

GENERAL NOTES: SERIES PW640
NON-IMPACT CASEMENT PICTURE WINDOW

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

2) SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

3) MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, ASTM C90 CONCRETE MASONRY UNITS AND CONCRETE WITH MIN. KSI PER ANCHOR TYPE.

4) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

5) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT EMBEDMENT AS SPECIFIED ON TABLES 3 & 4, SHEET 5. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

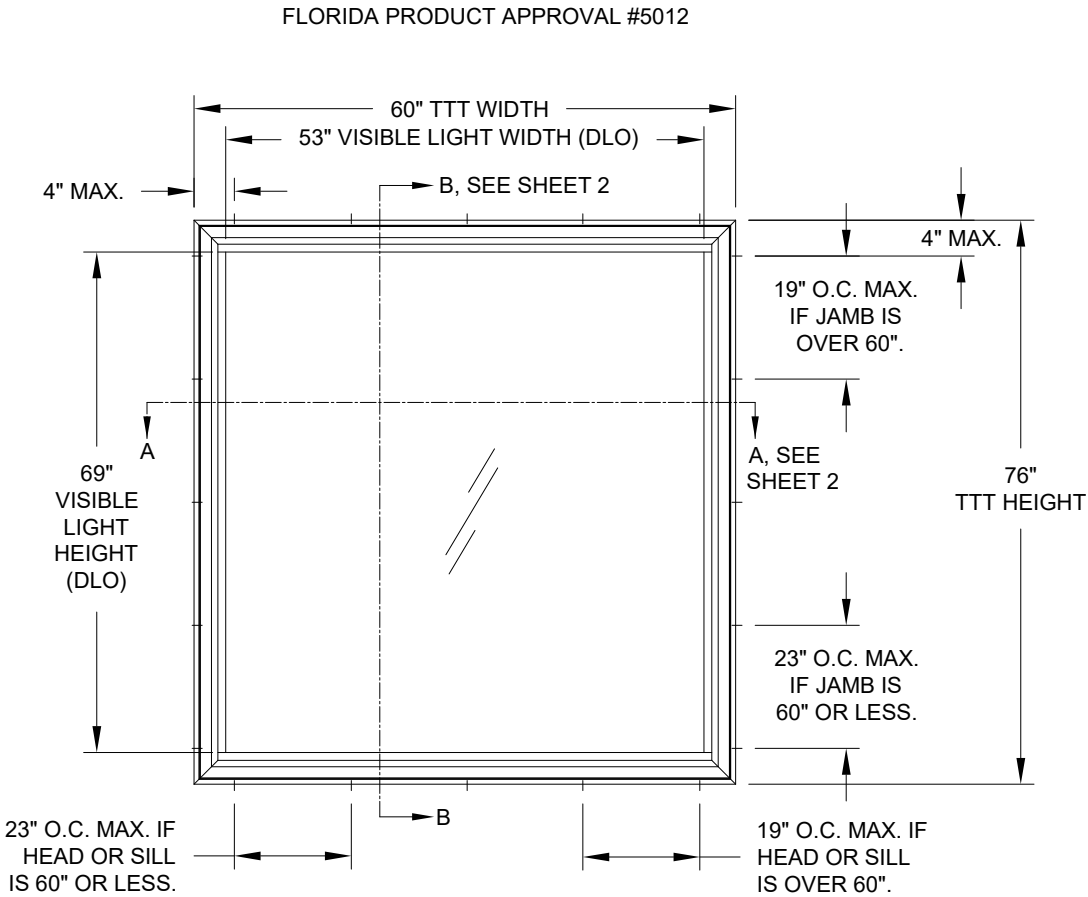
6) 1/4" MAX. SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. FOR INTEGRAL FIN FRAMES INSTALL SHIMS AT MAX. 18" O.C. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.

7) DESIGN PRESSURES:
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.

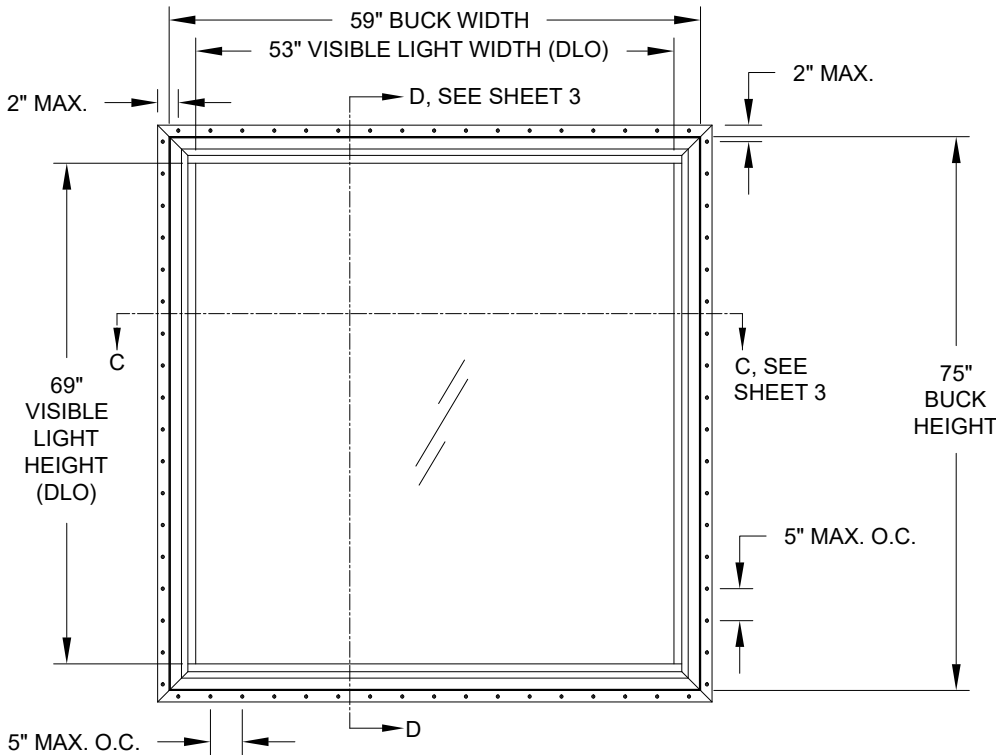
8) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

9) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE.

Glass Types		Sheet #
1	1/8" Annealed	7
2	1/8" Tempered	7
3	3/16" Annealed	8
4	3/16" Tempered	10
5	1/4" Annealed	8
6	1/4" Tempered	10
7	9/16" IG: (1/8" An - 5/16" Air - 1/8" An)	8
8	9/16" IG: (1/8" T - 5/16" Air - 1/8" T)	8
9	7/8" IG: (3/16" An - 1/2" Air - 3/16" An)	9
10	7/8" IG: (3/16" T - 1/2" Air - 3/16" T)	9 & 10



TYP. FLANGE FRAME ELEVATION

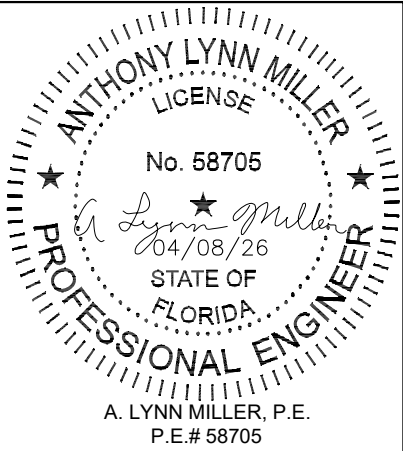


TYP. FIN FRAME ELEVATION

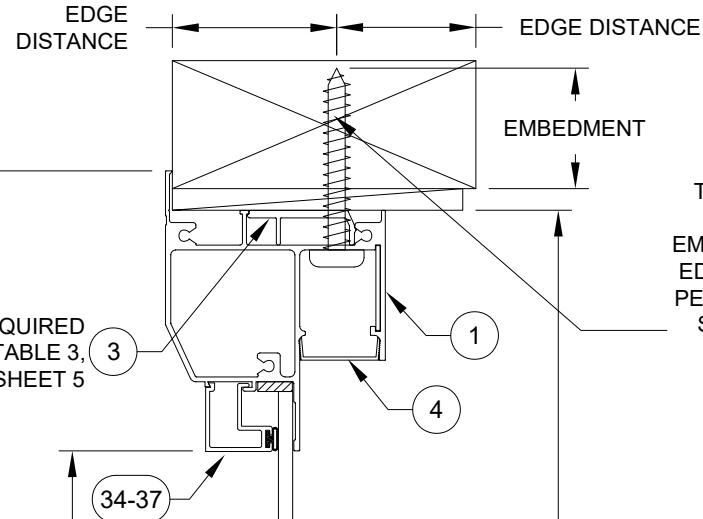
GENERAL NOTES.....	1
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ANCHOR SPECIFICATIONS.....	5
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DESIGN PRESSURES.....	7-10
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DESIGN PRESSURE RATING	IMPACT RATING
VARIES, SEE SHEETS 7-10	NON-IMPACT RESISTANT

PREPARED BY A. LYNN MILLER 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600 COPYRIGHT © 2026 PGT INDUSTRIES, LLC LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	No. 04/08/26		By COLTON KEMPf	DWG No. PW640-FPA	
	Date				
PGT [®] WINDOWS and DOORS 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	ALUMINUM FIXED CASEMENT WINDOW (NI)		GENERAL NOTES & ELEVATION	PW640	
	Date				
Sheet		1 OF 11		Series Desc. Title	
Title		PW640-FPA			

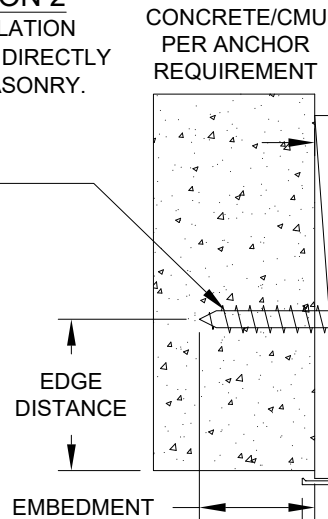


INSTALLATION
OPTION 1
INSTALLATION ANCHORS
INTO 2X WOOD.

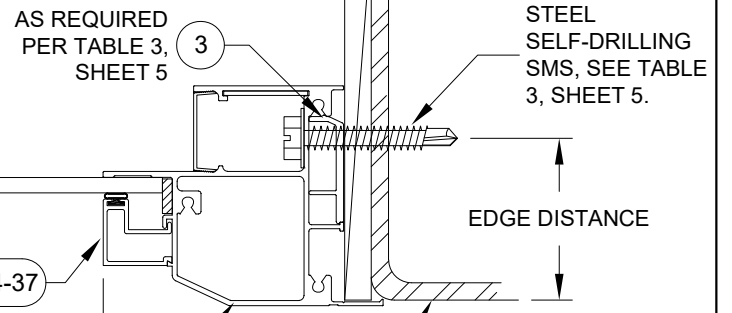


INSTALLATION
OPTION 2
INSTALLATION
ANCHORS DIRECTLY
INTO MASONRY.

TYP. ANCHOR
TYPE,
EMBEDMENT AND
EDGE DISTANCE
PER SUBSTRATE,
SEE TABLE 3,
SHEET 5.



INSTALLATION
OPTION 4
INSTALLATION
ANCHORS DIRECTLY
INTO METAL.



HORIZONTAL SECTION A-A

FBC APPROVED
MULLION, ALUMINUM,
STEEL FRAMING OR
STEEL STUD.

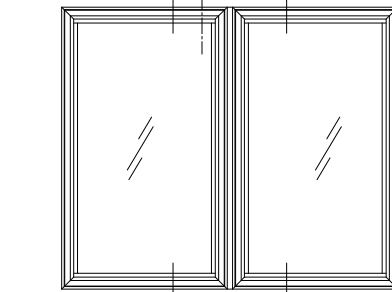
VISIBLE LIGHT FORMULAS
WIDTH: TIP-TO-TIP WIDTH - 7
HEIGHT: TIP-TO-TIP HEIGHT - 7

NOTES:

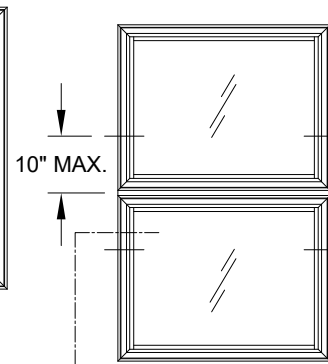
1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 3, SHEET 5. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.

2) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL. UNIT MAY BE INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD. MAXIMUM SHIM THICKNESS TO BE 1/4".

