

SERIES PW640, NON-IMPACT RESISTANT,
ALUMINUM 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) 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 AND SECURED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER, (EOR) OR ARCHITECT OF RECORD, (AOR).

4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE EMBEDMENT. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

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

6) 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.

7) 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.

VISIBLE LIGHT FORMULAS

WIDTH: BUCK WIDTH - 6
HEIGHT: BUCK HEIGHT - 6

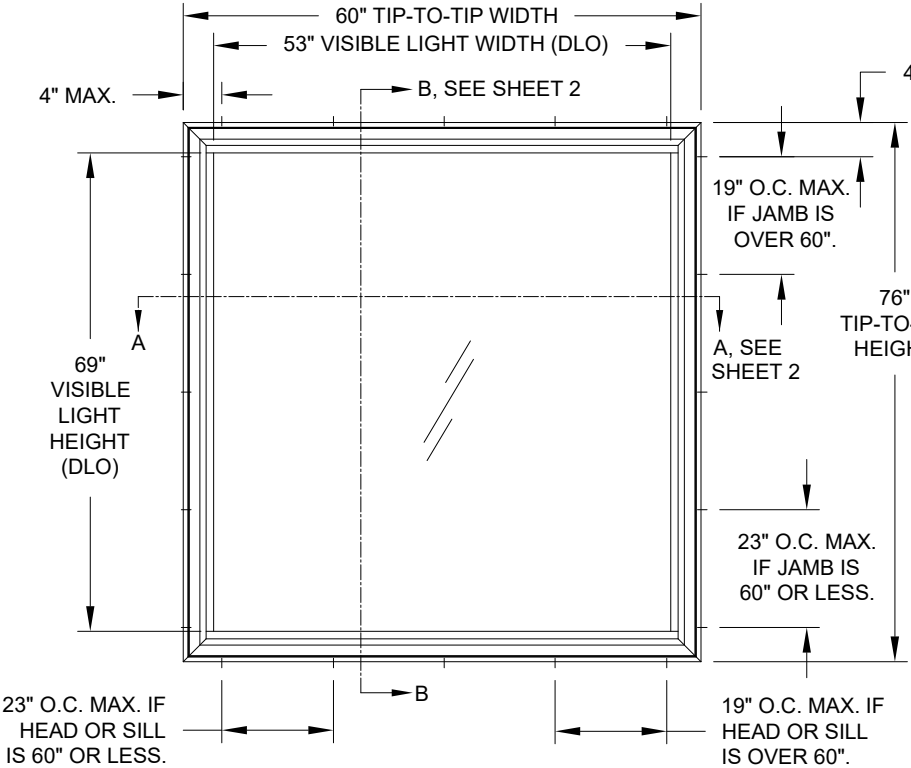
WHERE THE PRODUCT WILL BE INSTALLED WITHIN 3,000 FEET OF A SALTWATER COASTLINE, IT MUST COMPLY WITH SECTION 1711 OF THE FBC, BUILDING OR R332 OF THE FBC, RESIDENTIAL.

GENERAL NOTES.....	1
ELEVATION.....	1
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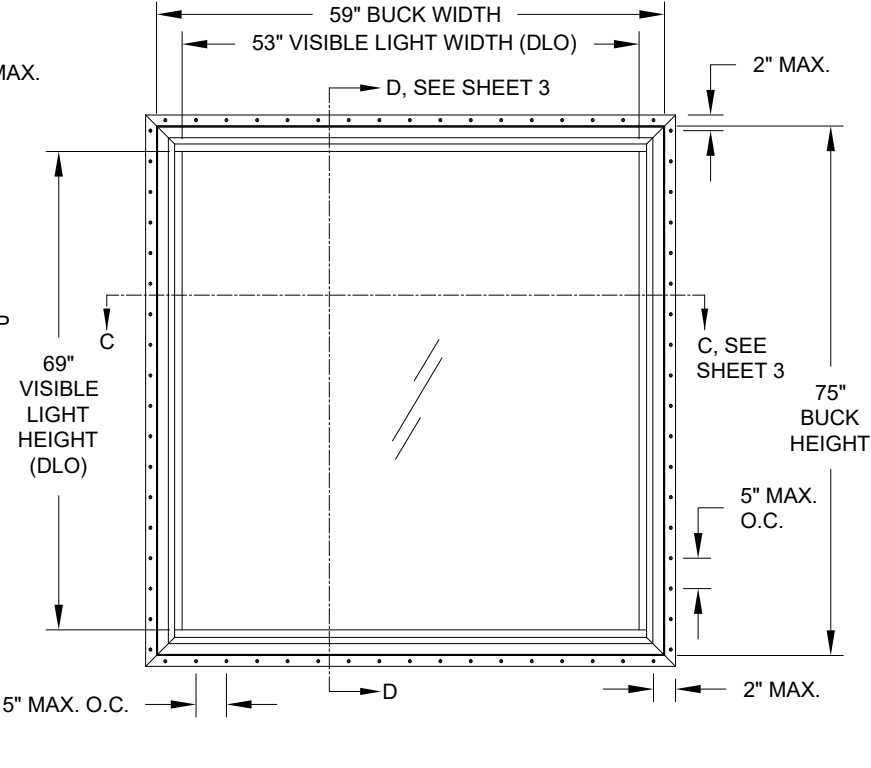
TABLE 1:

Glass Types	
1	1/8" Annealed
2	1/8" Tempered
3	3/16" Annealed
4	3/16" Tempered
5	1/4" Annealed
6	1/4" Tempered
7	9/16" IG: (1/8" AN - 5/16" Air - 1/8" AN)
8	9/16" IG: (1/8" TP - 5/16" Air - 1/8" TP)
9	7/8" IG: (3/16" AN - 1/2" Air - 3/16" AN)
10	7/8" IG: (3/16" TP - 1/2" Air - 3/16" TP)

