

PLY GEM WINDOWS - AMERICAN CRAFTSMAN 30 / SERIES 4701FL

ALUMINUM FIXED WINDOW (HVHZ - NON-IMPACT)

NOTES:

1. THIS INSTALLATION HAS BEEN EVALUATED FOR USE IN LOCATIONS ADHERING TO THE FLORIDA BUILDING CODE INCLUDING 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 INTERTEK BUILDING AND CONSTRUCTION I9308.05-550-I8-R2, J2927.01-550-I8-R0 AND J8133.01-550-I8-R0.
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				
PRODUCT	OVERALL SIZE		PRODUCT RATING	MAX. DESIGN PRESSURE
	WIDTH	HEIGHT		
4712FL	52-1/8"	71"	FW-DP50	+50/-50 PSF

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2	ELEVATIONS & ANCHOR LAYOUTS
3	SECTION VIEWS & GLAZING DETAILS
4	BILL OF MATERIALS

Lucas Turner

2024.07.24

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TABLE 1: INSTALLATION FASTENERS TABLE				
ID	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED	MIN. EDGE DISTANCE
A	CONCRETE (3.05 KSI MIN.)	3/16" ITW TAPCON	1-1/2"	1-1/8"
B	HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	2"
C	2X MIN. SOUTHERN PINE WOOD (G=0.55)	3/16" ITW TAPCON	1-3/8"	7/8"
D	CONCRETE (3.05 KSI MIN.)	3/16" DEWALT ULTRACON+	1-3/4"	1-1/8"
E	HOLLOW OR GROUT-FILLED CMU (ASTM C-90)	3/16" DEWALT ULTRACON+	1-1/4"	2-1/2"
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.	#10-16 SELF-DRILLING SCREW (TEKS/DRIL-FLEX/KWIK-FLEX)	FULL, PLUS 3 THREADS MIN.	1/2"

Ply Gem®

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 4701FL FIXED WINDOW HVHZ NON-IMPACT GENERAL AND INSTALLATION NOTES	DATE	BY	REVISION DESCRIPTION		
	12/18/18	DWN BY: LMH	NO.	A	B
		CHK BY: .			C
		SCALE: NTS			