SEE DETAIL
A1, BELOW

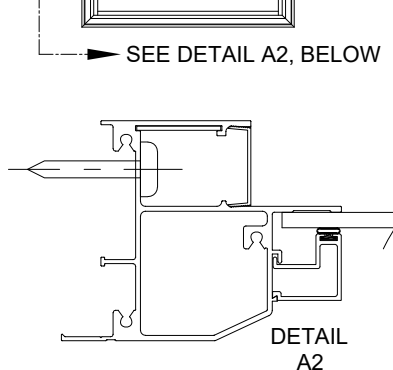
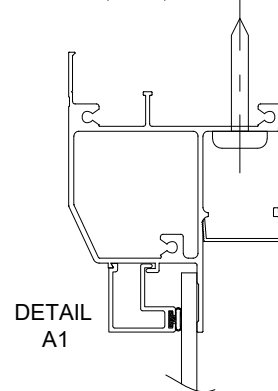


10" MAX.



10" MAX.

SEE DETAIL A2, BELOW

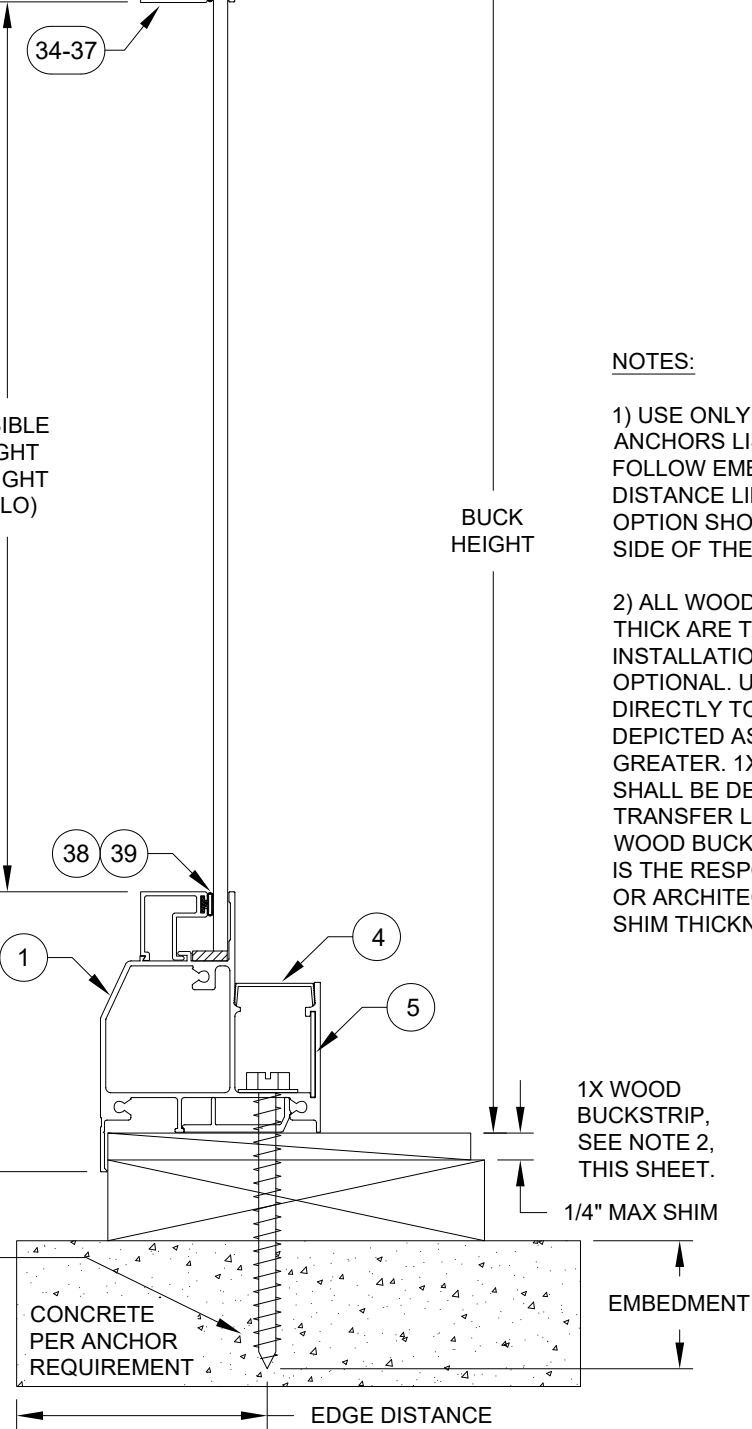


NOTES:

1) WHEN INSTALLING COMBINATION UNITS WITH FLANGE FRAMES, ADDITIONAL INSTALLATION ANCHORS MAY NEED TO BE INSTALLED THROUGH THE WINDOW FRAMES AT 10" MAX. FROM EACH SIDE OF THE FRAME ASSEMBLY TUBE CENTERLINE. SEE TABLE BELOW:

Additional Anchors Required on each Side of the Frame Assembly Tube (FAT)			
Vert. FAT	Window Width	Anchor Type	
		A	B, C & D
	17" - 25.9"	1	0
	26"+	1	1
Horiz. FAT	Window Height	Anchor Type	
		A	B, C & D
	17" - 25.9"	1	0
	26"+	1	1

INSTALLATION OPTION 3
INSTALLATION ANCHORS THROUGH
1X BUCKSTRIP INTO MASONRY.



VERTICAL SECTION B-B

PREPARED BY A. LYNN MILLER
3400 PRECISION DRIVE
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PGT[®] WINDOWS and DOORS
3400 PRECISION DRIVE
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(941) 480-1600

DATE: 04/08/26
BY: COLTON KEMPFF

ALUMINUM FIXED CASEMENT WINDOW (NI)
FLANGE INSTALL. DETAILS

REGISTRATION #29296

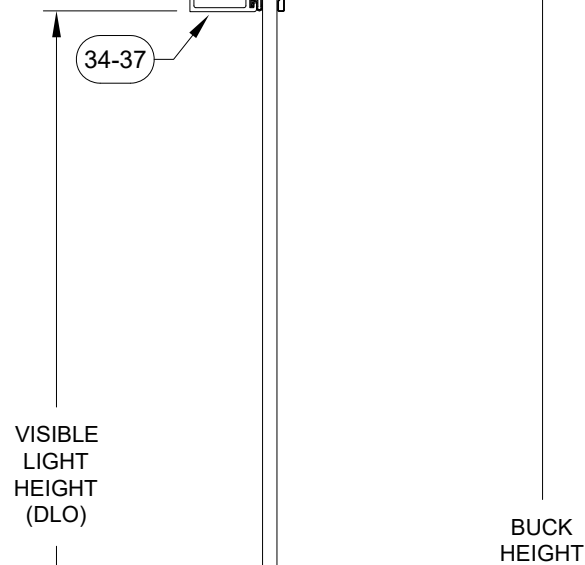
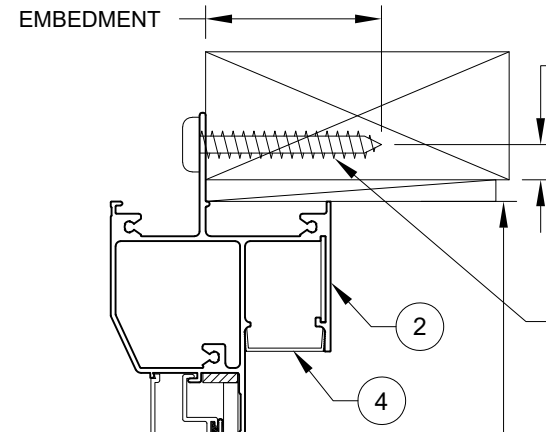
PW640-FPA

2 OF 11

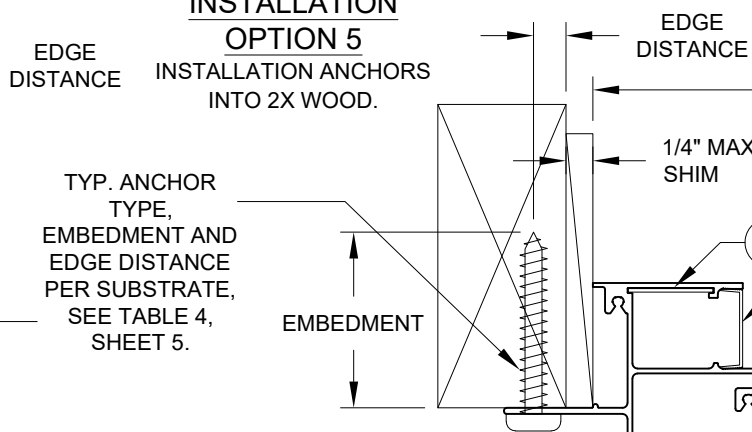
PW640

ANTHONY LYNN MILLER
LICENSE
No. 58705
04/08/26
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

INSTALLATION
OPTION 5
INSTALLATION ANCHORS
INTO 2X WOOD.



INSTALLATION
OPTION 5
INSTALLATION ANCHORS
INTO 2X WOOD.

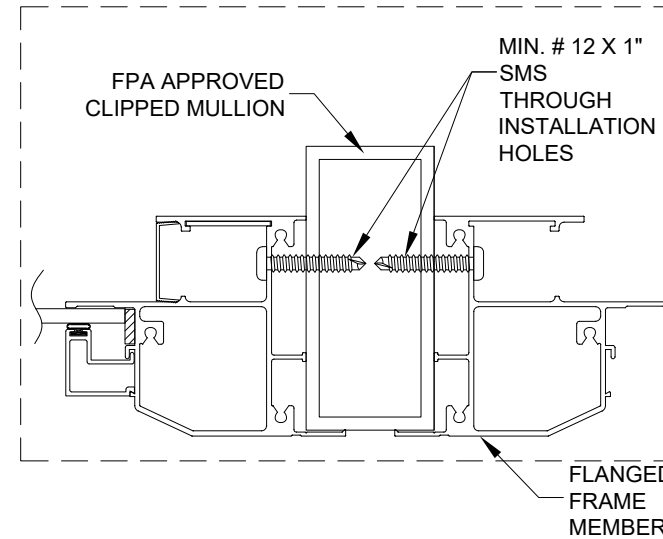


NOTES:

1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 4, SHEET 5. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.

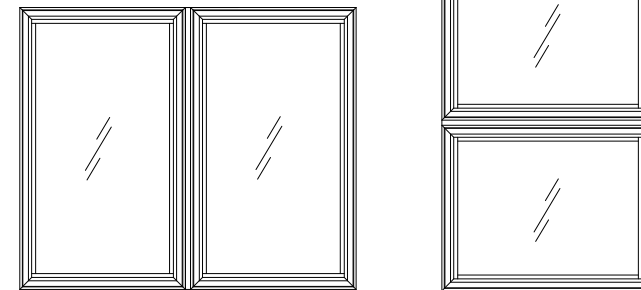
2) MAXIMUM SHIM THICKNESS TO BE 1/4". FOR INTEGRAL FIN FRAMES INSTALL SHIMS AT MAX. 18" O.C.

CLIPPED
TUBE
MULLION
DETAILS:



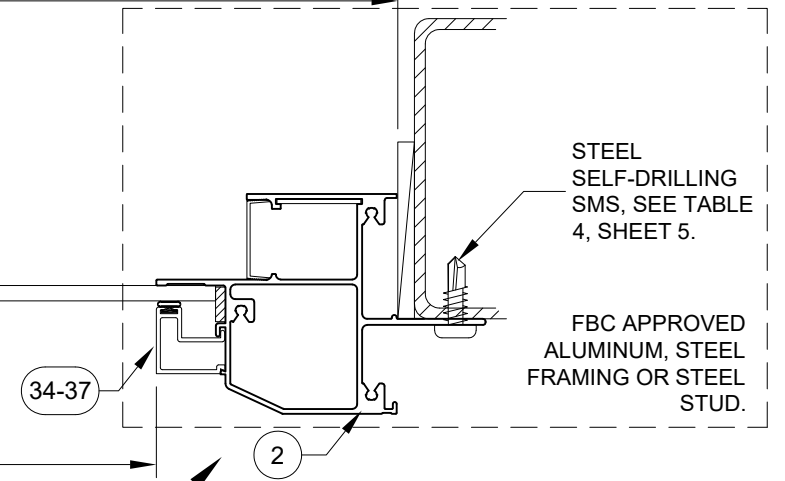
CLIPPED TUBE MULLIONS MAY BE USED WITH FIN FRAME WINDOWS IF THE FRAME MEMBER THAT IS ATTACHED TO THE MULLION IS FLANGED. SEE MULLION APPROVAL FOR DP AND LENGTH LIMITATIONS. DETAILS APPLIES TO BOTH HORIZONTAL AND VERTICAL MULLION APPLICATIONS.