"AN" = ANNEALED
"TP" = TEMPERED

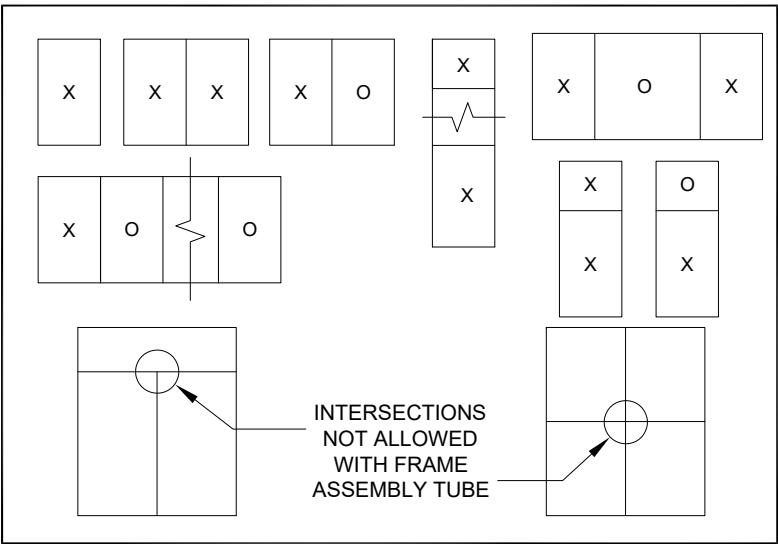


TYP. FLANGE FRAME ELEVATION



TYP. FIN FRAME ELEVATION

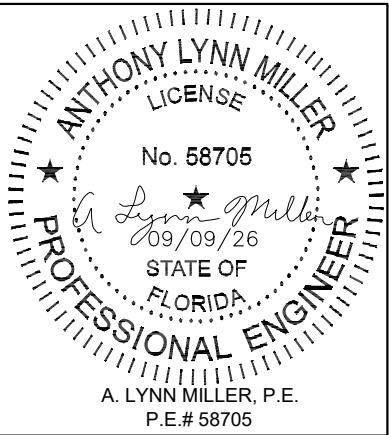
SAMPLE CONFIGURATIONS:



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

DESIGN PRESSURE RATING SEE TABLES 5-12
WATER TEST PRESSURE 15% OF (+) DP
IMPACT RATING NOT RATED FOR IMPACT RESISTANCE

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		COPYRIGHT © 2026 PGT INDUSTRIES, LLC LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	
REGISTRATION #29296					
ALUMINUM CASEMENT PICTURE WINDOW		Date		09/09/26	
GENERAL NOTES & ELEVATION		By		JENS ROSOWSKI	
PW640		Sheet		1 OF 12	
PW640		DWG No.		PW640-NI-HVHZ	



INSTALLATION
OPTION 1
INSTALLATION ANCHORS
INTO 2X WOOD.

EDGE DISTANCE

EDGE DISTANCE

EMBEDMENT

AS REQUIRED
PER TABLE 3,
SHEET 5

34-37

VISIBLE
LIGHT
HEIGHT
(DLO)

TIP-TO-TIP
WINDOW
HEIGHT

EXTERIOR

INSTALLATION
OPTION 2
INSTALLATION
ANCHORS DIRECTLY
INTO MASONRY.

TYP. ANCHOR
TYPE,
EMBEDMENT AND
EDGE DISTANCE
PER SUBSTRATE,
SEE TABLE 2A.

EDGE
DISTANCE

EMBEDMENT

EXTERIOR

CONCRETE/CMU
PER ANCHOR
REQUIREMENT

1/4" MAX
SHIM

5

4

38

39

VISIBLE LIGHT WIDTH (DLO)

TIP-TO-TIP WINDOW WIDTH

HORIZONTAL SECTION A-A

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

INSTALLATION
OPTION 4
INSTALLATION ANCHORS
DIRECTLY INTO METAL.

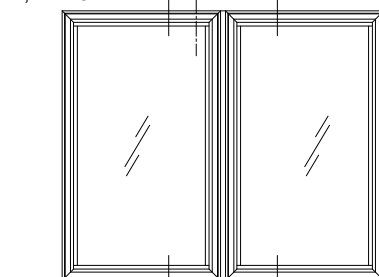
AS REQUIRED
PER TABLE 3,
SHEET 5

34-37

STEEL
SELF-DRILLING
SMS, SEE
TABLE 2A.

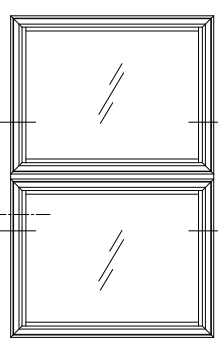
EDGE DISTANCE

SEE DETAIL
A1, BELOW

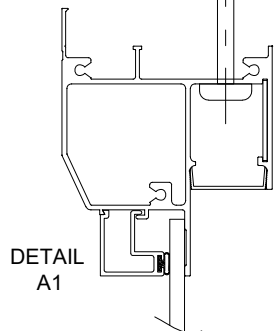


10" MAX.

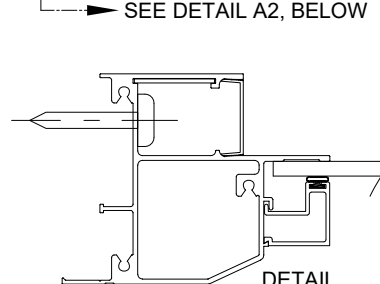
10" MAX.



SEE DETAIL A2, BELOW



DETAIL
A1



DETAIL
A2

INSTALLATION NOTES:

- 1) USE ONLY ANCHORS LISTED ON TABLE 3A. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) WOOD BUCKS DEPICTED ON THIS SHEET AS "1X", ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1-1/2". 1X WOOD BUCKS ARE OPTIONAL IF UNIT CAN BE INSTALLED DIRECTLY TO SOLID CONCRETE. WOOD BUCKS DEPICTED AS "2X" ARE 1-1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY AUTHORITY HAVING JURISDICTION.
- 3) IF APPLICABLE, LOWER DESIGN PRESSURE FROM EITHER WINDOW OR MULLION APPROVAL APPLIES TO WHOLE SYSTEM.

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

EDGE DISTANCE

VERTICAL SECTION B-B

CONCRETE
PER ANCHOR
REQUIREMENT

1X WOOD
BUCKSTRIP,
SEE NOTE 2,
THIS SHEET.