LUCAS A. TURNER

LICENSE

No. 58201

PROFESSIONAL ENGINEER

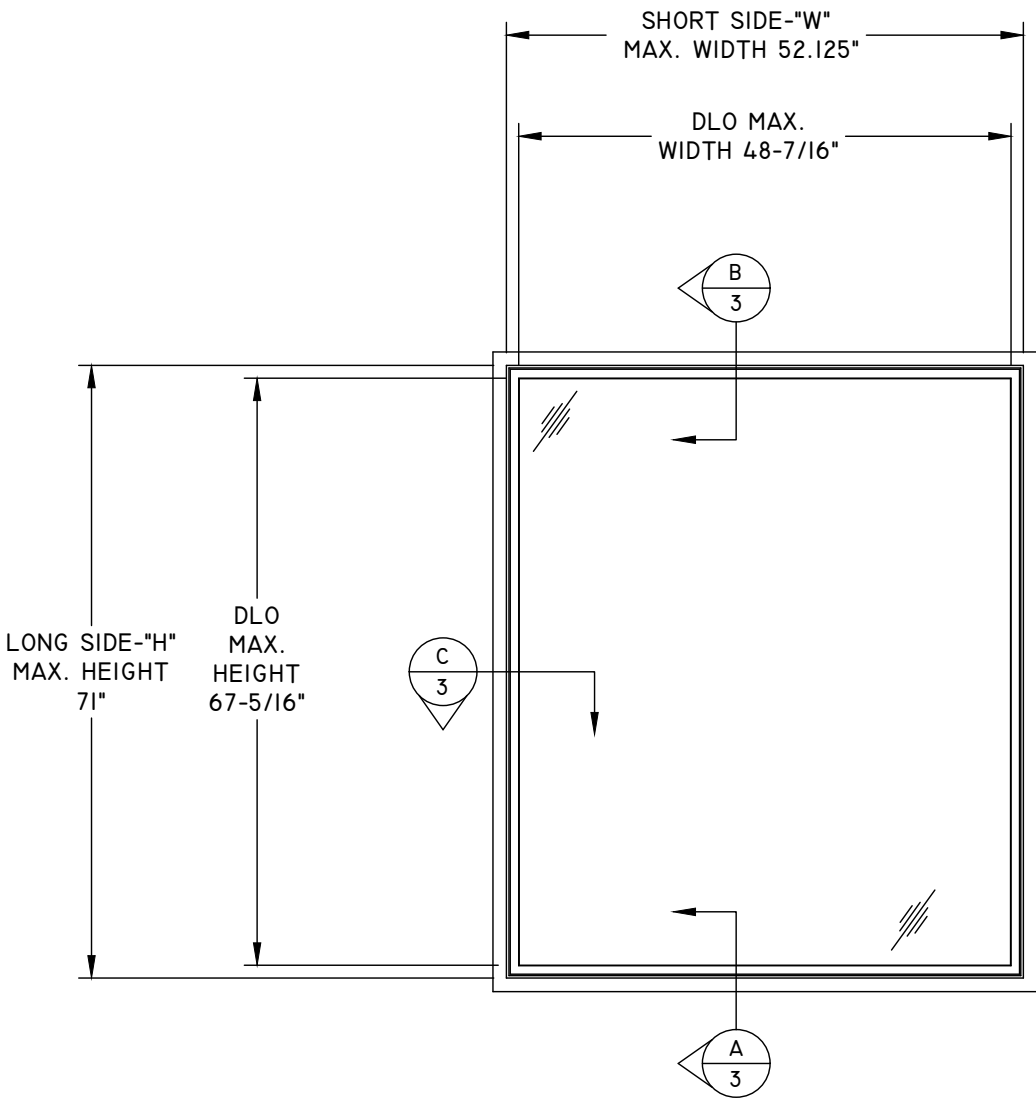
STATE OF FLORIDA

07/18/2024
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

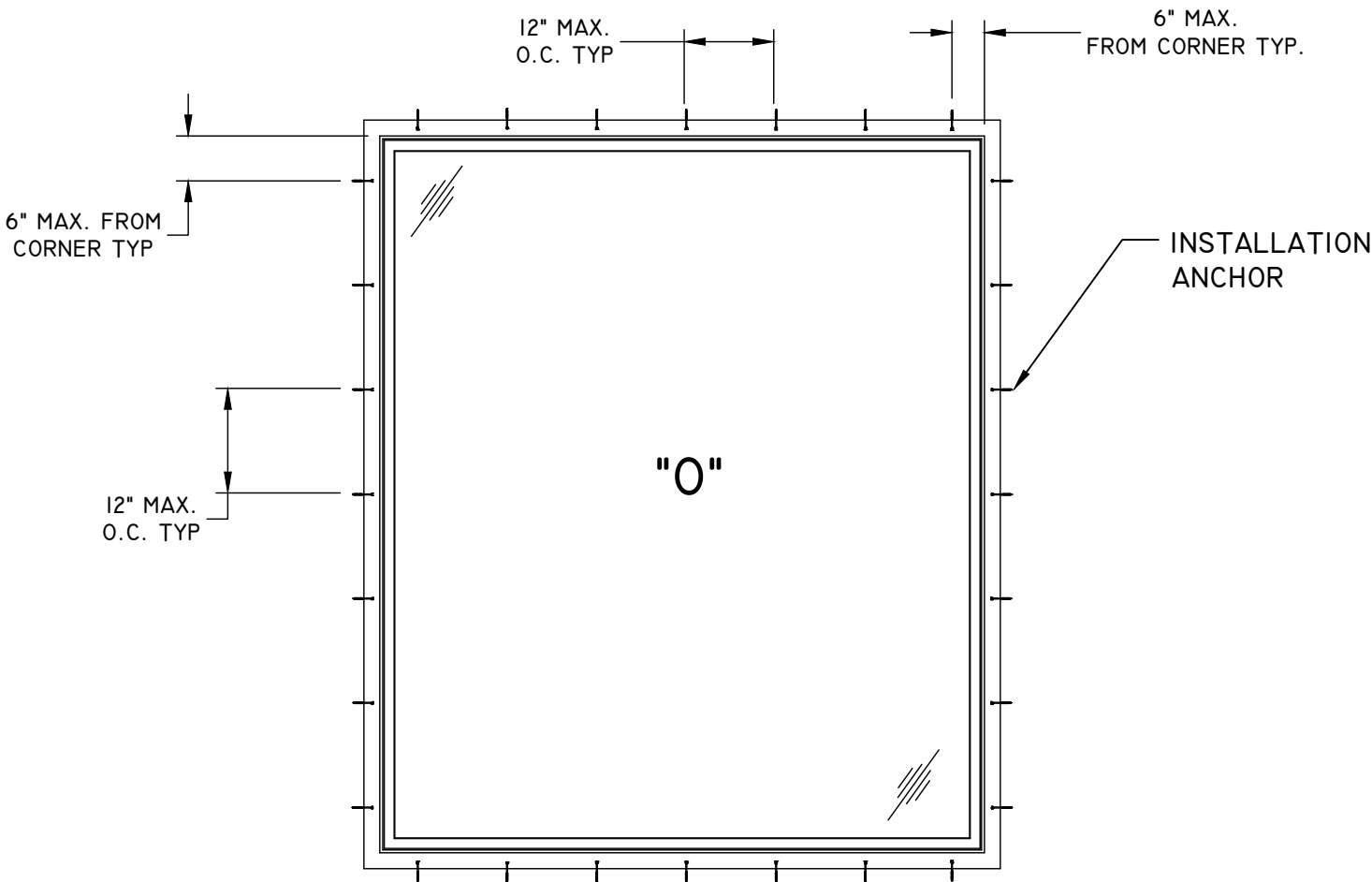
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DWG #: PGW313