FRAME
ASSEMBLY
TUBE (FAT)
DETAILS:



WHEN INSTALLING FIN FRAME COMBINATION UNITS, ADDITIONAL INSTALLATION ANCHORS THROUGH THE FIN ARE NOT REQUIRED. INSTALL EACH WINDOW AS PER SHEETS 1 & 4.

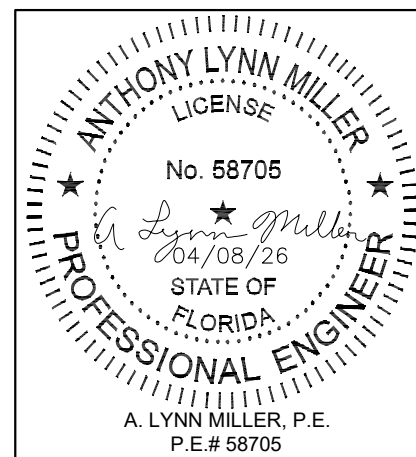
INSTALLATION
OPTION 6
INSTALLATION
ANCHORS INTO METAL.



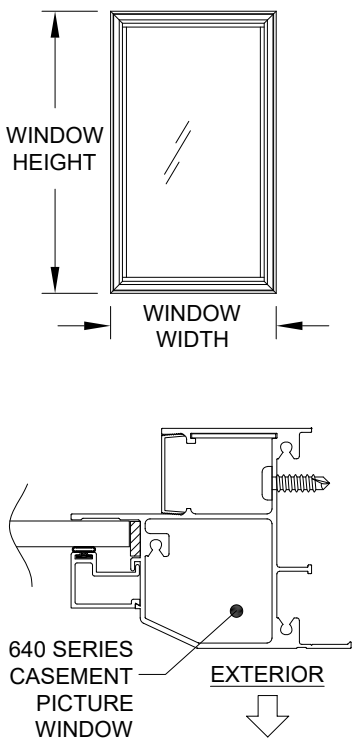
HORIZONTAL SECTION C-C

VISIBLE LIGHT FORMULAS
WIDTH: BUCK WIDTH - 6
HEIGHT: BUCK HEIGHT - 6

PGT [®] WINDOWS and DOORS		3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		PREPARED BY A. LYNN MILLER 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600	
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ALUMINUM FIXED CASEMENT WINDOW (NI)		By Dawn		Date 04/08/26	
FIN INSTALL. DETAILS		COLTON KEMPFF			
PW640		3 OF 11		PW640-FPA	
Sheet		DWG		No.	

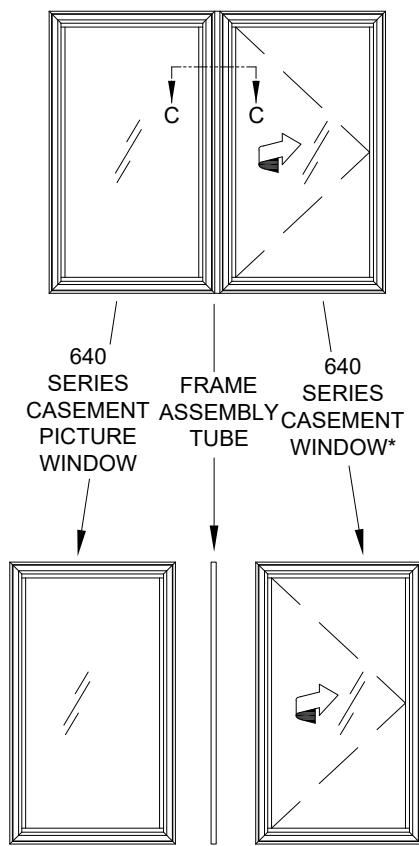


CASEMENT PICTURE WINDOW (O)



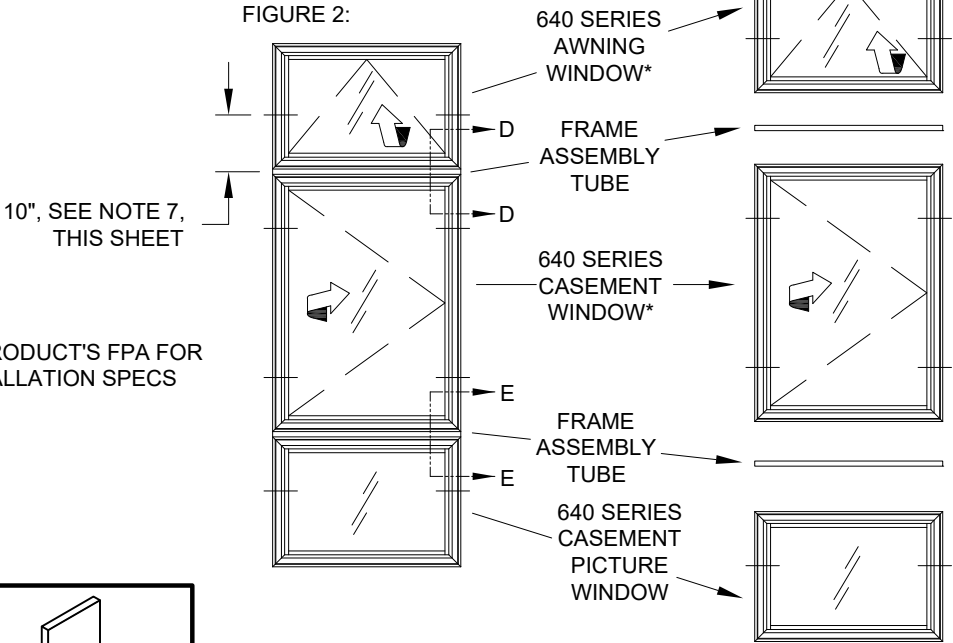
CASEMENT PICTURE WINDOW / CASEMENT (OX)

FIGURE 1:



AWNING / CASEMENT / CASEMENT PICTURE WINDOW (XXO)

FIGURE 2:



FRAME ASSEMBLY TUBE NOTES:

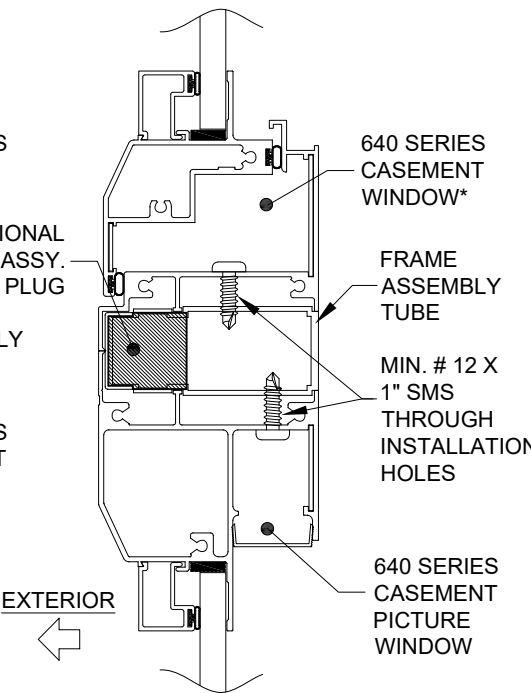
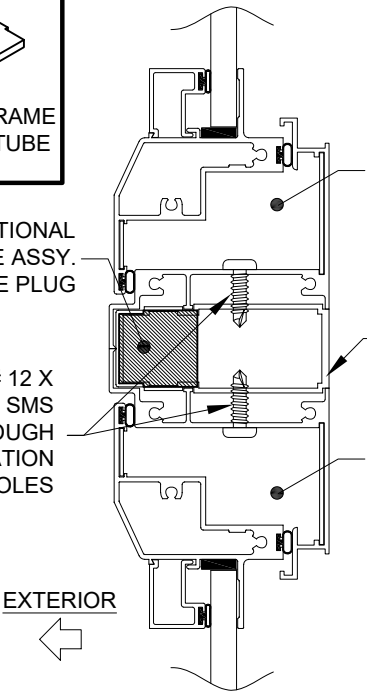
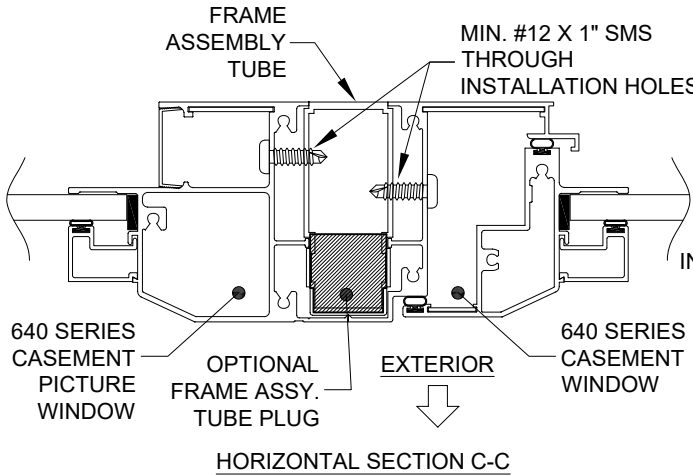
- 1) DIMENSIONS SHOWN ARE TIP-TO-TIP DIMENSIONS FOR EACH INDIVIDUAL WINDOW. FOR NAIL FIN WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLES TO DETERMINE THE WINDOW SIZE. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLES.
- 2) ANY 640-SERIES PRODUCT (CASEMENT, AWNING OR CASEMENT PICTURE WINDOW) MAY BE ATTACHED TO THE FRAME ASSEMBLY TUBE. FOR ALL WINDOWS, USE THE WINDOW'S FPA FOR ANCHORAGE, SIZE AND DESIGN PRESSURE LIMITATIONS.
- 3) ALL WINDOWS IN THE COMBINATION UNIT MUST BE ABLE TO INDIVIDUALLY COMPLY WITH THE REQUIREMENTS OF THEIR RESPECTIVE FPA.
- 4) FRAME ASSEMBLY TUBE TO BE FASTENED TO WINDOW, AS SHOWN IN DETAILS, WITH MIN. #12 X 1" SHEET METAL SCREWS. FOR FLANGE FRAME, USE THE SAME SPACING AND QUANTITY AS THE OPPOSITE FRAME MEMBER. FOR INTEGRAL FIN FRAME COMBINATION UNITS, FLANGE FRAME IS USED AT THE FRAME ASSEMBLY TUBE WITH ANCHOR GROUP D SPACING.
- 5) THE FRAME ASSEMBLY TUBE MAY NOT EXCEED 62" IN LENGTH (AS USED IN A 63" FLANGED WINDOW) OR BE USED IN TEE OR CROSS CONFIGURATIONS.
- 6) THE FRAME ASSEMBLY TUBE IS NOT REQUIRED TO BE CLIPPED TO THE SUBSTRATE. ALL EXTERIOR JOINTS TO BE SEALED BY INSTALLER.
- 7) FOR FLANGE FRAME COMBINATION UNITS, ADDITIONAL INSTALLATION ANCHORS MAY NEED TO BE INSTALLED THROUGH THE WINDOW FRAMES AT 10" MAX. FROM EACH SIDE OF THE FRAME ASSEMBLY TUBE CENTERLINE. SEE TABLE BELOW: NO ADDITIONAL ANCHORS REQUIRED FOR FIN FRAME COMBINATION UNITS.

FOR SINGLE UNITS:

- 1) DETERMINE YOUR WINDOW SIZE, FRAME TYPE, AND GLASS.
- 2) KNOWING YOUR ANCHOR TYPE AND SUBSTRATE, DETERMINE YOUR ANCHOR GROUP FROM TABLES 3 AND 4, SHEET 5.
- 3) FROM SHEETS 7-10, FIND THE SHEET FOR YOUR GLASS TYPE. FIND THE PRODUCT'S DESIGN PRESSURE FROM THE TABLE LABELED "DESIGN PRESSURE (PSF) FOR SINGLE WINDOWS."
- 4) DIMENSIONS SHOWN ARE TIP-TO-TIP. FOR NAIL FIN WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLES TO DETERMINE THE WINDOW SIZE. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLES.
- 5) FOR FLANGE FRAMES, USING THE TABLES LABELED "WINDOW ANCHORS REQUIRED" (TABLES 2A & 2B, SHEETS 5 & 6), DETERMINE THE NUMBER OF ANCHORS NEEDED IN THE HEAD, SILL AND JAMBS OF YOUR WINDOW.
- 6) INSTALL AS PER THE INSTRUCTIONS ON SHEETS 2 & 3.