1/4" MAX SHIM

EMBEDMENT

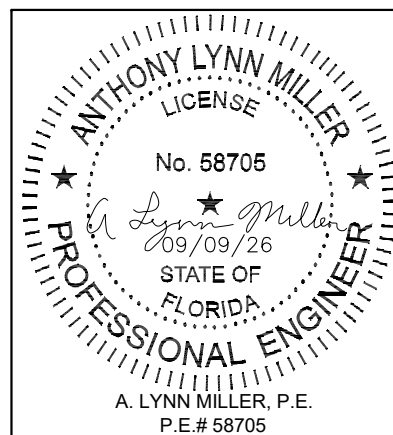
TYP. ANCHOR TYPE,
EMBEDMENT AND EDGE
DISTANCE PER SUBSTRATE,
SEE TABLE 2A.

TABLE 1B:

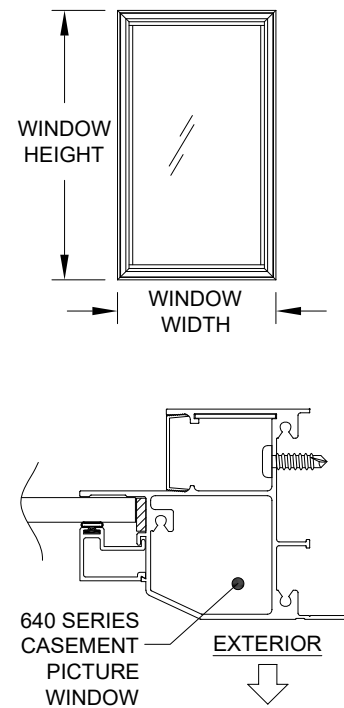
Additional Anchors Required on each Side of the Frame Assembly Tube (FAT)			
Vert. FAT	Window Width	Anchor Type	
		A	B, C & D
	17" - 25.9"	1	0
Horiz. FAT	Window Height	Anchor Type	
		A	B, C & D
	17" - 25.9"	1	0
Horiz. FAT	26"+	1	1

WHEN INSTALLING COMBINATION UNITS WITH FLANGE FRAME, 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 1B:

PREPARED BY A. LYNN MILLER 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		DATE 09/09/26	
DRAWN BY JENS ROSOWSKI		DWG No. PW640-NI-HVHZ	
PGT [®] WINDOWS and DOORS 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296		SHEET 2 OF 12	
ALUMINUM CASEMENT PICTURE WINDOW		FLANGE INSTALL. DETAILS	
PW640		PW640	



CASEMENT PICTURE WINDOW (O)

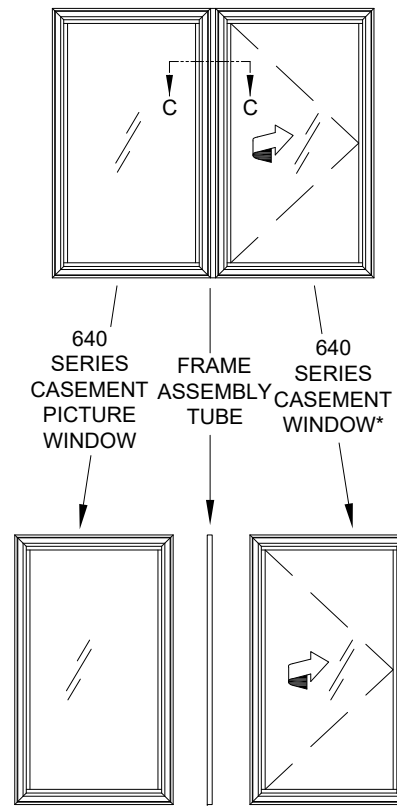


FOR SINGLE UNITS:

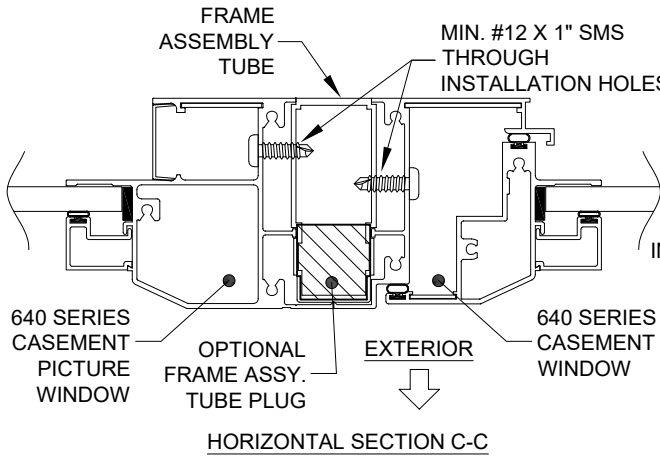
- 1) DETERMINE YOUR WINDOW SIZE, FRAME TYPE, AND GLASS.
- 2) KNOWING YOUR ANCHOR TYPE AND SUBSTRATE, DETERMINE YOUR ANCHOR GROUP FROM TABLES 3 AND 4.
- 3) FROM TABLES 5-12, FIND THE PRODUCT'S DESIGN PRESSURE FROM THE TABLE LABELED "DESIGN PRESSURE (PSF) FOR SINGLE WINDOWS."
- 4) DIMENSIONS SHOWN ARE 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), 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.

CASEMENT PICTURE WINDOW / CASEMENT (OX)

FIGURE 1:



*SEE PRODUCT'S FPA FOR INSTALLATION SPECS

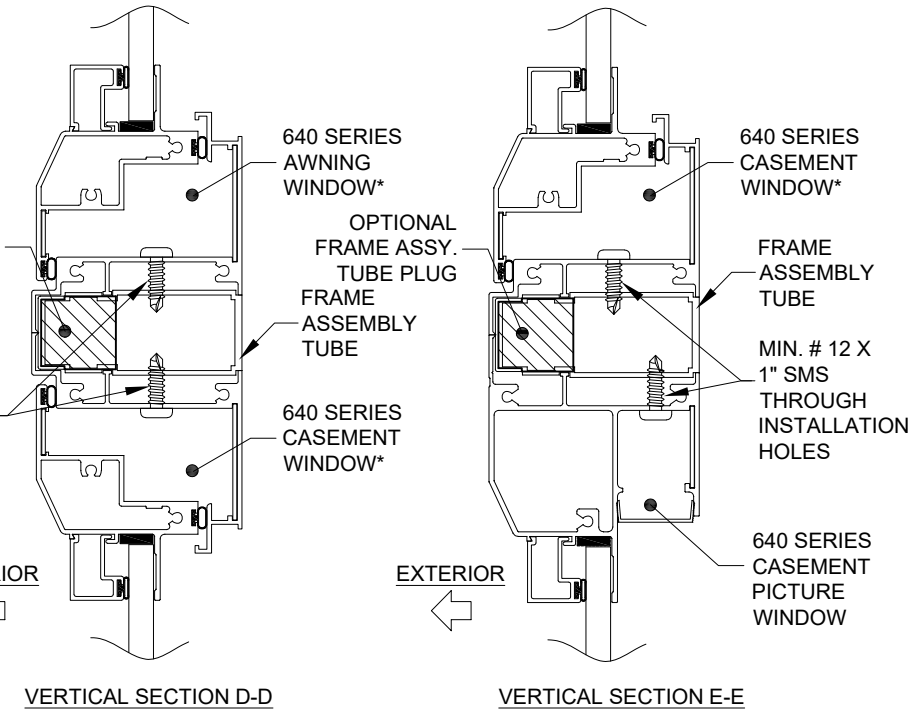
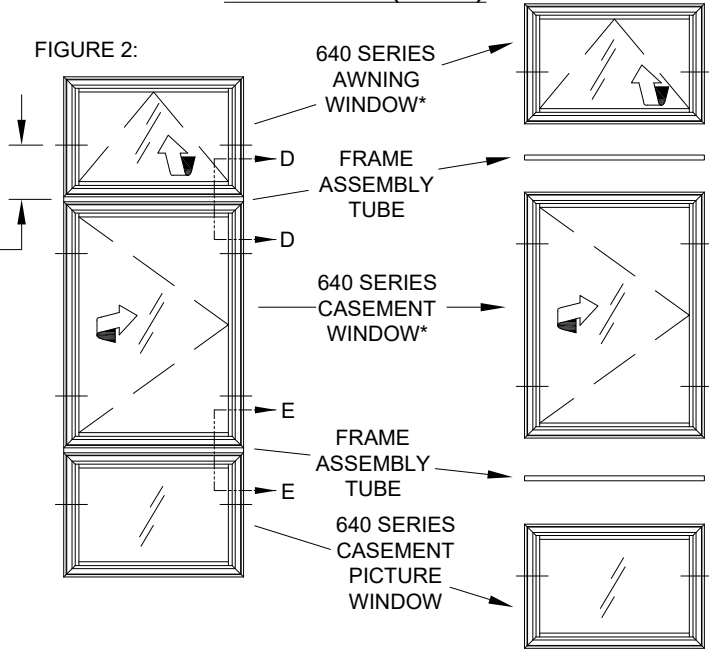


FOR EACH WINDOW IN A COMBINED ASSEMBLY:

- 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) 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.
- 3) FOR FLANGE FRAMES, USING THE TABLE LABELED "WINDOW ANCHORS REQUIRED" (TABLES 2A & 2B), DETERMINE THE NUMBER OF ANCHORS NEEDED IN THE HEAD, SILL AND JAMBS OF YOUR WINDOW.
- 4) 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).

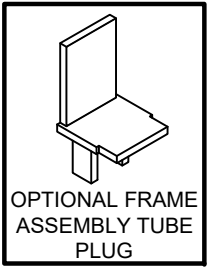
AWNING / CASEMENT / CASEMENT PICTURE WINDOW (XXO)

FIGURE 2:

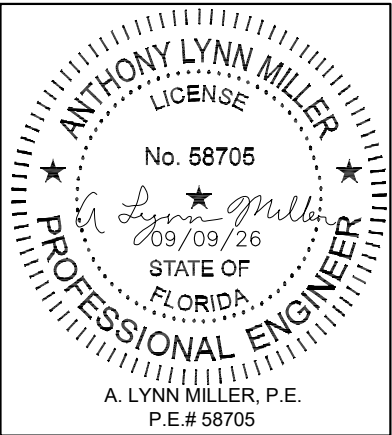


FRAME ASSEMBLY TUBE NOTES:

- 1) DIMENSIONS SHOWN ARE TIP-TO-TIP DIMENSIONS FOR EACH INDIVIDUAL WINDOW. FOR 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 FIXED CASEMENT) 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 1B. NO ADDITIONAL ANCHORS REQUIRED FOR FIN FRAME COMBINATION UNITS.



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PGT® and DOORS		3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296		ALUMINUM CASEMENT PICTURE WINDOW		DWG No.	
						FRAME ASSEMBLY TUBE		4 OF 12	
						DETAILS		PW640	
						Series			