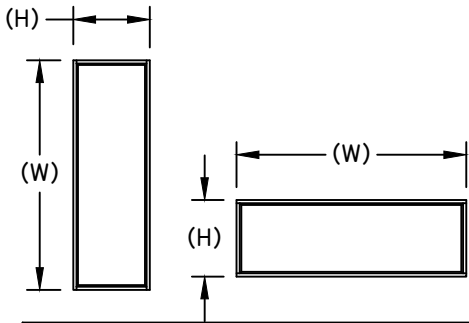
SHEET: 1 OF 4



ELEVATION

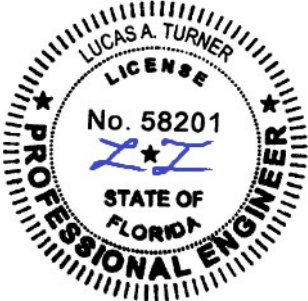


ANCHOR LAYOUT
FLANGE



NOTE:
WINDOW WIDTH (W) - SHORT SIDE
AND HEIGHT (H) - LONG SIDE ARE
INTERCHANGEABLE.

TITLE: SERIES 470IFL FIXED WINDOW HVHZ NON-IMPACT EVEVATION & ANCHOR LAYOUT	DATE	BY	REVISION DESCRIPTION		
	12/18/18	DWN BY: LMH	NO.	A	UPDATED CORNER ANCHOR SPACING.
		CHK BY:	B	B	UPDATED FOR 7TH EDITION 2020 FBC
		SCALE: NTS	C	C	UPDATED FOR CURRENT FBC