FOR EACH WINDOW IN A COMBINED ASSEMBLY:

- 1) DETERMINE EACH INDIVIDUAL WINDOW TYPE, SIZE AND GLASS MAKEUP, SEE FIGURES 1 & 2, THIS SHEET. DETERMINE YOUR ANCHOR GROUP FROM TABLES 3 AND 4.
- 2) FROM SHEETS 7-10, FIND THE SHEET FOR YOUR GLASS AND FRAME TYPE.
- 3) FIND THE DESIGN PRESSURE FROM THE TABLES LABELED "DESIGN PRESSURE (PSF) FOR WINDOWS ATTACHED TO A FRAME ASSEMBLY TUBE". THIS MUST BE DONE FOR EACH WINDOW IN THE ASSEMBLY, AND THE LOWEST DESIGN PRESSURE APPLIES TO THE ENTIRE ASSEMBLY. DIMENSIONS SHOWN ARE TIP-TO-TIP. FOR NAIL FIN WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLES TO DETERMINE THE WINDOW SIZE. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLES.
- 4) FOR FLANGE FRAMES, USING THE TABLE LABELED "WINDOW ANCHORS REQUIRED" (TABLES 2A & 2B, SHEETS 5 & 6), DETERMINE THE NUMBER OF ANCHORS NEEDED IN THE HEAD, SILL AND JAMBS OF YOUR WINDOW.
- 5) INSTALL AS PER THE INSTRUCTIONS ON SHEETS 2-3. NOTE THAT ADDITIONAL ANCHORS THROUGH THE WINDOW FRAME INTO THE SUBSTRATE MAY BE REQUIRED (SEE SHEET 2), AND THAT MIN. # 12 X 1" ANCHORS ARE TO BE USED THROUGH THE FRAME INTO THE FRAME ASSEMBLY TUBE (SEE DETAILS ON THIS SHEET).



Additional Anchors Required on each Side of the Frame Assembly Tube (FAT)			
Vert. FAT	Window Width	Anchor Type	
		A	B, C & D
	17" - 25.9"	1	0
Horiz. FAT	Window Height	Anchor Type	
		A	B, C & D
	17" - 25.9"	1	0
	26"+	1	1

PREPARED BY A. LYNN MILLER
3400 PRECISION DRIVE
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PGT WINDOWS and DOORS
3400 PRECISION DRIVE
N. VENICE, FL 34275
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REGISTRATION #29296

ALUMINUM FIXED CASEMENT WINDOW (NI)
04/08/26
DATE
COLTON KEMPf
DRAWN BY
FRAME ASSEMBLY TUBE
DETAILS
PW640
SHEET
4 OF 11
DWG No.
PW640-FPA

ANTHONY LYNN MILLER
LICENSE
No. 58705
04/08/26
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

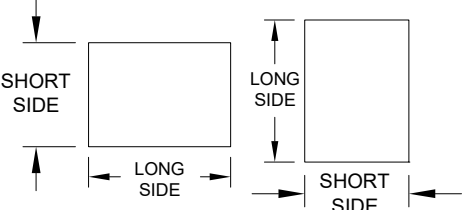
TABLE 2A:

Window Anchors Required for Through-Frame Installation (37" and Less on Short Side Dimension)																																		
Anchor Type			Short Side																															
			under 23"				25-15/16"				27-3/4"				29"				31-1/2"				33-1/2"				34"				37"			
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D				
Long Side	under 23"	Long Side	2	2	2	2																												
		Short Side	2	2	2	2																												
	25-15/16"	Long Side	3	2	2	2	3	2	2	2																								
		Short Side	2	2	2	2	3	2	2	2																								
	35"	Long Side	4	3	3	3	5	3	3	3	5	3	3	3	5	3	3	3	5	3	3	3	5	3	3	3	5	3	3	3				
		Short Side	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	3	3	5	3	3	3	5	3	3	3				
	37"	Long Side	5	3	3	3	5	3	3	3	5	3	3	3	5	3	3	3	5	4	3	3	5	4	3	3	5	4	3	3	5	4	3	3
		Short Side	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	3	3	5	3	3	3	5	3	3	3	5	4	3	3
	44"	Long Side	6	4	3	3	6	4	3	3	6	4	4	3	7	4	4	3	7	5	4	3	7	5	4	3	7	5	4	3	7	5	4	3
		Short Side	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	3	3	5	3	3	3	5	3	3	3	5	4	3	3
	44-1/4"	Long Side	6	4	3	3	6	4	4	3	7	4	4	3	7	4	4	3	7	5	4	3	7	5	4	3	7	5	4	3	7	5	4	3
		Short Side	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	3	3	5	3	3	3	5	3	3	3	5	4	3	3
	53-1/8"	Long Side	7	5	4	3	8	5	4	3	8	5	5	3	8	5	5	3	9	6	5	3	9	6	5	3	9	6	5	3	10	6	5	3
		Short Side	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	3	3	5	3	3	3	5	3	3	3	5	4	3	3
	58"	Long Side	8	5	4	4	9	6	5	4	9	6	5	4	10	6	5	4	10	6	5	4	10	7	6	4	10	7	6	4	11	7	6	4
		Short Side	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	3	3	5	3	3	3	5	3	3	3	5	4	3	3
	63"	Long Side	9	6	5	4	10	6	5	4	10	7	6	4	11	7	6	4	11	7	6	4	12	7	6	4	12	7	6	4	12	8	7	4
		Short Side	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	3	3	5	3	3	3	5	3	3	3	5	4	3	3
	66-13/16"	Long Side	10	6	5	5	10	7	6	5	11	7	6	5	11	7	6	5	12	8	6	5	12	8	7	5	13	8	7	5	13	8	7	5
		Short Side	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	3	3	5	3	3	3	5	3	3	3	5	4	3	3
67-1/2"	Long Side	10	6	5	5	11	7	6	5	11	7	6	5	11	7	6	5	12	8	7	5	13	8	7	5	13	8	7	5	13	9	7	5	
	Short Side	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	3	3	5	3	3	3	5	3	3	3	5	4	3	3	
68"	Long Side	10	6	5	5	11	7	6	5	11	7	6	5	12	7	6	5	12	8	7	5	13	8	7	5	13	8	7	5	14	9	7	5	
	Short Side	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	3	3	5	3	3	3	5	3	3	3	5	4	3	3	
70"	Long Side	10	6	6	5	11	7	6	5	12	7	6	5	12	8	6	5	13	8	7	5	13	8	7	5	13	9	7	5	14	9	8	5	
	Short Side	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	3	3	5	3	3	3	5	3	3	3	5	4	3	3	
72"	Long Side	10	7	6	5	11	7	6	5	12	8	7	5	12	8	7	5	13	8	7	5	14	9	7	5	14	9	7	5	15	9	8	5	
	Short Side	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	3	3	5	3	3	3	5	3	3	3	5	4	3	3	
74"	Long Side	11	7	6	5	12	8	6	5	12	8	7	5	13	8	7	5	14	9	7	5	14	9	8	5	14	9	8	5	15	10	8	5	
	Short Side	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	3	3	5	3	3	3	5	3	3	3	5	4	3	3	
76"	Long Side	11	7	6	5	12	8	7	5	13	8	7	5	13	8	7	5	14	9	8	5	15	9	8	5	15	9	8	5	16	10	8	5	
	Short Side	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	3	3	5	3	3	3	5	3	3	3	5	4	3	3	
84"	Long Side	12	8	7	5	14	9	7	5	14	9	8	5	15	9	8	5	16	10	8	6	17	11	9	6	17	11	9	6	18	11	10	6	
	Short Side	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	3	3	5	3	3	3	5	3	3	3	5	4	3	3	
114"	Long Side	17	11	9	7	19	12	10	7	20	13	11	7	21	13	11	7	23	14	12	8	24	15	13	8	24	15	13	8	26	16	14	9	
	Short Side	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	3	3	5	3	3	3	5	3	3	3	5	4	3	3	
134"	Long Side	21	13	11	8	23	14	12	8	24	15	13	8	25	16	13	9	27	17	14	9	29	18	15	10	29	18	15	10					
	Short Side	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	3	3	5	3	3	3	5	3	3	3					
145"	Long Side	22	14	12	9	25	16	13	9	26	17	14	9	28	17	15	9	29	19	16	10													
	Short Side	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	3	3													

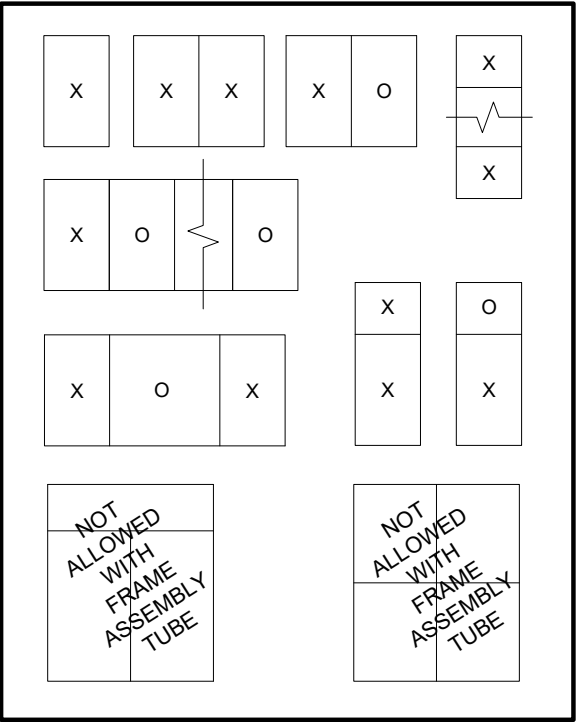
1) USE THIS TABLE FOR ALL FLANGE FRAME WINDOWS PER THE ELEVATIONS ON SHEET 1. DIMENSIONS SHOWN ARE TIP-TO-TIP.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG SIDE DIMENSION SHOWN ON THE TABLE.

3) TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN:



SAMPLE CONFIGURATIONS:



1) OPERABLE (X) WINDOWS MAY BE CASEMENT WINDOWS OR AWNING WINDOWS OF THE SAME SERIES.

TABLE 3: THROUGH-FRAME ANCHORS

Group	Anchor	Substrate	Min. Edge Distance	Min. O.C. Distance	Min. Embedment	Anchor Plate Required?
A	#12 steel SMS (G5) or #14 steel SMS (G5) or #14 410 SS SMS	S. Pine	5/8"	1"	1-3/8"	No
		6063-T5 Alum.	3/8"	5/8"	.063"	No
		A36 Steel	3/8"	5/8"	.050"	No
		A653 Stud, Gr. 33	3/8"	5/8"	.045", 20 Ga.	No
	1/4" steel Ultracon+	3k Concrete	1"	3"	1-3/4"	No
		Hollow Block	1"	3"	1-1/4"	No
		S. Pine	1"	1"	1-3/8"	No
B	1/4" steel Ultracon	2.85k Concrete	2-1/2"	4"	1-3/8"	No
		Hollow Block	1"	6"	1-1/4"	No
		Hollow Block	2-1/2"	5"	1-1/4"	No
C	1/4" steel Ultracon	Hollow Block	1"	6"	1-1/4"	Yes
	1/4" steel Ultracon+	3k Concrete	1"	4"	1-3/8"	Yes
		Hollow Block	1"	3"	1-1/4"	Yes
	1/4" 410 SS CreteFlex	3.35k Concrete	1"	5"	1-3/4"	No
		Hollow Block	2-1/2"	5"	1-1/4"	No

TABLE 3: (cont.)

Group	Anchor	Substrate	Min. Edge Distance	Min. O.C. Distance	Min. Embedment	Anchor Plate Required?
D	#12 steel SMS (G5) or #12 410 SS SMS or #14 steel SMS (G5) or #14 410 SS SMS	S. Pine	5/8"	1"	1-3/8"	Yes
		6063-T5 Alum.	3/8"	5/8"	.0713"	Yes
		A36 Steel	3/8"	5/8"	.050"	Yes
		A653 Stud, Gr. 33	3/8"	5/8"	.045", 18 Ga.	Yes
		2.85k Concrete	1"	4"	1-3/4"	Yes
		2.85k Concrete	2-1/2"	4"	1-3/8"	Yes
	1/4" steel Ultracon	Hollow Block	2-1/2"	5"	1-1/4"	Yes
		Filled Block	2-1/2"	4"	1-3/4"	Yes
		3.35k Concrete	1"	6"	1-3/4"	Yes
		3.35k Concrete	2-1/2"	6"	1"	Yes
	1/4" 410 SS CreteFlex	Hollow Block	2-1/2"	6"	1-1/4"	Yes
		3.5k Concrete	1-1/4"	5"	1-3/4"	No
		Hollow Block	3-1/8"	5"	1-1/4"	No
	5/16" steel Ultracon	Filled Block	2-1/2"	5"	1-3/4"	No
		3k Concrete	1-5/16"	4"	1-3/8"	Yes
		Hollow Block	1-3/4"	3"	1-1/4"	Yes
	1/4" steel Ultracon+	S. Pine	1"	1"	1-3/8"	Yes

TABLE 4: THROUGH-FIN ANCHORS

Group	Anchor	Substrate	Min. Edge Distance	Max. O.C. Spacing	Min. Embedment
E	2-1/2" x .113" Box Nail	S. Pine	5/16"	5"	2-7/16"
		S. Pine	3/8"	5"	2-7/16"
		S. Pine	3/8"	5"	2-7/16"
	#10 x 1" Steel SMS	S. Pine	1/2"	5"	1-3/8"
		6063-T5 Alum.	3/8"	5"	.093"
		A36 Steel	5/16"	5"	.0346" (20 Ga.)
		A653 Stud, Gr. 33	5/16"	5"	.0451" (18 Ga.)