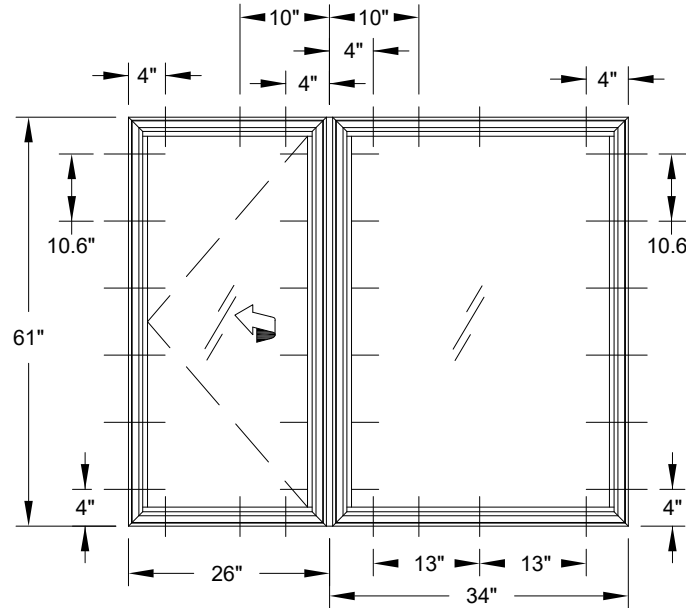


Group	Anchor	Substrate	Min. Edge Distance	Min. O.C. Distance	Min. Embedment	Anchor Plate Required?
A	#12 or #14 SMS Carbon Steel or 18-8, 316, 410 SS	Southern Pine (SG=0.55)	5/8"	1"	1-3/8"	No
		6063-T5 Alum.	3/8"	5/8"	.063"	No
		A36 Steel	3/8"	5/8"	.050"	No
		A653 Stud, Gr. 33	3/8"	5/8"	.045", 20 Ga.	No
	1/4" Steel Ultracon+	3k Concrete	1"	3"	1-3/4"	No
		Ungrouted CMU, (ASTM C-90)	1"	3"	1-1/4"	No
		Southern Pine (SG=0.55)	1"	1"	1-3/8"	No
B	1/4" Steel Ultracon	2.85k Concrete	2-1/2"	4"	1-3/8"	No
		Ungrouted CMU, (ASTM C-90)	1"	6"	1-1/4"	No
			2-1/2"	5"	1-1/4"	No
C	1/4" Steel Ultracon+	3k Concrete	1"	4"	1-3/8"	Yes
		Ungrouted CMU, (ASTM C-90)	1"	3"	1-1/4"	Yes
	1/4" 410 SS CreteFlex	3.35k Concrete	1"	5"	1-3/4"	No
		Ungrouted CMU, (ASTM C-90)	2-1/2"	5"	1-1/4"	No
	1/4" 304 SS Aggre-Gator	Ungrouted CMU, (ASTM C-90)	2"	3"	1-1/4"	Yes
D	#12 or #14 SMS Carbon Steel or 18-8, 316, 410 SS	Southern Pine (SG=0.55)	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
	1/4" 410 SS CreteFlex	3.35k Concrete	1"	6"	1-3/4"	Yes
		3.35k Concrete	2-1/2"	6"	1"	Yes
		Ungrouted CMU, (ASTM C-90)	2-1/2"	6"	1-1/4"	Yes
	5/16" Steel Ultracon	3.5k Concrete	1-1/4"	5"	1-3/4"	No
		Ungrouted CMU, (ASTM C-90)	3-1/8"	5"	1-1/4"	No
		Grouted CMU, (ASTM C-90)	2-1/2"	5"	1-3/4"	No
	1/4" Steel Ultracon+	3k Concrete	1-5/16"	4"	1-3/8"	Yes
		Ungrouted CMU, (ASTM C-90)	1-3/4"	3"	1-1/4"	Yes
		Southern Pine (SG=0.55)	1"	1"	1-3/8"	Yes
	1/4" 304 SS Aggre-Gator	2.22k Concrete	1-1/2"	3"	1-3/8"	Yes
Grouted CMU, (ASTM C-90)		2"	3"	2"	Yes	

- TABLE 2B: THROUGH-FIN ANCHORS

Group	Anchor	Substrate	Min. Edge Distance	Max. O.C. Spacing	Min. Embedment
E	2-1/2" x .113" Box Nail	Southern Pine (SG=.55)	5/16"	5"	2-7/16"
	2-1/2" x .131" Common Nail	Southern Pine (SG=.55)	3/8"	5"	2-7/16"
	2-1/2" x .145" Roofing Nail	Southern Pine (SG=.55)	3/8"	5"	2-7/16"
	#10 x 1" SMS Carbon Steel or 18-8, 316 or 410 SS	Southern Pine (SG=.55)	1/2"	5"	1-3/8"
		Aluminum, 6063-T5	5/16"	5"	.093"
		A36 Steel	5/16"	5"	0.0346" (20 Ga)
		A653 Stud, Gr. 33	5/16"	5"	0.0451" (18 Ga)

- EXAMPLE 1: FOR WINDOW COMBINATION SHOWN BELOW; FLANGE FRAME, 3/16" TEMPERED GLASS, 1/4" MASONRY ANCHORS INTO CONCRETE, +/- 65 PSF DP REQUIRED**



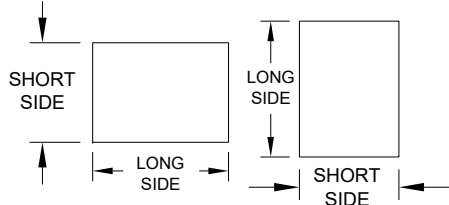
F) PER RULES ON SHEET 2 & 4, INSTALL 1 ADDITIONAL ANCHOR ON THE FRAME ASSEMBLY TUBE SIDE OF THE CASEMENT PICTURE (HEAD & SILL).

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TITLE	DESCRIPTION	DRAWN BY	DATE
ALUMINUM CASEMENT PICTURE WINDOW	ANCHOR TYPES & EXAMPLE	JENS ROSOWSKI	09/09/26
PW640	5 OF 12	DWG No.	PW640-NI-HVHZ
Series	Sheet		

TABLE 3:

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	3	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	4	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	4	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:



NOTES:
1) SEE SHEET 1 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
2) SEE SHEET 5 FOR EXAMPLES.
3) 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.

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PGT [®] WINDOWS and DOORS 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296		ALUMINUM CASEMENT PICTURE WINDOW		
				ANCHOR TYPE & QUANTITY	6 OF 12	PW640

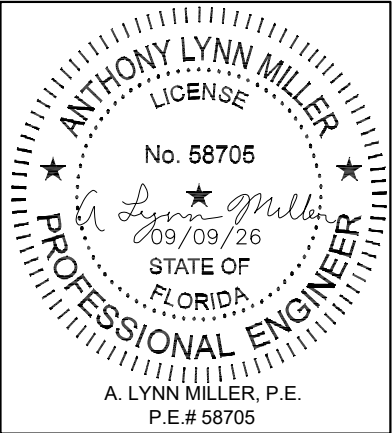


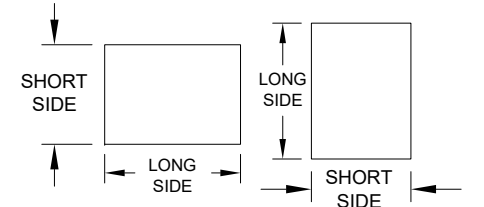
TABLE 4:

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																	13	8	7	4																																												
		Short Side	6	4	3	3	7	5	4	3	9	6	5	3	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																	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																	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	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																																																				
		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																																																					
	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																																																					
	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.

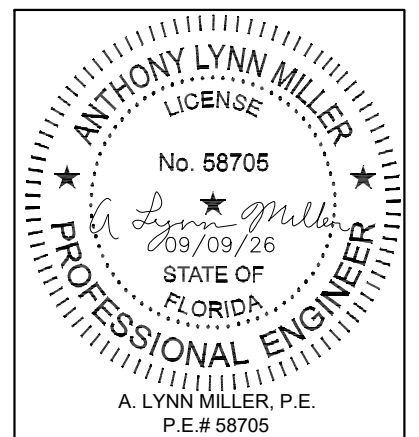
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG SIDE DIMENSION SHOWN ON THE TABLE.