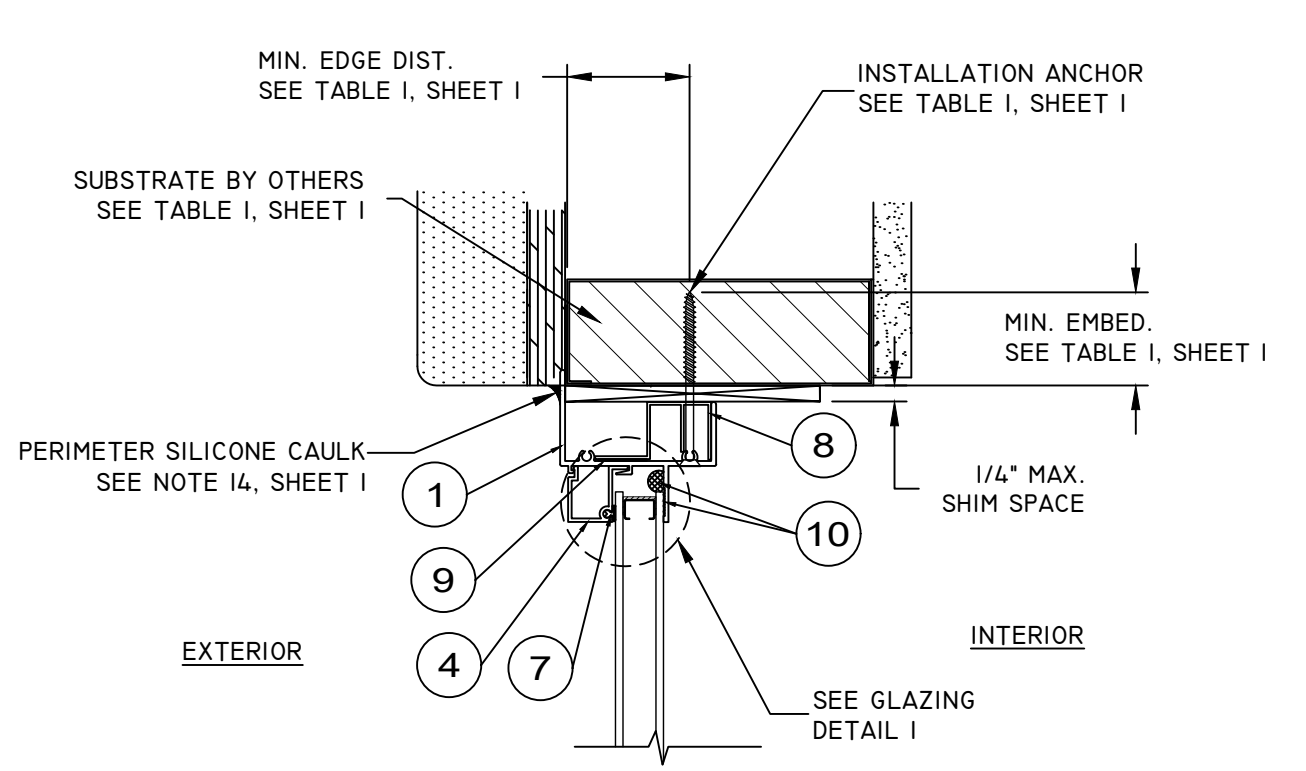


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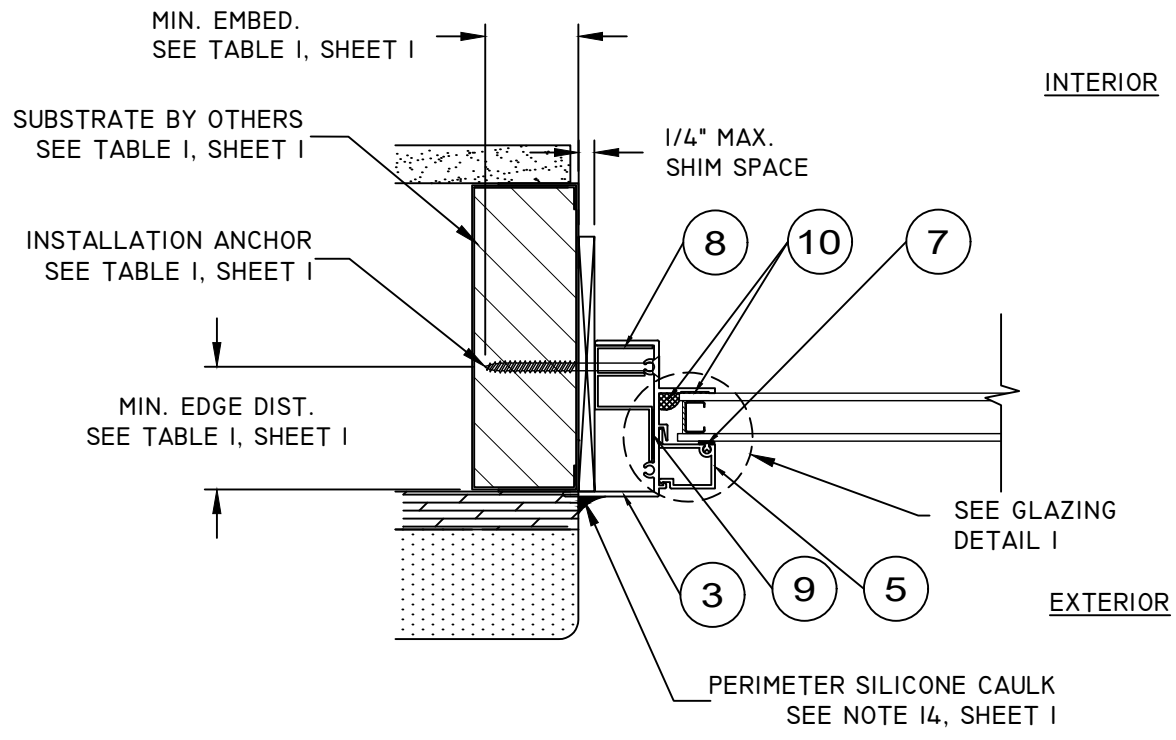
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