1) WHERE SUBSTRATE CONDITIONS REQUIRE ANCHORAGE FROM MORE THAN ONE OF THE ANCHOR GROUPS, CHOOSE THE ANCHOR GROUP OF THE LOWEST LETTER FOR ALL SUBSEQUENT TABLES IN THIS APPROVAL.

2) ANCHOR MUST EXTEND A MIN. OF 3 THREADS BEYOND ANY METAL SUBSTRATE.

3) ALL ANCHOR HEAD TYPES ARE ACCEPTABLE.

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3400 PRECISION DRIVE
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(941) 480-1600

REGISTRATION #29296

ALUMINUM FIXED CASEMENT WINDOW (NI)

ANCHOR TYPE & QUANTITY

04/08/26

COLTON KEMPf

PW640-FPA

TABLE 2B: Window Anchors Required for Through-Frame Installation (Over 37" on Short Side Dimension)

Anchor Type			Short Side																																																																																																							
			40"				44"				48-1/4"				53-1/8"				54"				58"				60"				63"				67-1/2"																																																																							
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D																																																																								
Long Side	under 23"	Long Side																																																																																																								
		Short Side																																																																																																								
	25-15/16"	Long Side																																																																																																								
		Short Side																																																																																																								
	35"	Long Side																																																																																																								
		Short Side																																																																																																								
	37"	Long Side																																																																																																								
		Short Side																																																																																																								
	44"	Long Side																																	7	5	4	3	7	5	4	3																																																																
		Short Side																																	6	4	3	3	7	5	4	3																																																																
	44-1/4"	Long Side	7	5	4	3	7	5	4	3																																																																																																
		Short Side	6	4	3	3	7	5	4	3																																																																																																
	53-1/8"	Long Side	10	6	5	4	10	7	6	4																					10	7	6	4	11	7	6	4																																																																				
		Short Side	6	4	3	3	7	5	4	3																					9	6	5	3	11	7	6	4																																																																				
	58"	Long Side	11	7	6	4	12	8	6	4																					12	8	7	4	12	8	7	4																																					12	8	7	4	13	8	7	4																								
		Short Side	6	4	3	3	7	5	4	3																					9	6	5	3	11	7	6	4																																					11	7	6	4	13	8	7	4																								
	63"	Long Side	13	8	7	5	13	9	7	5																					14	9	7	5	14	9	8	5																																					14	9	8	5	15	9	8	5													15	9	8	5	15	9	8	5				
		Short Side	6	4	3	3	7	5	4	3																					9	6	5	3	11	7	6	4																																					11	7	6	4	13	8	7	4													13	9	7	5	15	9	8	5				
	66-13/16"	Long Side	14	9	7	5	15	9	8	5																					15	10	8	5	16	10	8	5					16	10	8	5	16	10	8	5	16	10	8	5	16	10	8	5	15	10	8	5																																												
		Short Side	6	4	3	3	7	5	4	3																					9	6	5	3	10	7	6	4					11	7	6	4	12	8	7	4	13	8	7	5	14	9	8	5	16	10	8	6																																												
67-1/2"	Long Side	14	9	8	5	15	9	8	5	15	10	8	5	16	10	8	6	16	10	8	6	16	10	8	6	16	10	8	6	16	10	8	6	16	10	8	6																																																																					
	Short Side	6	4	3	3	7	5	4	3	9	6	5	3	10	7	6	4	11	7	6	4	12	8	7	4	13	8	7	5	14	9	7	5	16	10	8	6																																																																					
68"	Long Side	14	9	8	5	15	10	8	5	16	10	8	5	16	10	9	6	16	10	9	6	16	10	9	6	16	10	9	6	16	10	9	6																																																																									
	Short Side	6	4	3	3	7	5	4	3	9	6	5	3	10	7	6	4	11	7	6	4	12	8	6	4	13	8	7	4	14	9	7	5																																																																									
70"	Long Side	15	9	8	5	16	10	8	5	16	10	9	6	16	10	9	6	16	10	9	6	16	10	9	6	16	10	9	6	16	10	9	6																																																																									
	Short Side	6	4	3	3	7	5	4	3	9	6	5	3	10	7	6	4	10	7	6	4	12	7	6	4	12	8	7	4	13	9	7	5																																																																									
72"	Long Side	15	10	8	5	16	10	9	6	17	11	9	6	17	11	9	6	17	11	9	6	17	11	9	6	17	11	9	6	17	11	9	6																																																																									
	Short Side	6	4	3	3	7	5	4	3	9	6	5	3	10	6	5	4	10	7	6	4	12	7	6	4	12	8	7	4	13	8	7	5																																																																									
74"	Long Side	16	10	9	6	17	11	9	6	17	11	9	6	17	11	9	6	17	11	9	6	17	11	9	6	17	11	9	6																																																																													
	Short Side	6	4	3	3	7	5	4	3	9	6	5	3	10	6	5	4	10	7	6	4	11	7	6	4	12	8	6	4																																																																													
76"	Long Side	16	10	9	6	17	11	9	6	18	11	9	6	18	11	9	6	18	11	9	6	18	11	9	6	18	11	9	6																																																																													
	Short Side	6	4	3	3	7	5	4	3	9	5	5	3	10	6	5	4	10	6	5	4	11	7	6	4	12	8	6	4																																																																													
84"	Long Side	19	12	10	6	20	12	10	7	20	12	10	7	20	12	10	7	20	12	10	7																																																																																					
	Short Side	6	4	3	3	7	5	4	3	8	5	4	3	9	6	5	3	10	6	5	3																																																																																					
114"	Long Side	26	17	14	9																																																																																																					
	Short Side	6	4	3	3																																																																																																					

1) USE THIS TABLE FOR ALL FLANGE FRAME WINDOWS PER THE ELEVATIONS ON SHEET 1. DIMENSIONS SHOWN ARE TIP-TO-TIP.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG SIDE DIMENSION SHOWN ON THE TABLE.

3) TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN:

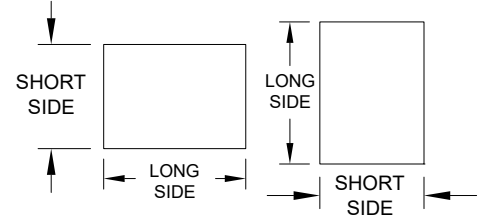
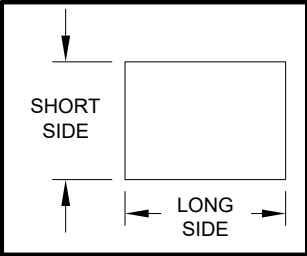


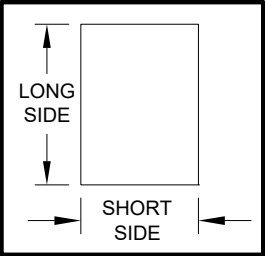
TABLE 5:

		Design Pressure (psf) for Single Windows, All Anchor Groups						
		Short Side						
		under 23"	25-15/16"	27-3/4"	33-1/2"	37"	44"	48-1/4"
Long Side	under 23"	+/- 79.6						
	25-15/16"	+/- 71.5	+/- 70.5					
	37"	+/- 57.7	+/- 54.3	+/- 52.7	+/- 49.9	+/- 49.4		
	44"	+/- 53.9	+/- 50	+/- 48.1	+/- 44.1	+/- 42.7	+/- 41.6	
	48-1/4"	+/- 52.2	+/- 48.2	+/- 46.3	+/- 41.8	+/- 40.1	+/- 38.2	+/- 35.2
	53-1/8"	+/- 49.9	+/- 43.8	+/- 42.9	+/- 39.9	+/- 38		
	58"	+/- 46.9	+/- 39.4	+/- 38.1	+/- 37.9	+/- 36.3		
	63"	+/- 44.5	+/- 36.2	+/- 33.8	+/- 33.6	+/- 33.2		
	76"	+/- 40.7	+/- 30.8	+/- 27.4				
84"	+/- 39.4	+/- 29.3	+/- 25.5					

1) SEE SHEETS 1, 5 & 6 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

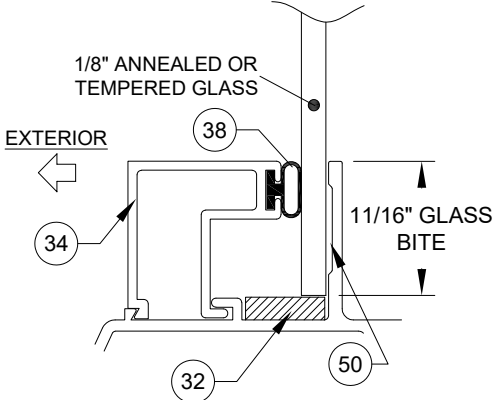
2) TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.





FOR GLASS TYPES:
1) 1/8" Annealed
2) 1/8" Tempered

FOR FRAME TYPES:
FLANGE & INTEGRAL FIN



GLASS TYPES 1 & 2

TABLE 6:

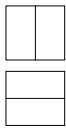
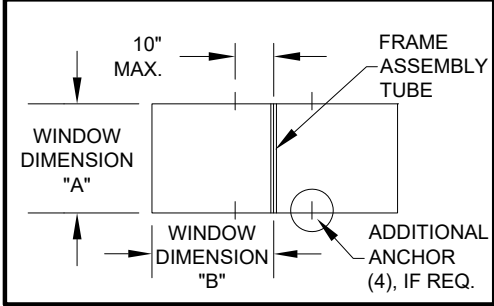
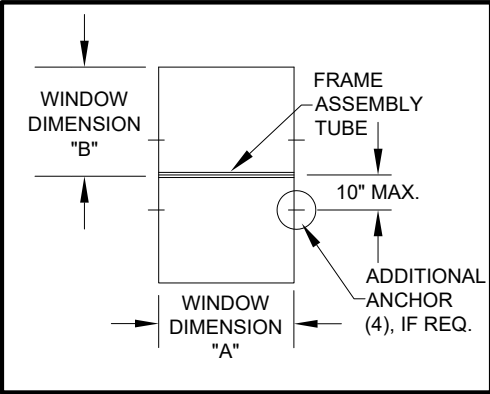
		Design Pressure (psf) for Windows Attached to a Frame Assembly Tube									
		Window Dimension "A"									
		under 23"	25-15/16"	27-3/4"	33-1/2"	37"	44"	48-1/4"	53-1/8"	58"	63"
		Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group
Window Dimension "B"		All	All	All	All	All	All	All	All	All	
	under 23"	+70/-79.6	+70/-71.5	+/-67.9	+/-60.6	+/-57.7	+/-53.9	+/-52.2	+/-49.9	+/-46.9	+/-44.5
	25-15/16"	+70/-71.5	+70/-70.5	+/-66.2	+/-57.6	+/-54.3	+/-50	+/-48.2	+/-43.8	+/-39.4	+/-36.2
	37"	+/-57.7	+/-54.3	+/-52.7	+/-49.9	+/-49.4	+/-42.7	+/-40.1	+/-38	+/-36.3	+/-33.2
	44"	+/-53.9	+/-50	+/-48.1	+/-44.1	+/-42.7	+/-41.6	+/-38.2			
	48-1/4"	+/-52.2	+/-48.2	+/-46.3	+/-41.8	+/-40.1	+/-38.2	+/-35.2			
	53-1/8"	+/-49.9	+/-43.8	+/-42.9	+/-39.9	+/-38					
	58"	+/-46.9	+/-39.4	+/-38.1	+/-37.9	+/-36.3					
	63"	+/-44.5	+/-36.2	+/-33.8	+/-33.6	+/-33.2					
	76"	+/-40.7	+/-30.8	+/-27.4							
84"	+/-39.4	+/-29.3	+/-25.5								

FIGURE FOR VERTICAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 5 & 6 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

FIGURE FOR HORIZONTAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 5 & 6 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

NOTES:

1) SEE SHEET 5 FOR ADDITIONAL SAMPLE CONFIGURATIONS

2) TIP-TO-TIP DIMENSIONS SHOWN. FOR NAIL FIN WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

Rev. #

Date

Rev.