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



NOTES:

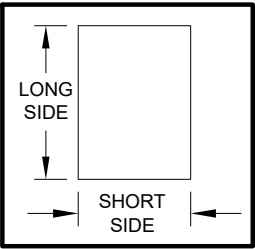
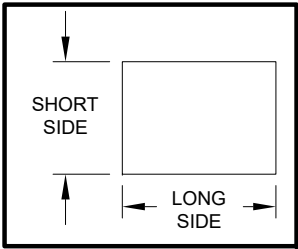
- 1) SEE SHEET 1 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
- 2) SEE SHEET 5 FOR EXAMPLES.
- 3) TIP-TO-TIP DIMENSIONS SHOWN. FOR NAIL FIN WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.



 PGT[®] WINDOWS and DOORS		PREPARED BY A. LYNN MILLER 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600	
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REGISTRATION #29296			
ALUMINUM CASEMENT PICTURE WINDOW		Date	09/09/26
ANCHOR TYPE & QUANTITY		By	JENS ROSOWSKI
PW640	7 OF 12	Sheet	PW640-NI-HVHZ

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				

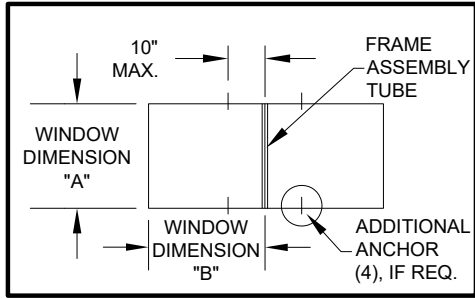


1) SEE SHEETS 1, 5 & 6 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.
2) TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.

TABLE 6:

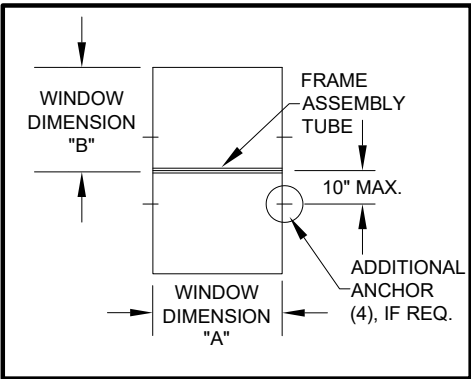
		Design Pressure (psf) for Windows Attached to a Frame Assembly Tube									
		Window Dimension "A"									
		under 23"	25-15/16"	27-3/4"	33-1/2"	37"	44"	48-1/4"	53-1/8"	58"	63"
Window Dimension "B"	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group
	All	All	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



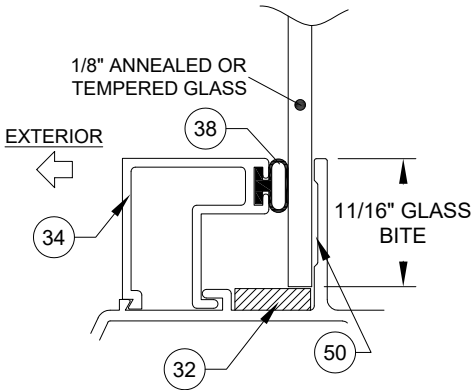
SEE SHEETS 1, 5 & 6 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

FOR GLASS TYPES:

- 1) 1/8" Annealed
- 2) 1/8" Tempered

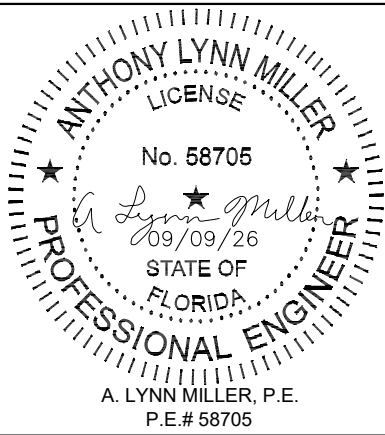
FOR FRAME TYPES:

FLANGE &
INTEGRAL FIN



GLASS TYPES 1 & 2

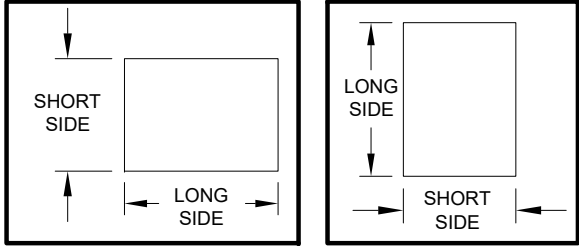
NOTES:
1) SEE SHEET 1 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
2) SEE SHEET 5 FOR EXAMPLES.
3) TIP-TO-TIP DIMENSIONS SHOWN. FOR NAIL FIN WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.



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PGT [®] WINDOWS and DOORS 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296		ALUMINUM CASEMENT PICTURE WINDOW	
DESIGN PRESSURES PER		JENS ROSOWSKI		By	
GLAZING TYPE		PW640		No.	
PW640		8 OF 12		DWG	
PW640		PW640-NI-HVHZ		Sheet	

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						

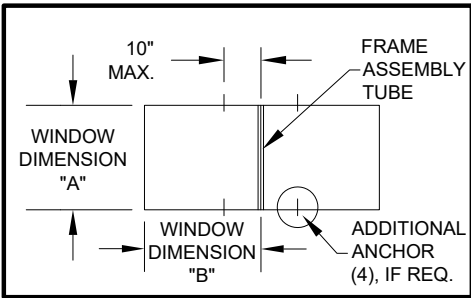


- 1) SEE SHEETS 1, 5 & 6 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.
2) TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.

