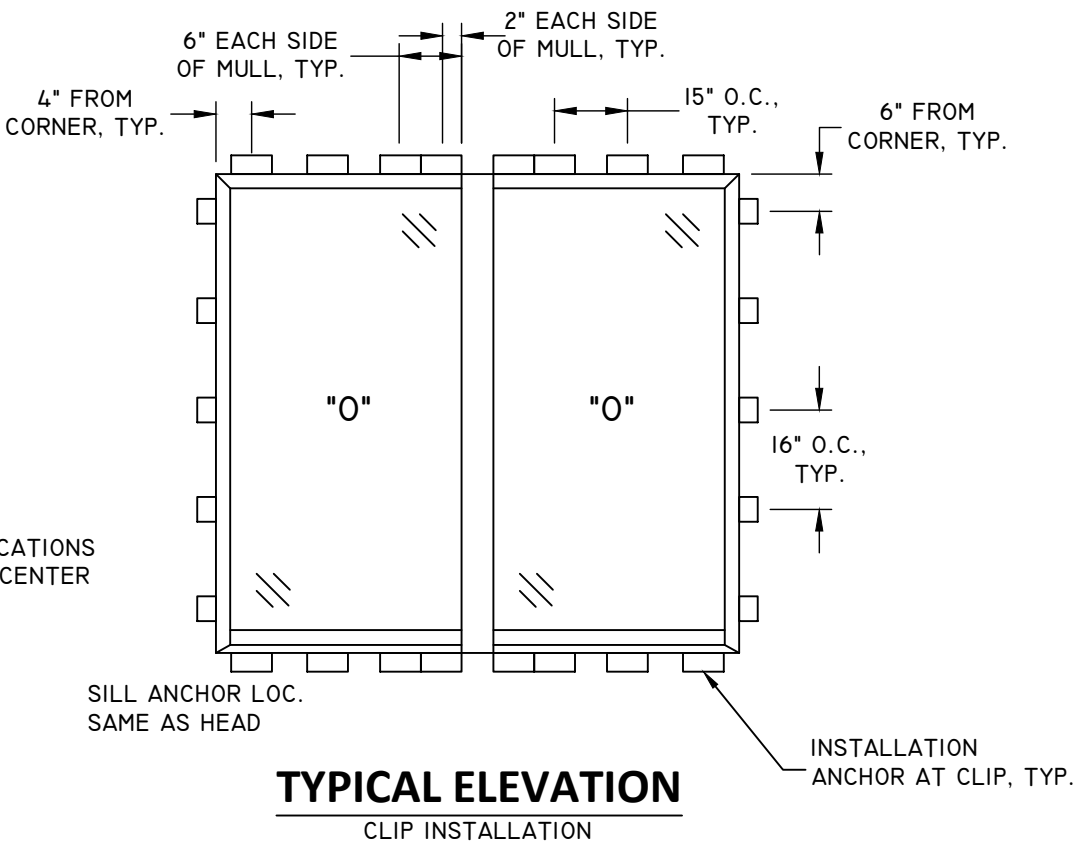
FL#: 16101

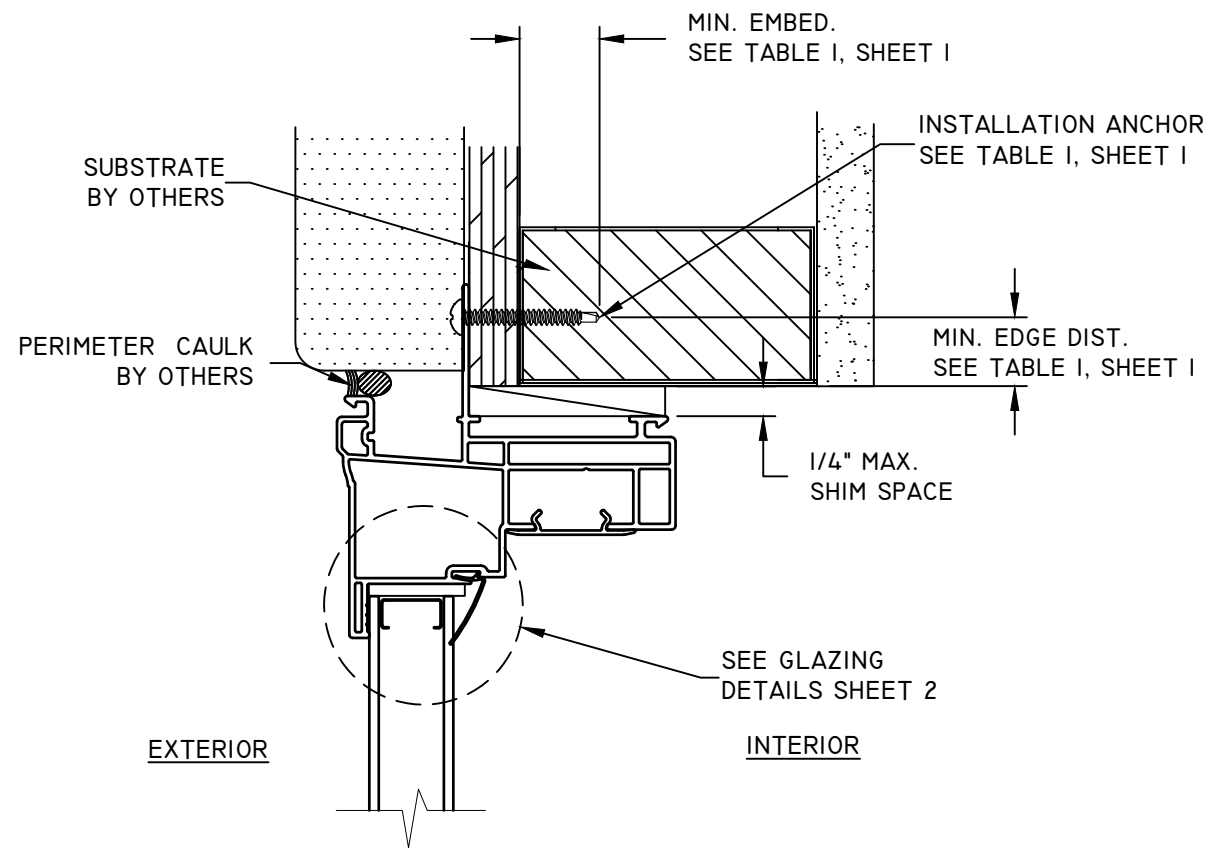
DWG #: PGWI97

SHEET: 3 OF 5

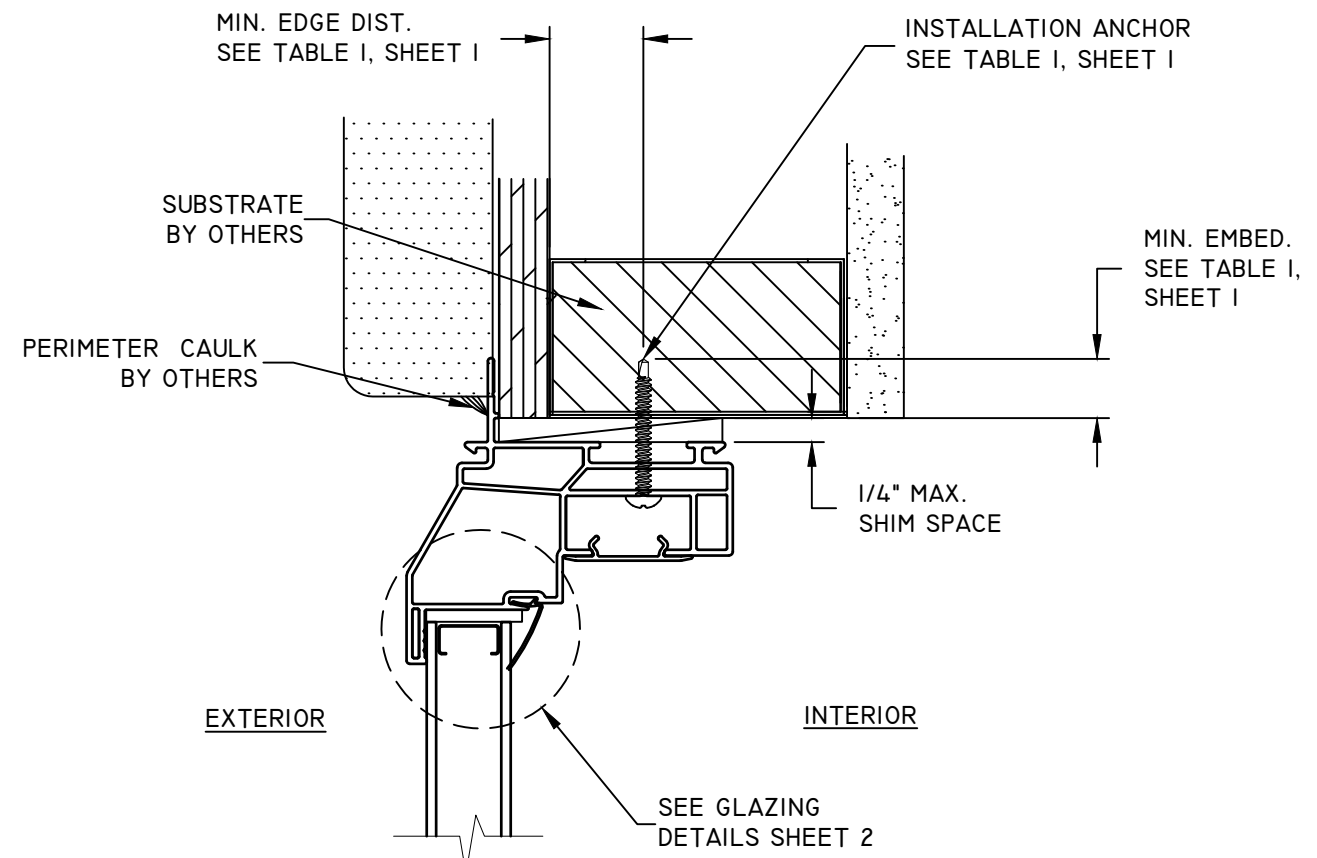


NOTE: CLIP LOCATIONS MEASURED TO CENTER OF CLIP