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ALUMINUM FIXED CASEMENT WINDOW (NI)
DESIGN PRESSURES PER
GLAZING TYPE

04/08/26
COLTON KEMPf

PW640-FPA

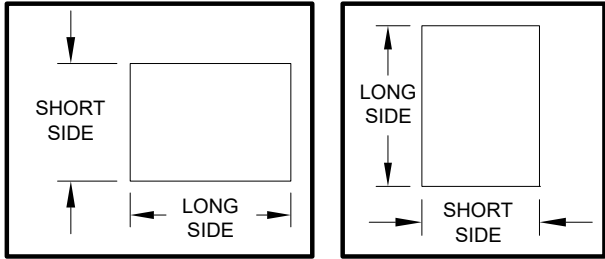
7 OF 11

PW640

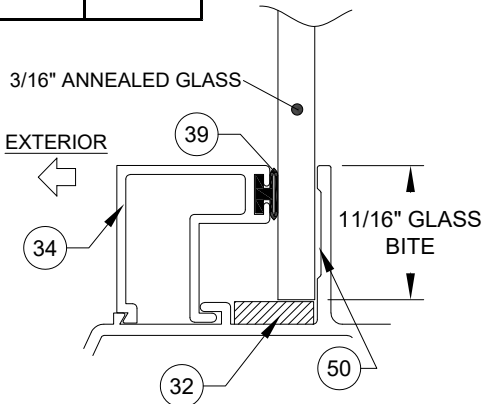
Anthony Lynn Miller
No. 58705
04/08/26
STATE OF FLORIDA
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 7:

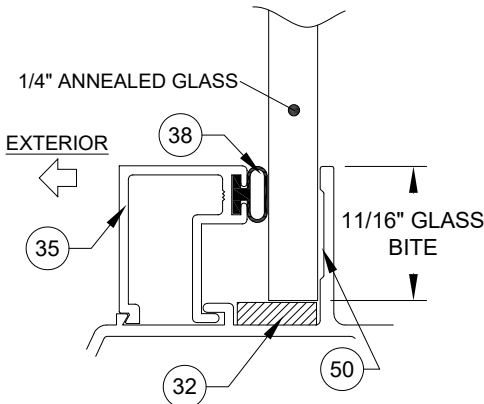
		Design Pressure (psf) for Single Windows, All Anchor Groups									
		Short Side									
		under 23"	25-15/16"	27-3/4"	33-1/2"	37"	44"	48-1/4"	53-1/8"	58"	63"
Long Side	under 23"	+90/-112.1									
	25-15/16"	+90/-100.7	+90/-99.4								
	37"	+/- 81.3	+/- 76.5	+/- 74.3	+/- 70.3	+/- 69.7	+/- 60.1	+/- 56.5	+/- 53.5	+/- 51.1	+/- 49.3
	44"	+/- 75.9	+/- 70.4	+/- 67.8	+/- 62.1	+/- 60.1	+/- 58.6	+/- 53.8	+/- 44.5	+/- 41.9	+/- 40
	48-1/4"	+/- 73.6	+/- 67.9	+/- 65.2	+/- 58.9	+/- 56.5	+/- 53.8	+/- 53.4	+/- 43.5	+/- 40.6	
	53-1/8"	+/- 71.6	+/- 65.8	+/- 62.9	+/- 56.2	+/- 53.5	+/- 44.5	+/- 43.5	+/- 43.2		
	58"	+/- 69.9	+/- 64	+/- 61	+/- 54.1	+/- 51.1	+/- 41.9	+/- 40.6			
	63"	+/- 68.6	+/- 62.6	+/- 59.6	+/- 52.4	+/- 49.3	+/- 40				
	76"	+/- 66	+/- 55.4	+/- 49.3	+/- 43.1	+/- 39.4					
	84"	+/- 64.9	+/- 52.7	+/- 45.8	+/- 37.8						



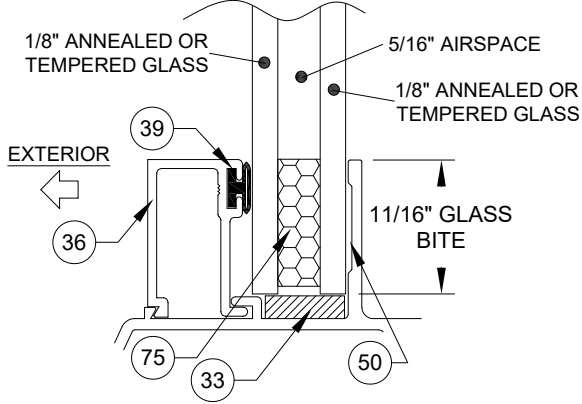
- 1) SEE SHEETS 1, 5 & 6 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.
2) TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.



GLASS TYPE 3



GLASS TYPE 5

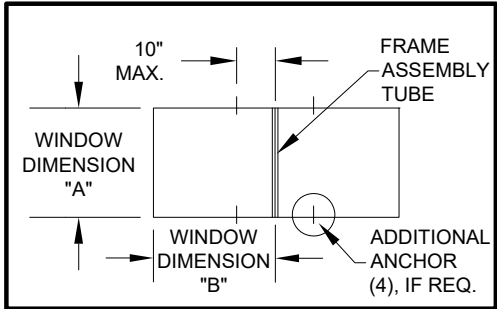


GLASS TYPES 7 & 8
9/16" NOM. GLASS STACK

TABLE 8:

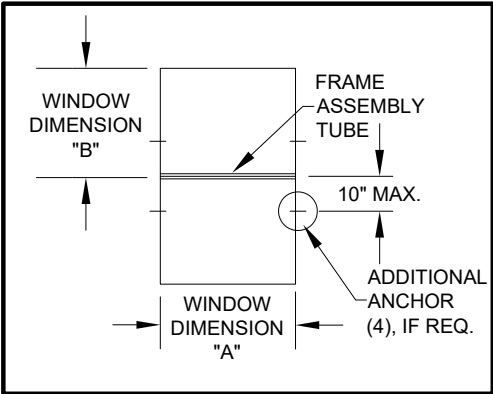
		Design Pressure (psf) for Windows Attached to a Frame Assembly Tube																									
		Window Dimension "A"																									
		under 23"	25-15/16"	27-3/4"	33-1/2"	37"			44"			48-1/4"				53-1/8"				58"				63"			
		Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group			Anchor Group			Anchor Group				Anchor Group				Anchor Group							
All	All	All	All	A	B	C, D, & E	A	B	C, D, & E	A	B	C	D & E	A	B	C	D & E	A	B	C	D & E	A	B	C	D & E		
Window Dimension "B"	under 23"	+70/-90	+70/-90	+70/-90	+70/-85.4	+70/-81.3	+70/-79.2	+70/-81.3	+70/-75.9	+/-66.6	+70/-75.9	+70/-73.6	+/-60.7	+70/-72.7	+70/-73.6	+/-69	+/-55.3	+/-66.1	+70/-71.6	+/-63.1	+/-50.5	+/-60.5	+/-69.9	+/-58.1	+/-46.5	+/-55.7	+/-68.6
	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-81.1	+70/-76.5	+70/-76.5	+70/-76.5	+70/-70.4	+70/-70.4	+70/-70.4	+/-67.1	+/-67.9	+/-67.9	+/-67.9	+/-61.1	+/-65.8	+/-65.8	+/-65.8	+/-55.9	+/-64	+/-64	+/-64	+/-51.5	+/-62.6	+/-62.6	+/-62.6
	37"	+70/-81.3	+70/-76.5	+70/-74.3	+70/-70.3	+/-69.7	+/-69.7	+/-69.7	+/-60.1	+/-60.1	+/-60.1	+/-56.5	+/-56.5	+/-56.5	+/-56.5	+/-53.5	+/-53.5	+/-53.5	+/-53.5	+/-49	+/-51.1	+/-51.1	+/-51.1	+/-45.1	+/-49.3	+/-49.3	+/-49.3
	44"	+70/-75.9	+70/-70.4	+/-67.8	+/-62.1	+/-60.1	+/-60.1	+/-60.1	+/-54.3	+/-58.6	+/-58.6	+/-49.5	+/-53.8	+/-53.8	+/-53.8	+/-45.1	+/-50	+/-50	+/-50	+/-41.2	+/-47.2	+/-47.2	+/-47.2	+/-37.9	+/-45	+/-45	+/-45
	48-1/4"	+70/-73.6	+/-67.9	+/-65.2	+/-58.9	+/-56.5	+/-56.5	+/-56.5	+/-49.5	+/-53.8	+/-53.8	+/-45.1	+/-53.4	+/-53.4	+/-53.4	+/-41.1	+/-49	+/-49	+/-49	+/-37.5	+/-45.7	+/-45.7	+/-45.7				
	53-1/8"	+70/-71.6	+/-65.8	+/-62.9	+/-56.2	+/-53.5	+/-53.5	+/-53.5	+/-50	+/-50	+/-50	+/-49	+/-49	+/-49	+/-49	+/-44.9	+/-48.6	+/-48.6	+/-48.6								
	58"	+/-69.9	+/-64	+/-61	+/-54.1	+/-51.1	+/-51.1	+/-51.1	+/-47.2	+/-47.2	+/-47.2	+/-45	+/-45.7	+/-45.7	+/-45.7												
	63"	+/-68.6	+/-62.6	+/-59.6	+/-52.4	+/-49.3	+/-49.3	+/-49.3	+/-45	+/-45	+/-45																
	76"	+/-66	+/-55.4	+/-49.3	+/-43.1	+/-39.4	+/-39.4	+/-39.4																			
84"	+/-64.9	+/-52.7	+/-45.8	+/-37.8																							

FIGURE FOR VERTICAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 5 & 6 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

FIGURE FOR HORIZONTAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 5 & 6 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

NOTES:

- 1) SEE SHEET 5 FOR ADDITIONAL SAMPLE CONFIGURATIONS
2) TIP-TO-TIP DIMENSIONS SHOWN. FOR NAIL FIN WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

FOR GLASS TYPES:

- 3) 3/16" Annealed
5) 1/4" Annealed
7) 9/16" IG: (1/8" An - 5/16" Air - 1/8" An)
8) 9/16" IG: (1/8" T - 5/16" Air - 1/8" T)

FOR FRAME TYPES:

FLANGE & INTEGRAL FIN

PREPARED BY A. LYNN MILLER
3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

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3400 PRECISION DRIVE
N. VENICE, FL 34275
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REGISTRATION #29296

ALUMINUM FIXED CASEMENT WINDOW (NI)

DESIGN PRESSURES PER
GLAZING TYPE

DATE: 04/08/26
BY: COLTON KEMP

NO. DWG

8 OF 11

PW640

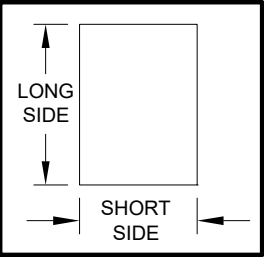
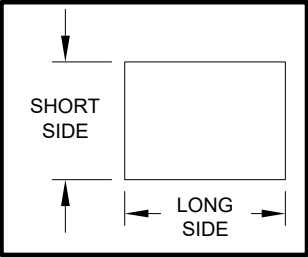
Rev.