TABLE 8:

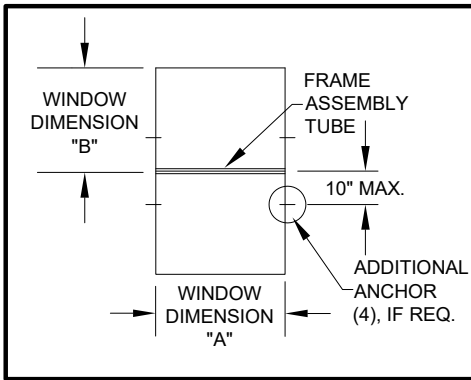
		Design Pressure (psf) for Windows Attached to a Frame Assembly Tube																									
		Window Dimension "A"																									
		under 23"	25-15/16"	27-3/4"	33-1/2"	37"			44"			48-1/4"				53-1/8"				58"				63"			
		Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group			Anchor Group			Anchor Group				Anchor Group				Anchor Group				Anchor Group			
Window Dimension "B"	under 23"	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
	25-15/16"	+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
	37"	+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
	44"	+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
	48-1/4"	+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	+/-53.4	+/-53.4	+/-53.4	+/-41.1	+/-49	+/-49	+/-49	+/-37.9	+/-45	+/-45	+/-45
	53-1/8"	+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				
	58"	+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								
	63"	+/-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												
	76"	+/-68.6	+/-62.6	+/-59.6	+/-52.4	+/-49.3	+/-49.3	+/-49.3	+/-45	+/-45	+/-45																
	84"	+/-66	+/-55.4	+/-49.3	+/-43.1	+/-39.4	+/-39.4	+/-39.4																			

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.

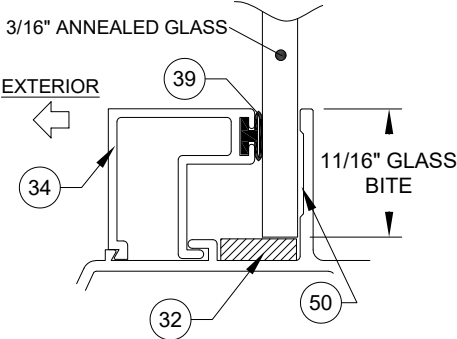
- NOTES:
1) SEE SHEET 1 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
2) SEE SHEET 5 FOR EXAMPLES.
3) TIP-TO-TIP DIMENSIONS SHOWN. FOR NAIL FIN WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

FOR GLASS TYPES:

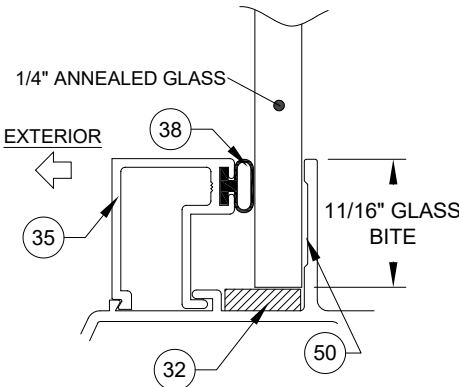
- 3) 3/16" Annealed
5) 1/4" Annealed
7) 9/16" IG: (1/8" An - 5/16" Air - 1/8" An)
8) 9/16" IG: (1/8" T - 5/16" Air - 1/8" T)

FOR FRAME TYPES:

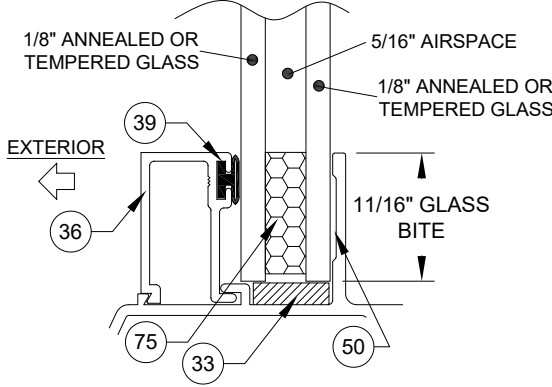
FLANGE & INTEGRAL FIN



GLASS TYPE 3



GLASS TYPE 5



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

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ALUMINUM CASEMENT PICTURE WINDOW

DESIGN PRESSURES PER
GLAZING TYPE

PW640

9 OF 12

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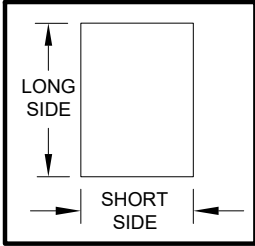
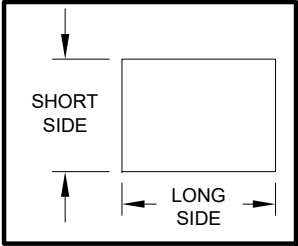
JENS ROSOWSKI

PW640-NI-HVHZ

ANTHONY LYNN MILLER
LICENSE
No. 58705
09/09/26
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 9:

		Design Pressure (psf) for Single Windows, All Anchor Groups									
		Short Side									
		under 23"	25-15/16"	36"	48"	53-1/8"	58"	60"	63"	65"	66-13/16"
Long Side	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.

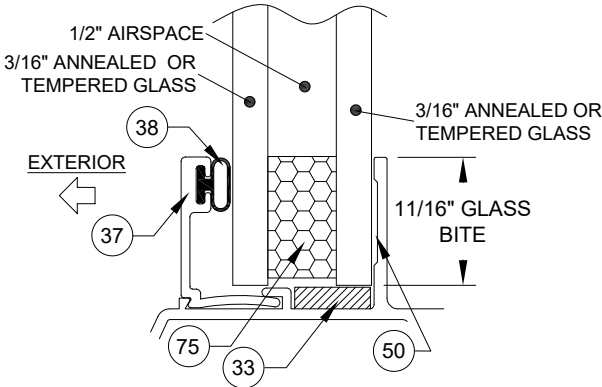
FOR GLASS TYPES:

9) 7/8" IG: (3/16" An - 1/2" Air - 3/16" An)
10) 7/8" IG: (3/16" T - 1/2" Air - 3/16" T)*

FOR FRAME TYPES:

FLANGE & INTEGRAL FIN*

*FOR GLASS TYPE 10 WITH FLANGE FRAME, REFER TO TABLES ON SHEET 10.