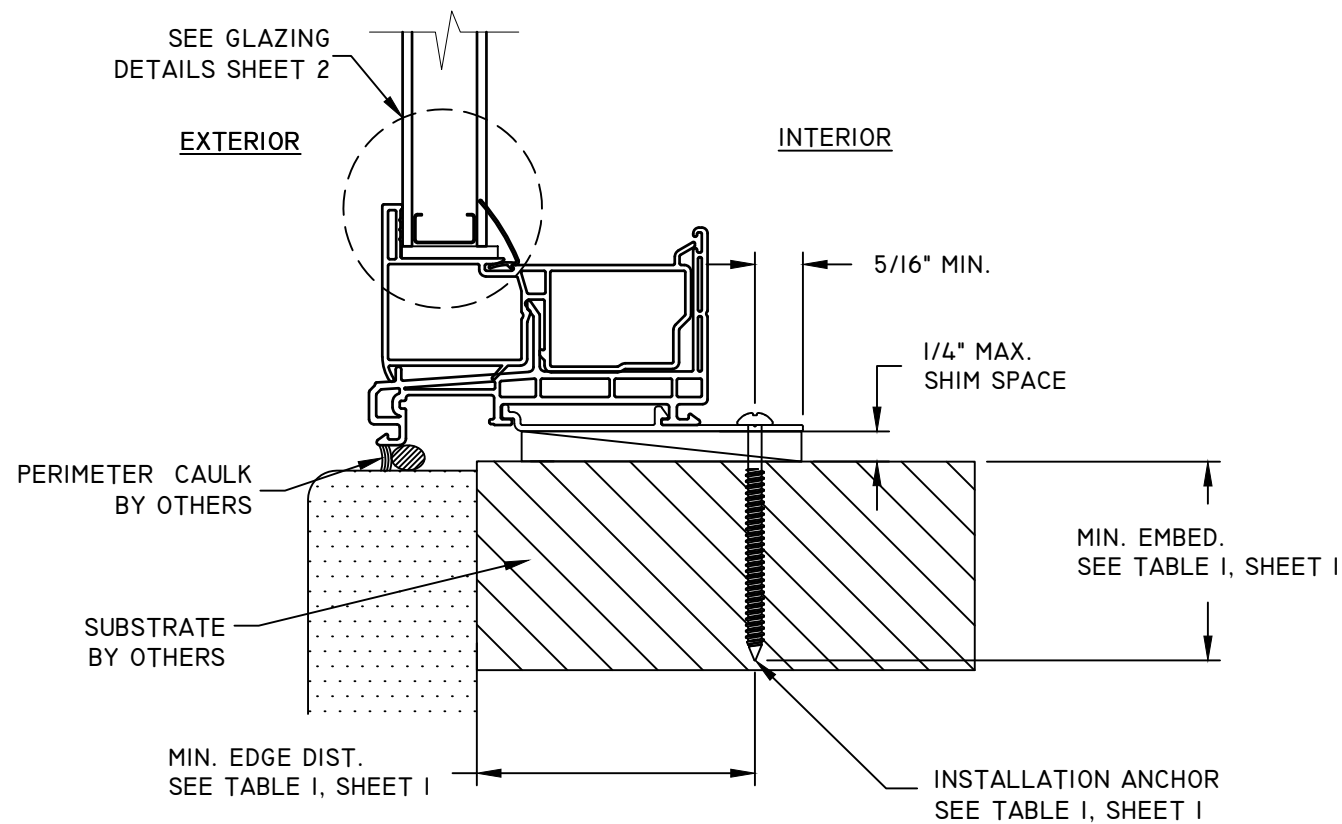




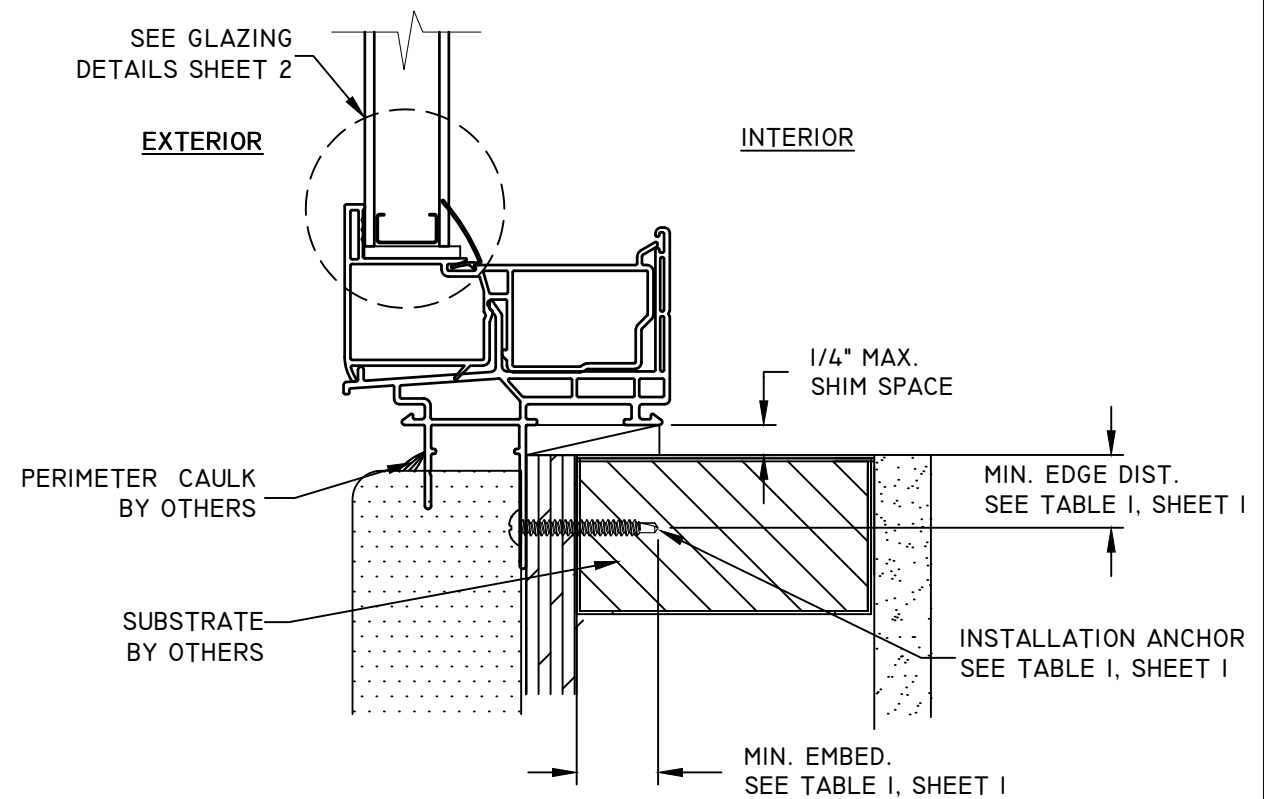
B
4 **VERTICAL SECTION**
HEAD
BRICKMOULD FRAME - FIN INSTALLATION



C
4 **VERTICAL SECTION**
HEAD
BEVELED FRAME - FRAME INSTALLATION