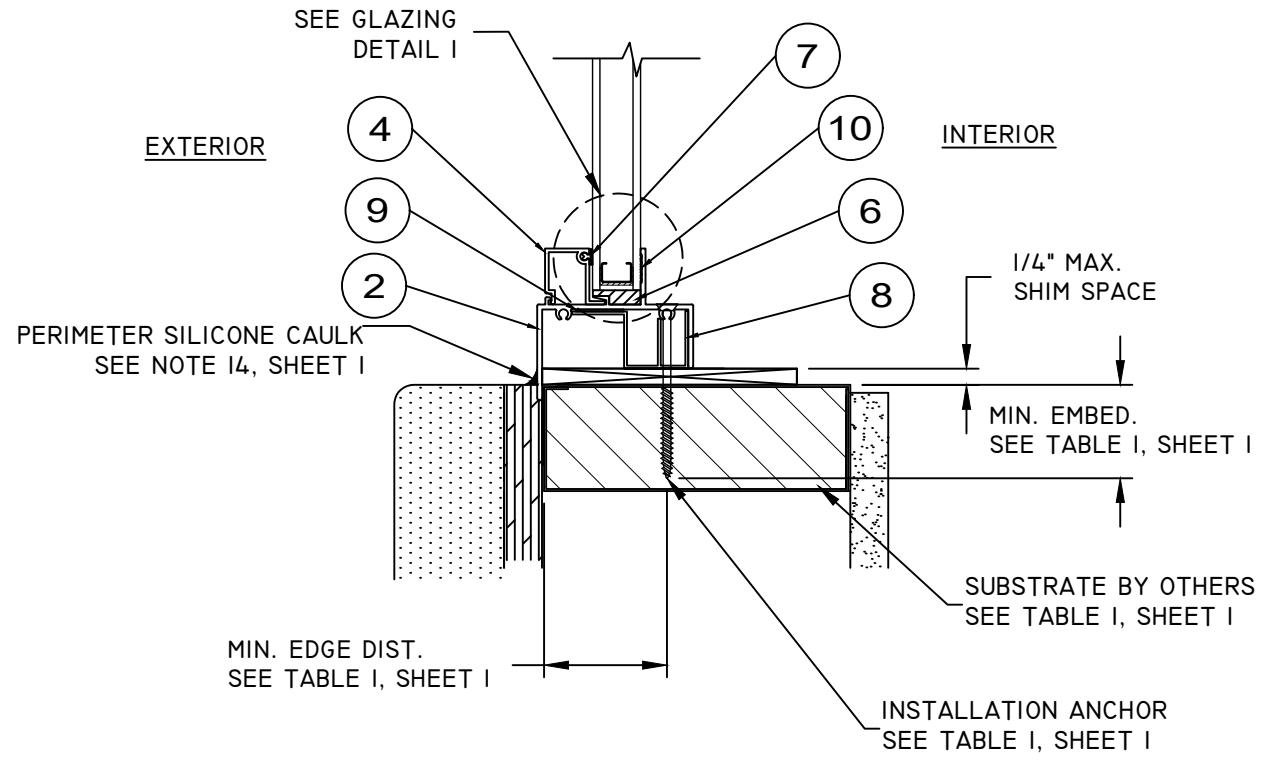
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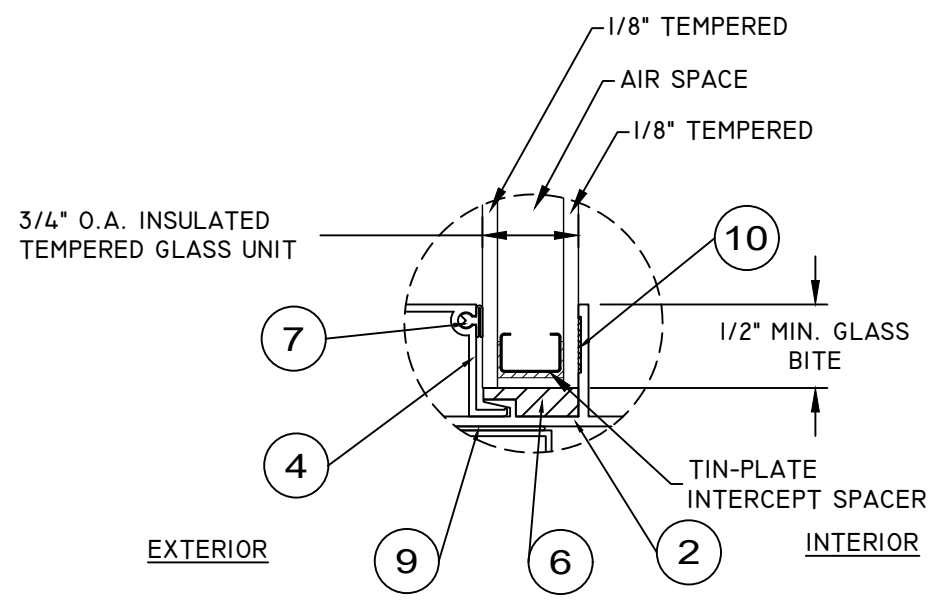
B
3 **VERTICAL SECTION**
HEAD
4712 FLANGE