Rev.#

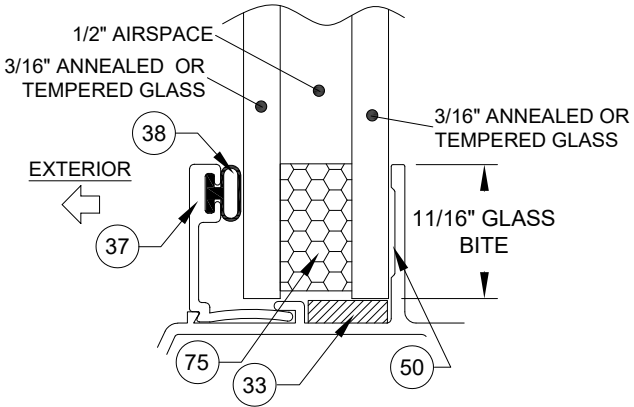
ANTHONY LYNN MILLER
LICENSE
No. 58705
04/08/26
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 9:

Design Pressure (psf) for Single Windows, All Anchor Groups											
Long Side	Short Side										
	under 23"	25-15/16"	36"	48"	53-1/8"	58"	60"	63"	65"	66-13/16"	
	under 23"	+90/-150									
	25-15/16"	+90/-150	+90/-150								
	35"	+90/-141.2	+90/-133.5								
	63"	+90/-116	+90/-105.8	+/- 84.8	+/- 73.4	+/- 70.9	+/- 69.6	+/- 69.4	+/- 69		
	66-13/16"	+90/-114.5	+90/-104.3	+/- 82.9	+/- 70.9	+/- 68.1	+/- 66.4	+/- 65.9	+/- 65.2	+/- 63.5	+/- 62
	68"	+90/-114.1	+90/-103.8	+/- 82.4	+/- 70.2	+/- 67.3	+/- 65.5	+/- 65	+/- 64.2	+/- 62.4	
	70"	+90/-113.4	+90/-103.2	+/- 79.9	+/- 69.1	+/- 66.1	+/- 64.2	+/- 63.6	+/- 62.4		
	74"	+90/-112.3	+90/-101.9	+/- 73.9	+/- 67.2	+/- 64	+/- 61.8	+/- 61.1			
	76"	+90/-111.7	+90/-101.3	+/- 72.1	+/- 66.4	+/- 63.1	+/- 60.8				
	84"	+90/-109.9	+90/-99.4	+/- 65.5	+/- 58.9	+/- 57.7					



1) SEE SHEETS 1, 5 & 6 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.
2) TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.



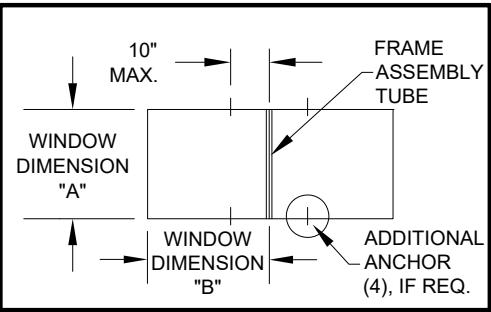
GLASS TYPES 9 & 10
7/8" NOM. GLASS STACK

TABLE 10:

		Design Pressure (psf) for Windows Attached to a Frame Assembly Tube																								
		Window Dimension "A"																								
		under 23"	25-15/16"	36"			48"				53-1/8"				58"				60"				63"			
		Anchor Group	Anchor Group	Anchor Group			Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group			
		All	All	A	B	C, D, & E	A	B	C	D & E	A	B	C	D & E	A	B	C	D & E	A	B	C	D & E	A	B	C	D & E
Window Dimension "B"	under 23"	+70/-90	+70/-90	+70/-90	+70/-81.4	+70/-90	+70/-76.2	+/-61.1	+70/-73.1	+70/-90	+/-68.8	+/-55.2	+/-66	+70/-90	+/-63.1	+/-50.5	+/-60.5	+70/-90	+/-61	+/-48.9	+/-58.5	+70/-88.5 ^A	+/-58.1	+/-46.5	+/-55.7	+70/-84.3 ^B
	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+/-67.5	+70/-90	+70/-90	+70/-90	+/-61	+70/-90	+70/-90	+70/-90	+/-55.9	+70/-89.6	+70/-90	+70/-90	+/-54	+70/-86.6	+70/-90	+70/-90	+/-51.5	+70/-82.5	+70/-90	+70/-89.7 ^A
	35"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+/-62.6	+70/-90	+70/-90	+70/-90	+/-56.5	+70/-90	+70/-90	+70/-90	+/-51.8	+70/-83	+70/-89.2	+70/-89.2	+/-50.1	+70/-80.2	+70/-87.9	+70/-87.9	+/-47.7	+70/-76.4	+70/-86.2	+70/-86.2
	63"	+70/-90	+70/-90	+70/-83.4	+70/-84.8	+70/-84.8	+/-62.6	+70/-73.4	+70/-73.4	+70/-73.4	+/-56.5	+70/-70.5	+70/-70.9	+70/-70.9	+/-51.8	+/-64.6	+/-66.2	+/-69.6	+/-50.1	+/-62.4	+/-64	+/-69.4	+/-47.7	+/-59.4	+/-61	+/-69
	66-13/16"	+70/-90	+70/-90	+70/-78.7	+70/-82.9	+70/-82.9	+/-59	+70/-70.9	+70/-70.9	+70/-70.9	+/-53.3	+/-66.4	+/-68.1	+/-68.1	+/-48.8	+/-60.9	+/-66.4	+/-66.4	+/-47.2	+/-58.8	+/-65.9	+/-65.9	+/-45	+/-56	+/-65.2	+/-65.2
	68"	+70/-90	+70/-90	+70/-82.4	+70/-82.4	+70/-82.4	+/-64.4	+70/-70.2	+70/-70.2	+70/-70.2	+/-58.2	+/-65.3	+/-67.3	+/-67.3	+/-53.3	+/-59.8	+/-65.5	+/-65.5	+/-51.5	+/-57.8	+/-65	+/-65	+/-49.1	+/-55.1	+/-64.2	+/-64.2
	70"	+70/-90	+70/-90	+70/-79.9	+70/-79.9	+70/-79.9	+/-62.6	+/-69.1	+/-69.1	+/-69.1	+/-56.5	+/-63.4	+/-66.1	+/-66.1	+/-51.8	+/-58.1	+/-64.2	+/-64.2	+/-50.1	+/-56.2	+/-63.6	+/-63.6	+/-47.7	+/-53.5	+/-62.4	+/-62.4
	74"	+70/-90	+70/-90	+70/-73.9	+70/-73.9	+70/-73.9	+/-59.2	+/-66.4	+/-67.2	+/-67.2	+/-53.5	+/-60	+/-64	+/-64	+/-49	+/-55	+/-61.8	+/-61.8	+/-47.4	+/-53.1	+/-61.1	+/-61.1				
	76"	+70/-90	+70/-90	+70/-72.1	+70/-72.1	+70/-72.1	+/-57.6	+/-64.7	+/-66.4	+/-66.4	+/-52.1	+/-58.4	+/-63.1	+/-63.1	+/-47.7	+/-53.5	+/-60.8	+/-60.8								
84"	+70/-90	+70/-90	+/-65.5	+/-65.5	+/-65.5	+/-57.4	+/-58.9	+/-58.9	+/-58.9	+/-51.8	+/-57.7	+/-57.7	+/-57.7													

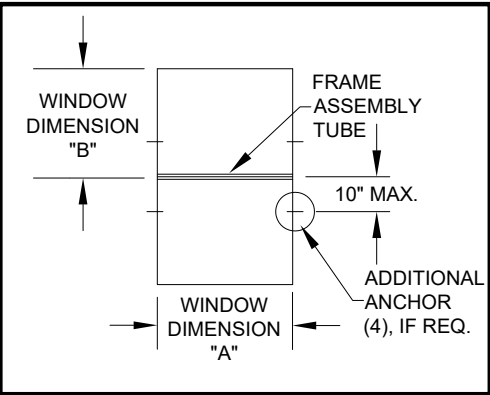
^A-90 FOR ANCHOR GROUP D
^B-88.7 FOR ANCHOR GROUP D

FIGURE FOR VERTICAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 5 & 6 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

FIGURE FOR HORIZONTAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 5 & 6 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

NOTES:
1) SEE SHEET 5 FOR ADDITIONAL SAMPLE CONFIGURATIONS
2) TIP-TO-TIP DIMENSIONS SHOWN. FOR NAIL FIN WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

PREPARED BY A. LYNN MILLER
3400 PRECISION DRIVE
N. VENICE, FL 34275
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REGISTRATION #29296

ALUMINUM FIXED CASEMENT WINDOW (NI)
DESIGN PRESSURES PER
GLAZING TYPE

ALUMINUM FIXED CASEMENT WINDOW (NI)
COLTON KEMPFF
PW640

04/08/26
Date

By
COLTON KEMPFF

No.
9 OF 11

Sheet
PW640

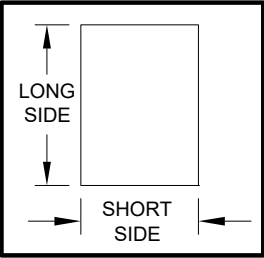
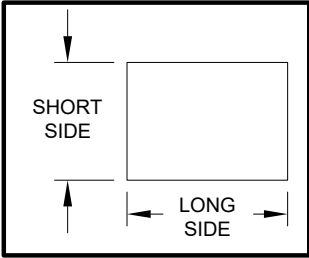
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LICENSE
No. 58705
04/08/26
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 11:

		Design Pressure (psf) for Single Windows, Anchor Groups A-D									
		Short Side									
		under 23"	25-15/16"	29"	31-1/2"	34"	40"	54"	60"	63"	67-1/2"
Long Side	under 23"	+90/-150									
	25-15/16"	+90/-150	+90/-150								
	63"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	
	67-1/2"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-147	+90/-142.9	+90/-141.7	+90/-134.5
	72"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-141.1	+90/-136.1	+90/-134.4	
	76"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-136.8	+90/-131.2		
	84"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-133.4	+90/-127.2			
	114"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-131.9	+90/-96.6				
	134"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-124.1					
	145"	+90/-150	+90/-150	+90/-150	+90/-149						



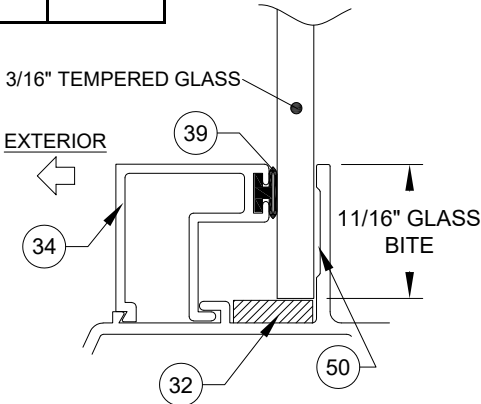
1) SEE SHEETS 1, 5 & 6 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.
2) TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.

FOR GLASS TYPES:

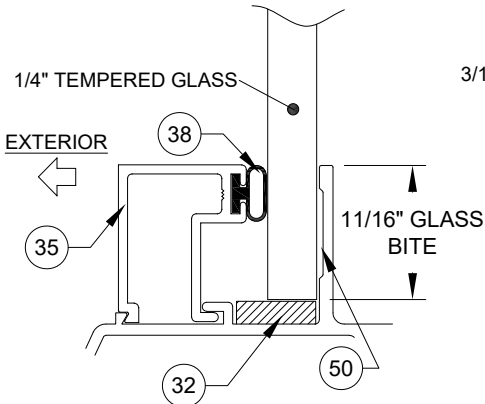
4) 3/16" T
6) 1/4" T
10) 7/8" IG: (3/16" T - 1/2" Air - 3/16" T)

FOR FRAME TYPES:

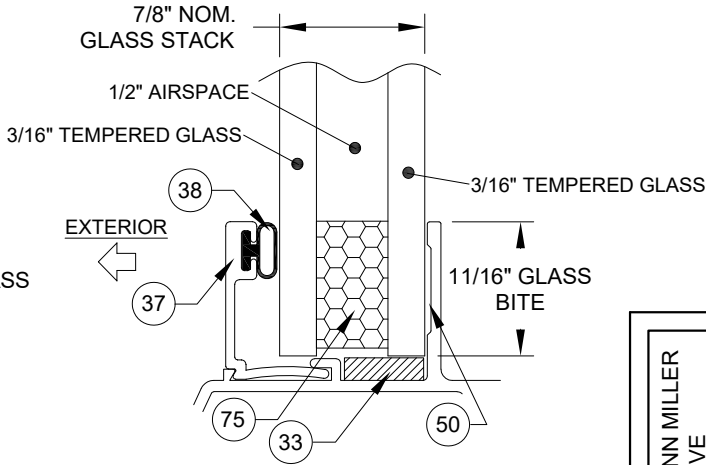
FLANGE ONLY



GLASS TYPE 4



GLASS TYPE 6

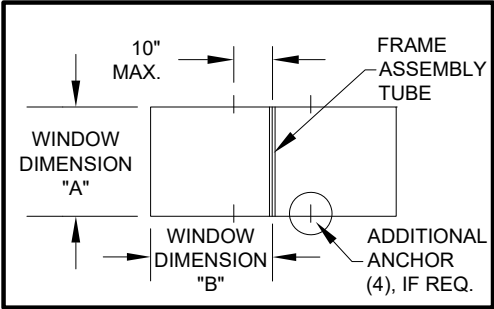


GLASS TYPE 10
7/8" NOM. GLASS STACK

TABLE 12:

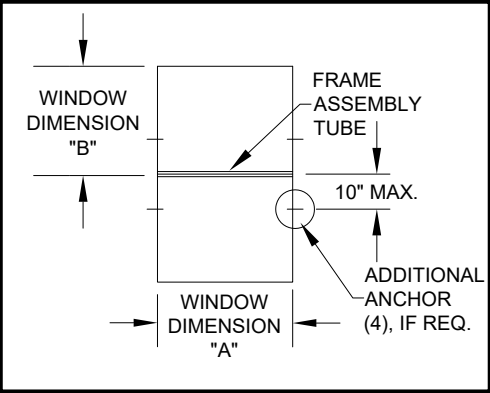
		Design Pressure (psf) for Windows Attached to a Frame Assembly Tube																							
		Window Dimension "A"																							
		under 23"	25-15/16"	29"	31-1/2"	34"			40"				54"				60"				63"				
		Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group			Anchor Group				Anchor Group				Anchor Group				Anchor Group				
		All	All	All	All	A	B	C & D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	
Window Dimension "B"	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-86.2	+70/-90	+70/-90	+70/-73.3	+70/-87.7	+70/-90	+/-67.7	+/-54.3	+/-65	+70/-90	+/-61	+/-48.9	+/-58.5	+70/-90	+/-58.1	+/-46.5	+/-55.7	+70/-88.7	
	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-75.1	+70/-90	+70/-90	+70/-90	+/-67.5	+70/-86.6	+70/-90	+70/-90	+/-64.3	+70/-82.5	+70/-90	+70/-90	
	63"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	
	67-1/2"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-89	+70/-90	+70/-90	+70/-90	
	72"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-88.1	+70/-90	+70/-90	+70/-90	
	76"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90					
	84"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90					
	114"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90													
	134"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90																	
145"	+70/-90	+70/-90	+70/-90	+70/-90																					

FIGURE FOR VERTICAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 5 & 6 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

FIGURE FOR HORIZONTAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 5 & 6 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

NOTES:
1) SEE SHEET 5 FOR ADDITIONAL SAMPLE CONFIGURATIONS
2) TIP-TO-TIP DIMENSIONS SHOWN.

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ALUMINUM FIXED CASEMENT WINDOW (NI)

DESIGN PRESSURES PER
GLAZING TYPE

DATE 04/08/26

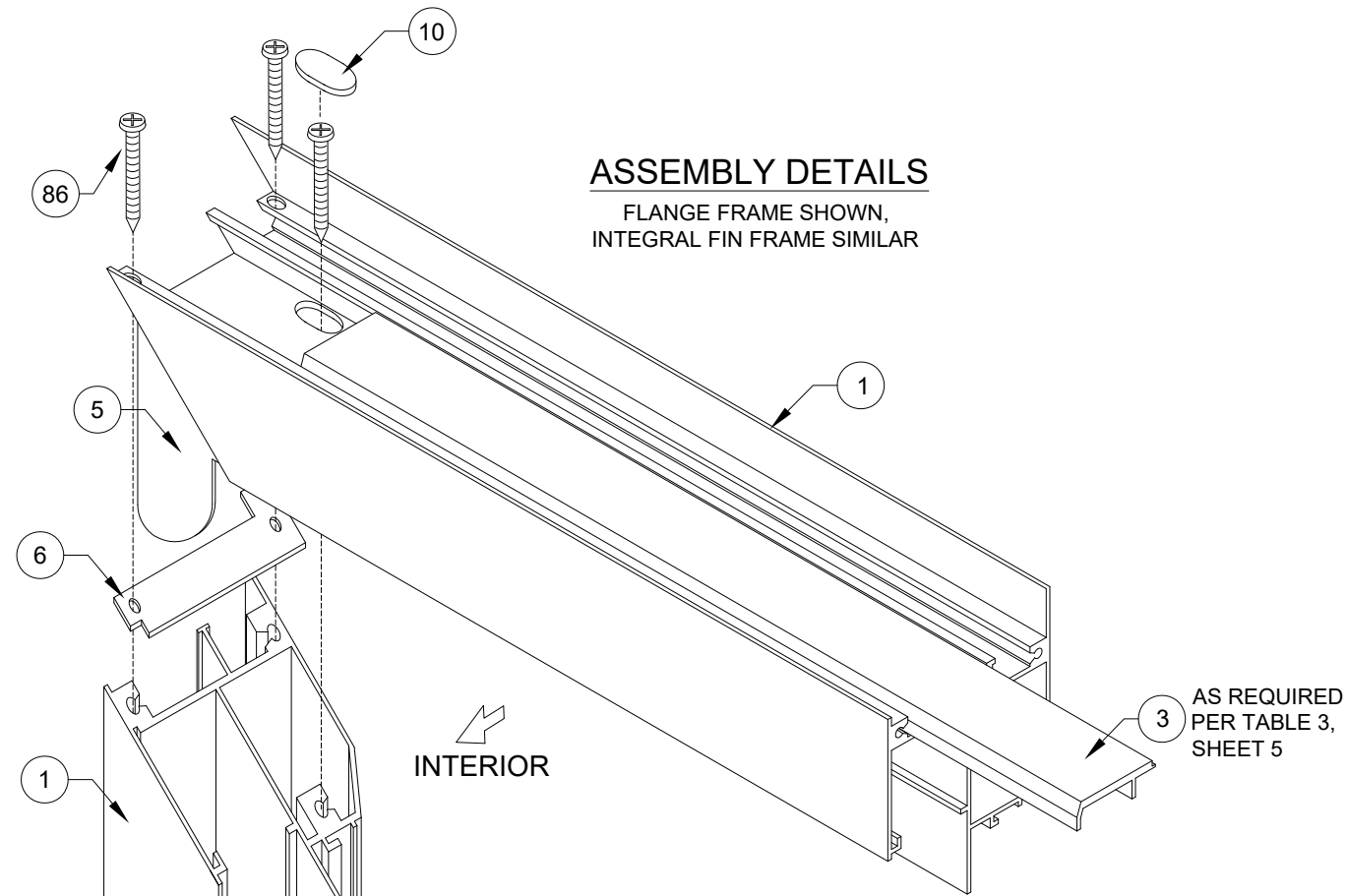
DRAWN BY COLTON KEMPFF

10 OF 11

PW640

PW640-FPA

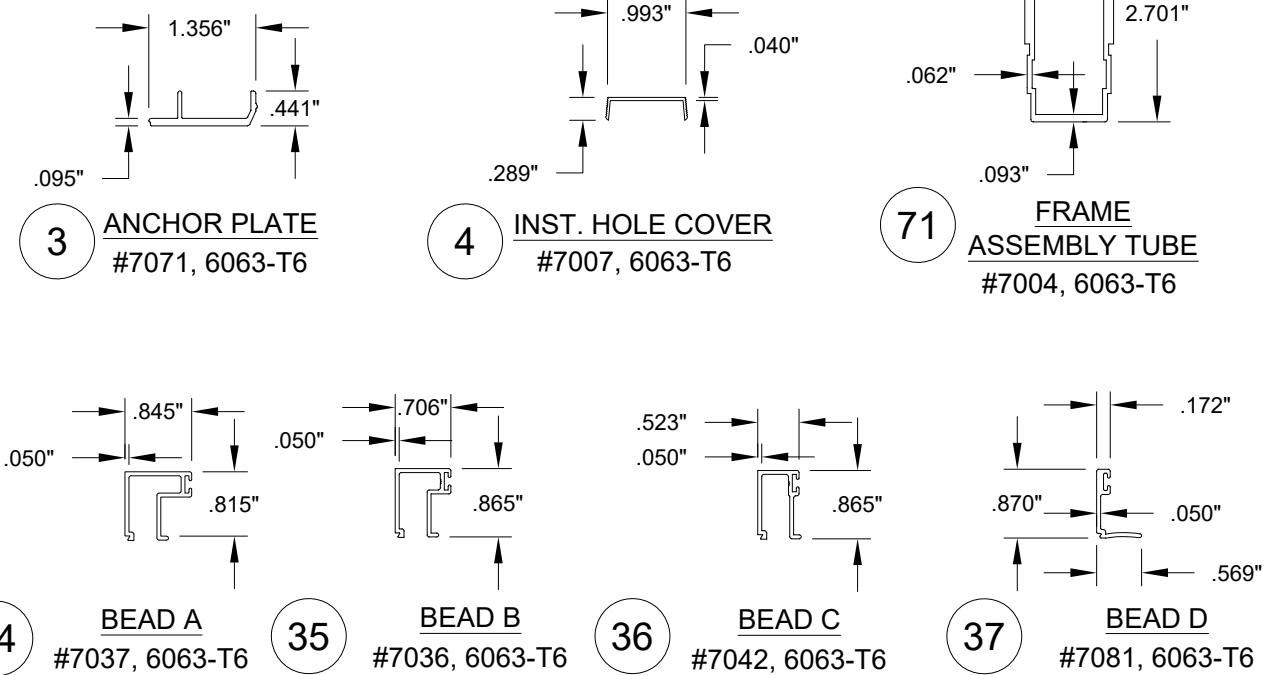
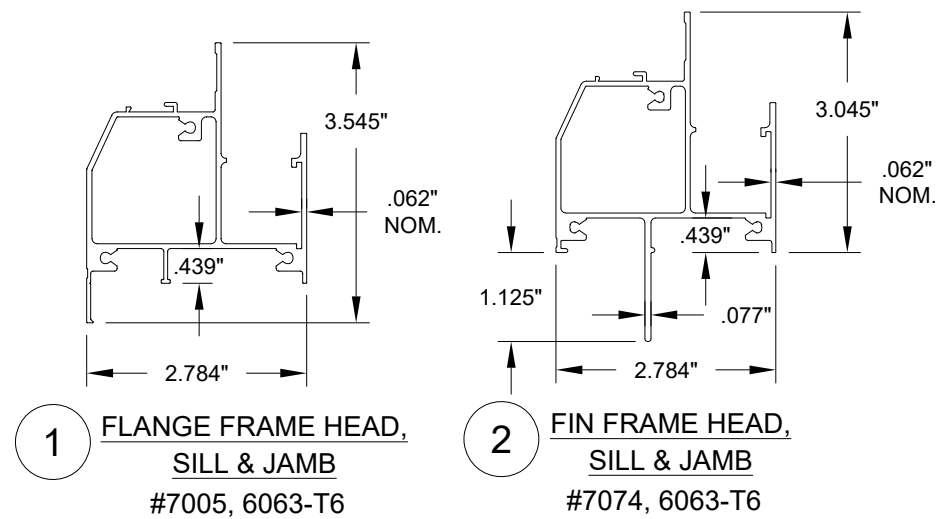
ANTHONY LYNN MILLER
LICENSE
No. 58705
04/08/26
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



ASSEMBLY DETAILS
FLANGE FRAME SHOWN,
INTEGRAL FIN FRAME SIMILAR

TABLE 13:

Item	Dwg. #	Description	Mat.
1	7005	Main Frame Head, Sill & Jambs, Flange	6063-T6 Alum.
2	7074	Main Frame Head, Sill & Jambs, Fin	6063-T6 Alum.
3	7071	Anchor Plate	6063-T6 Alum.
4	7007	Installation Hole Cover	6063-T6 Alum.
5	7010	Frame Corner Key	Steel
6	7078	Frame Gasket	Vinyl Foam
10	7055	Fixed Frame Hole Plug	PVC
32	1713	Setting Block 5/32" x 3/16" x 1-1/4"	EPDM
33	1714	Setting Block 5/32" x 1-7/16" x 1-1/4"	EPDM
34	7037	Bead A	6063-T6 Alum.
35	7036	Bead B	6063-T6 Alum.
36	7042	Bead C	6063-T6 Alum.
37	7081	Bead D	6063-T6 Alum.
38	1224	Vinyl Bulb Wstp (Thick)	Flex PVC 70
39	1225	Vinyl Bulb Wstp (Thin)	Flex PVC 70
50		Dow 791, 899 or 983 Silicone Backbedding	
71	7004	Casement Frame Assy Tube	6063-T6 Alum.
75		IG Spacer	Varies
86		#8 X 1-1/2" Quad Pn SMS Stainless Steel	Stainless Steel
90		#12 x 1" Ph. Pn. TEK	Stainless Steel



PREPARED BY A. LYNN MILLER
3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

PGT[®] WINDOWS and DOORS
3400 PRECISION DRIVE
N. VENICE, FL 34275
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ALUMINUM FIXED CASEMENT WINDOW (NI)

BOM & EXTRUSIONS

Series Desc. Title

04/08/26

By COLTON KEMPf

DWG No. 11 OF 11

Sheet PW640

PW640-FPA

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