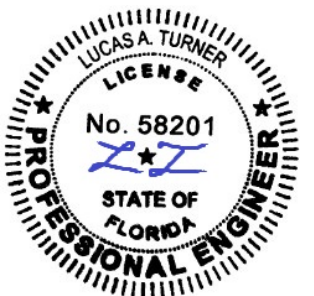


A
4 **VERTICAL SECTION**
SILL
BRICKMOULD FRAME - CLIP INSTALLATION

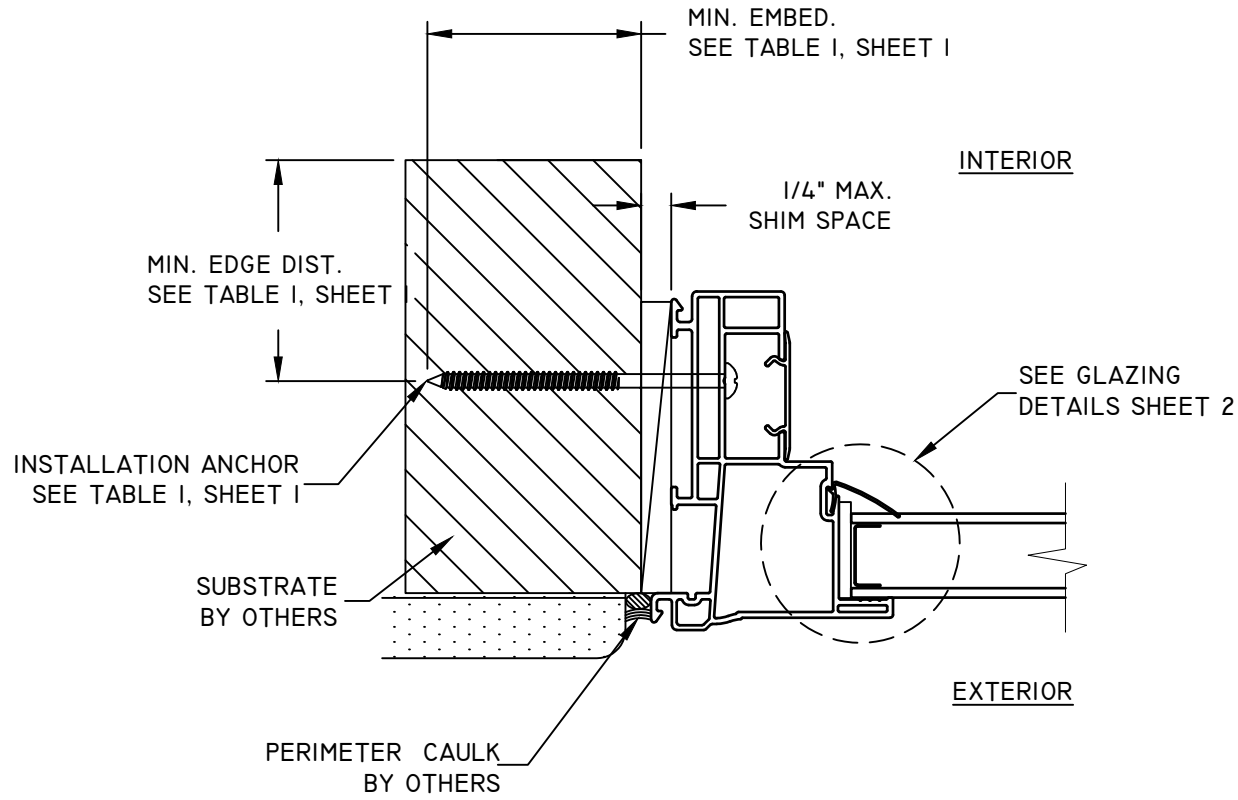


D
4 **VERTICAL SECTION**
SILL
BEVELED FRAME - FIN INSTALLATION