C
3 **HORIZONTAL SECTION**
JAMB
4712 FLANGE

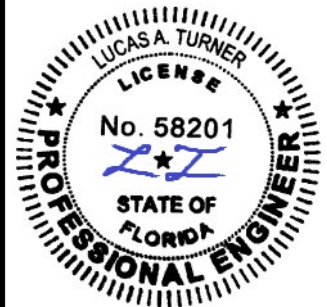


A
3 **VERTICAL SECTION**
SILL
4712 FLANGE



GLAZING DETAIL 1

TITLE: SERIES 470IFL FIXED WINDOW HVHZ NON-IMPACT SECTION VIEWS & GLAZING DETAIL	REVISION DESCRIPTION	BY	DATE
	NO.		
	A	LMH	09.27.19
	B	LMH	11.16.20
DATE: 12/18/18	DWN BY: LMH	CHK BY:	SCALE: NTS



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FL#: **14434**
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SHEET: **3 OF 4**

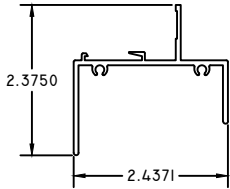
BILL OF MATERIALS		
ITEM #	DESCRIPTION	SUPPLIER
1	11080 ALUMINUM FRAME, HEAD, FLANGE	ALENCO
2	11080 ALUMINUM FRAME, SILL, FLANGE	ALENCO
3	11080 ALUMINUM FRAME, JAMB, FLANGE	ALENCO
4	10601 ALUMINUM GLAZING BEAD FOR 3/4" IG	ALENCO
5	10601 ALUMINUM GLAZING BEAD FOR 3/4" IG	ALENCO
6	V-7189 VINYL GLAZING SHIM, 2" EACH	PEPCO
7	V-7178 VINYL GLAZING BEAD INSERT	PEPCO
8	11587 ANCHOR REINFORCEMENT CLIP	ALENCO
9	681635 DOUBLE SIDED TAPE	ADHESIVE APPLICATIONS
10	NOVAFLEX M150	NOVAGARD

1

2

3

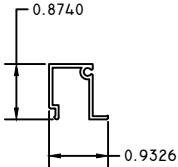
FRAME HEAD/SILL/JAMB
ALUMINUM 6063-T5
TYPICAL WALL THICKNESS: .078"



4

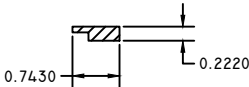
5

GLAZING BEAD
ALUMINUM 6063-T5
TYPICAL WALL THICKNESS: .056"



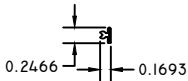
6

GLAZING SHIM 2"
(2 PER SILL, 2 PER EACH JAMB)



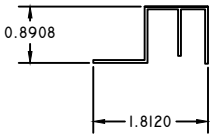
7

GLAZING BEAD INSERT



8

ANCHOR REINFORCEMENT CLIP
TYPICAL WALL THICKNESS: .045"



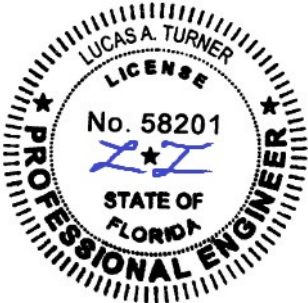


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TITLE: SERIES 470IFL FIXED WINDOW HVHZ NON-IMPACT BILL OF MATERIALS	DATE	BY	REVISION DESCRIPTION		
	12/18/18	LMH	A	UPDATED CORNER ANCHOR SPACING.	09.27.19
	DWN BY:	LMH	B	UPDATED FOR 7TH EDITION 2020 FBC	11.16.20
	CHK BY:	.	C	UPDATED FOR CURRENT FBC	07.18.24
DATE:	DWN BY:	CHK BY:	SCALE:	NTS	



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FL#:
14434

DWG #:
PGW053

SHEET: 4 OF 4