TITLE: SERIES 1500 INTEGRAL MULLED WINDOW VERTICAL SECTIONS	DATE	12.09.17
	BY	LMH
	REVISION DESCRIPTION	ADDED NOTES & TABLE I
	NO.	A
	DATE	12.01.20
DATE: 12.18.12	DWN BY:	JLA
	CHK BY:	
	SCALE:	NTS
	NO.	B
	REVISION DESCRIPTION	7TH EDITION 2020 FBC
DATE: 12.18.12	DWN BY:	JLA
	CHK BY:	
	SCALE:	NTS
	NO.	C
	REVISION DESCRIPTION	EC 20-007 NEW TEST SIZE
DATE: 12.18.12	DWN BY:	JLA
	CHK BY:	
	SCALE:	NTS
	NO.	D
	REVISION DESCRIPTION	UPDATED TO CURRENT FBC



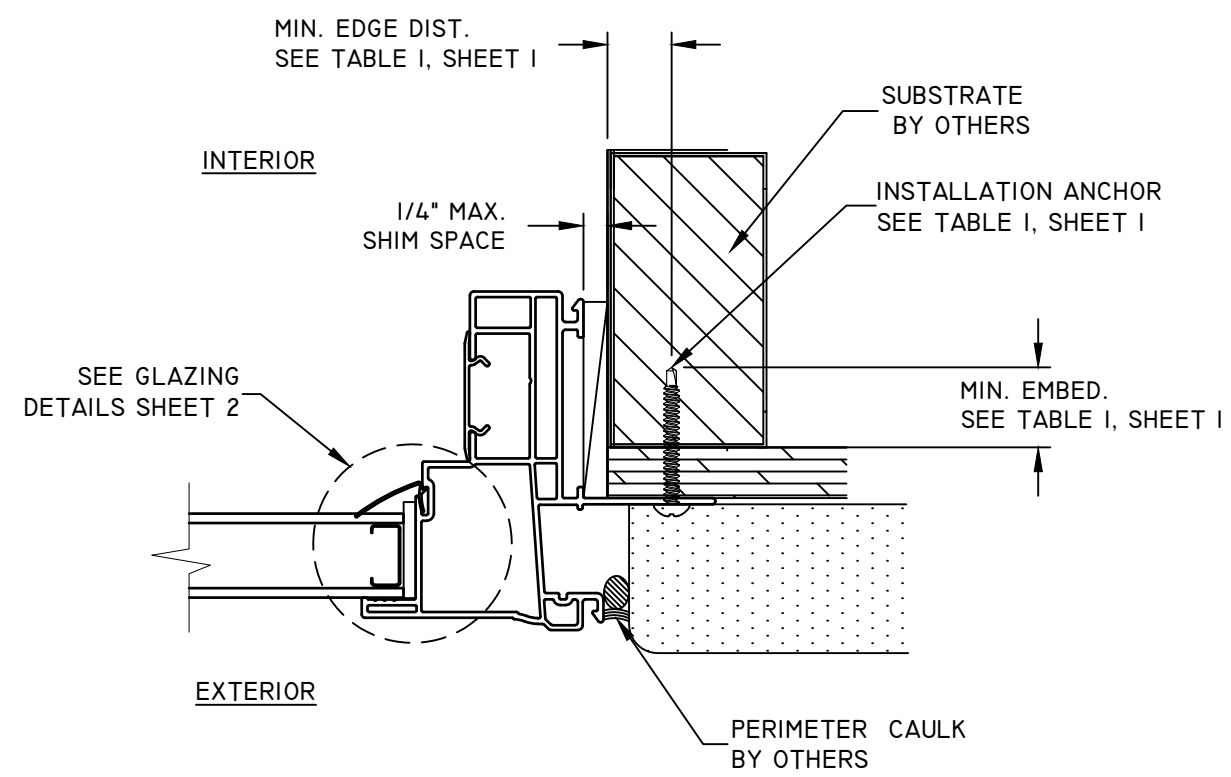
10/06/2025
LUCAS A. TURNER, P.E.
FL PE # 58201
TURNER ENGINEERING &
CONSULTING, INC.
(COA # 29779)
2428 OLD NATCHEZ TRACE
TRAIL, CAMDEN, TN 38320
PH. 941-380-1574



E
5

HORIZONTAL SECTION

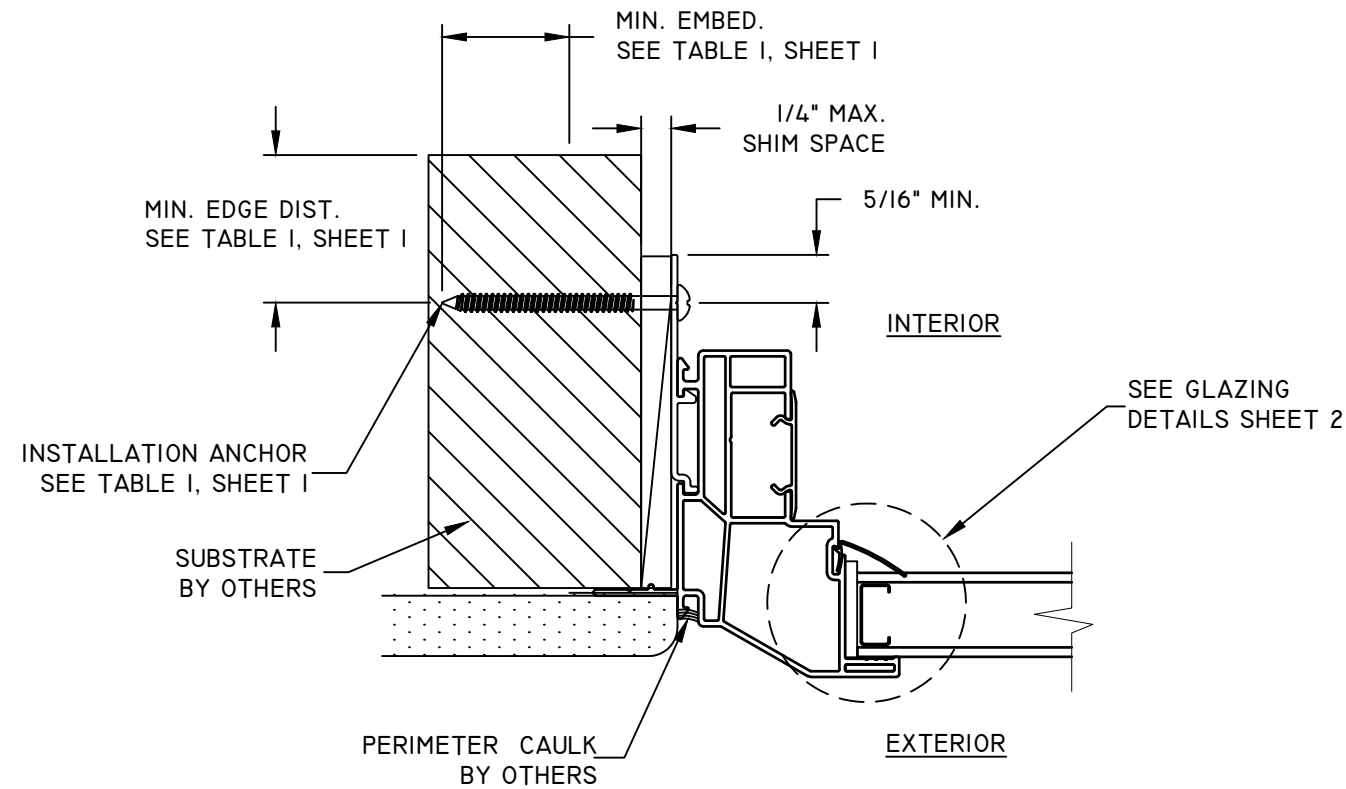
JAMB
BRICKMOULD FRAME - FRAME INSTALLATION



F
5

HORIZONTAL SECTION

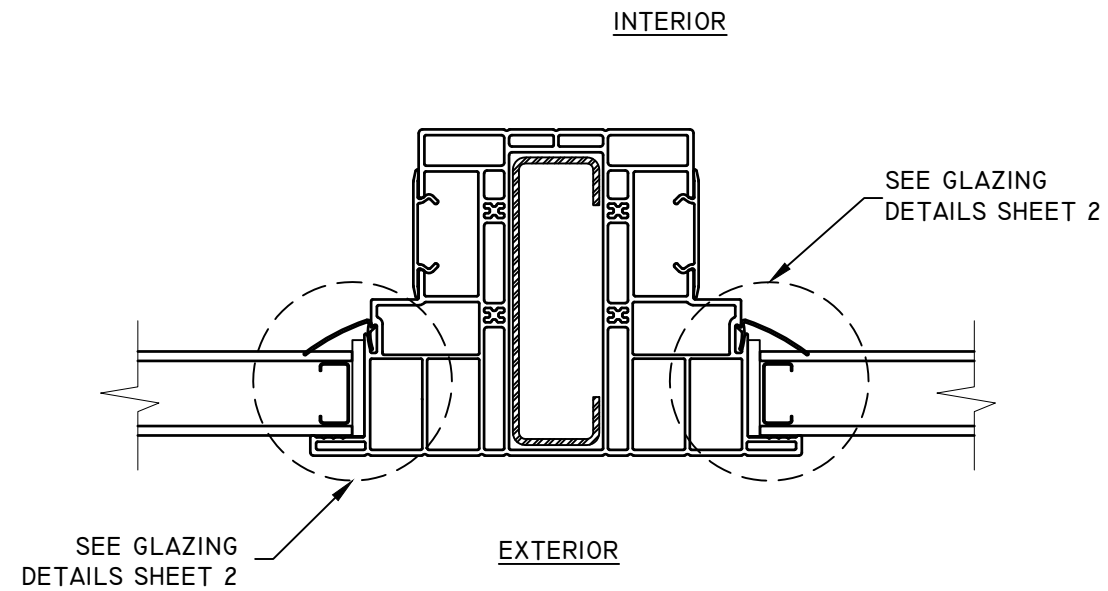
JAMB
BRICKMOULD FRAME - FIN INSTALLATION



G
5

HORIZONTAL SECTION

JAMB
BEVELED FRAME - CLIP INSTALLATION



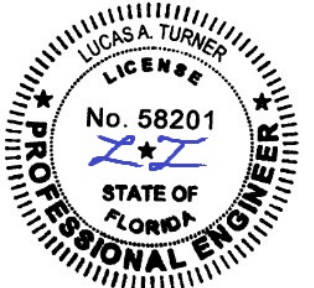
H
5

HORIZONTAL SECTION

INTEGRAL MULLION
TYPICAL

TITLE: SERIES 1500 INTEGRAL MULLED WINDOW HORIZONTAL SECTIONS	DATE	12.09.17
	BY	LMH
	REVISION DESCRIPTION	ADDED NOTES & TABLE I
	NO.	A
	DATE	12.01.20
	BY	LMH
	REVISION DESCRIPTION	7TH EDITION 2020 FBC
	NO.	B
	DATE	03.29.21
	BY	LMH
	REVISION DESCRIPTION	EC 20-007 NEW TEST SIZE
	NO.	C
	DATE	08.13.25
	BY	LMH
	REVISION DESCRIPTION	UPDATED TO CURRENT FBC
	NO.	D

DATE:	12.18.12
DWN BY:	JLA
CHK BY:	
SCALE:	NTS



10/06/2025
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#:	16101
DWG #:	PGWI97
SHEET:	5 OF 5