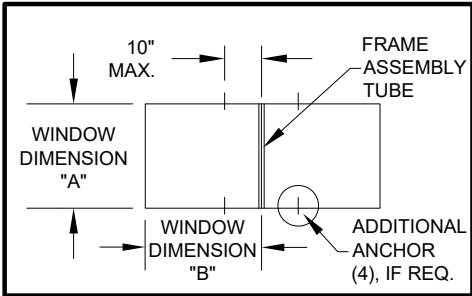
GLASS TYPES 9 & 10
7/8" NOM. GLASS STACK

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														

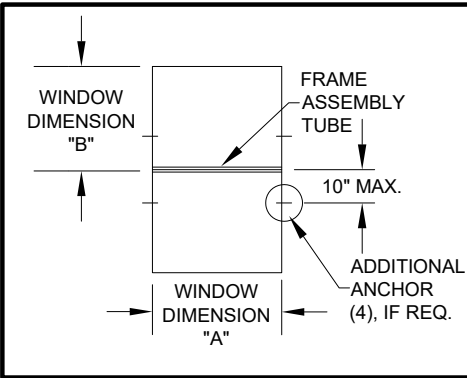
^A-90.0 FOR ANCHOR GROUP D
^B-88.7 FOR ANCHOR GROUP D

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 1 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
 - 2) SEE SHEET 5 FOR EXAMPLES.
 - 3) 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.

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ALUMINUM CASEMENT PICTURE WINDOW

DESIGN PRESSURES PER
GLAZING TYPE

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PW640

DATE 09/09/26
BY JENS ROSOWSKI

PW640-NI-HVHZ

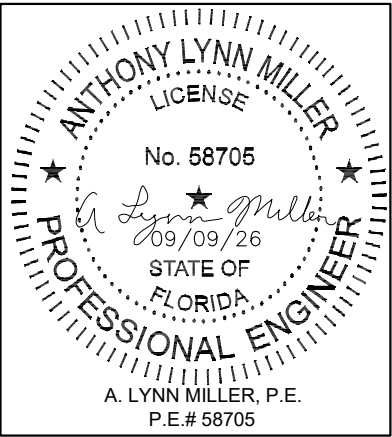
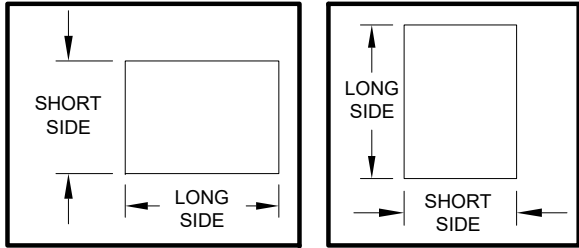


TABLE 11:

	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	
	67-1/2"	+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/-141.1	+90/-136.1	+90/-134.4	
	76"	+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					

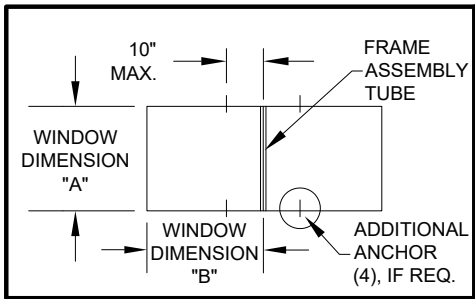


1) SEE SHEETS 1, 5 & 6 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.
2) TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.

TABLE 12:

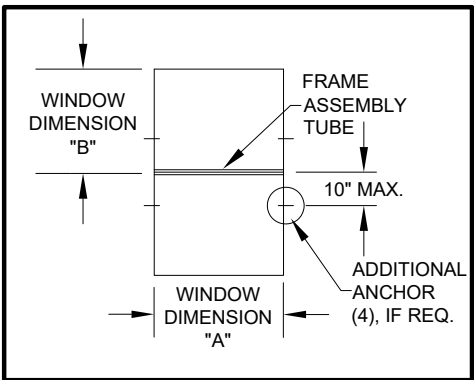
	Design Pressure (psf) for Windows Attached to a Frame Assembly Tube																							
	Window Dimension "A"																							
	under 23"	25-15/16"	29"	31-1/2"	34"				40"				54"				60"				63"			
	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group				Anchor Group				Anchor Group				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								
	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																	
	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.

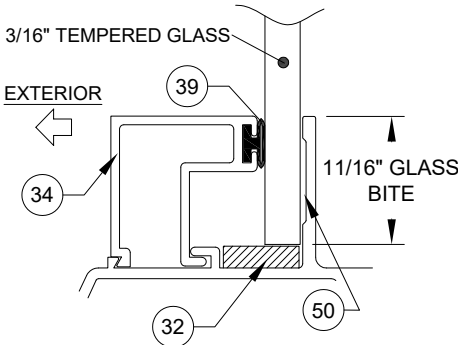
NOTES:
1) SEE SHEET 1 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
2) SEE SHEET 5 FOR EXAMPLES.
3) TIP-TO-TIP DIMENSIONS SHOWN. FOR NAIL FIN WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

FOR GLASS TYPES:

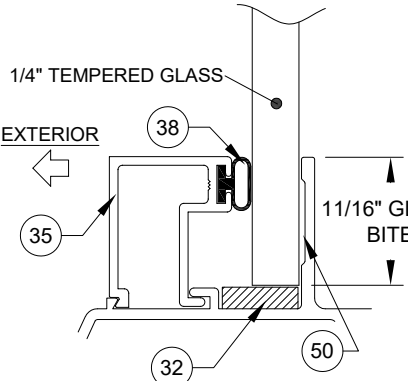
4) 3/16" T
6) 1/4" T
10) 7/8" IG: (3/16" T - 1/2" Air - 3/16" T)

FOR FRAME TYPES:

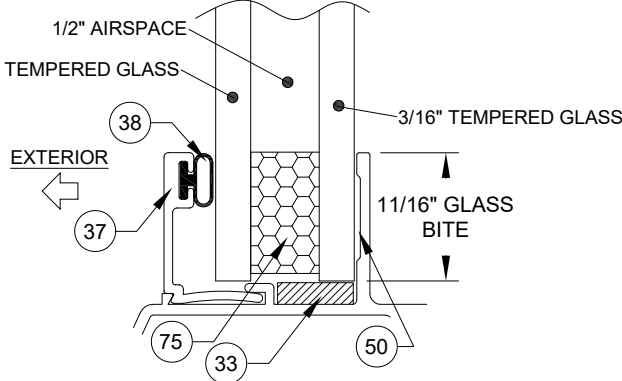
FLANGE ONLY



GLASS TYPE 4



GLASS TYPE 6



GLASS TYPE 10
7/8" NOM. GLASS STACK

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DESIGN PRESSURES PER
GLAZING TYPE

11 OF 12

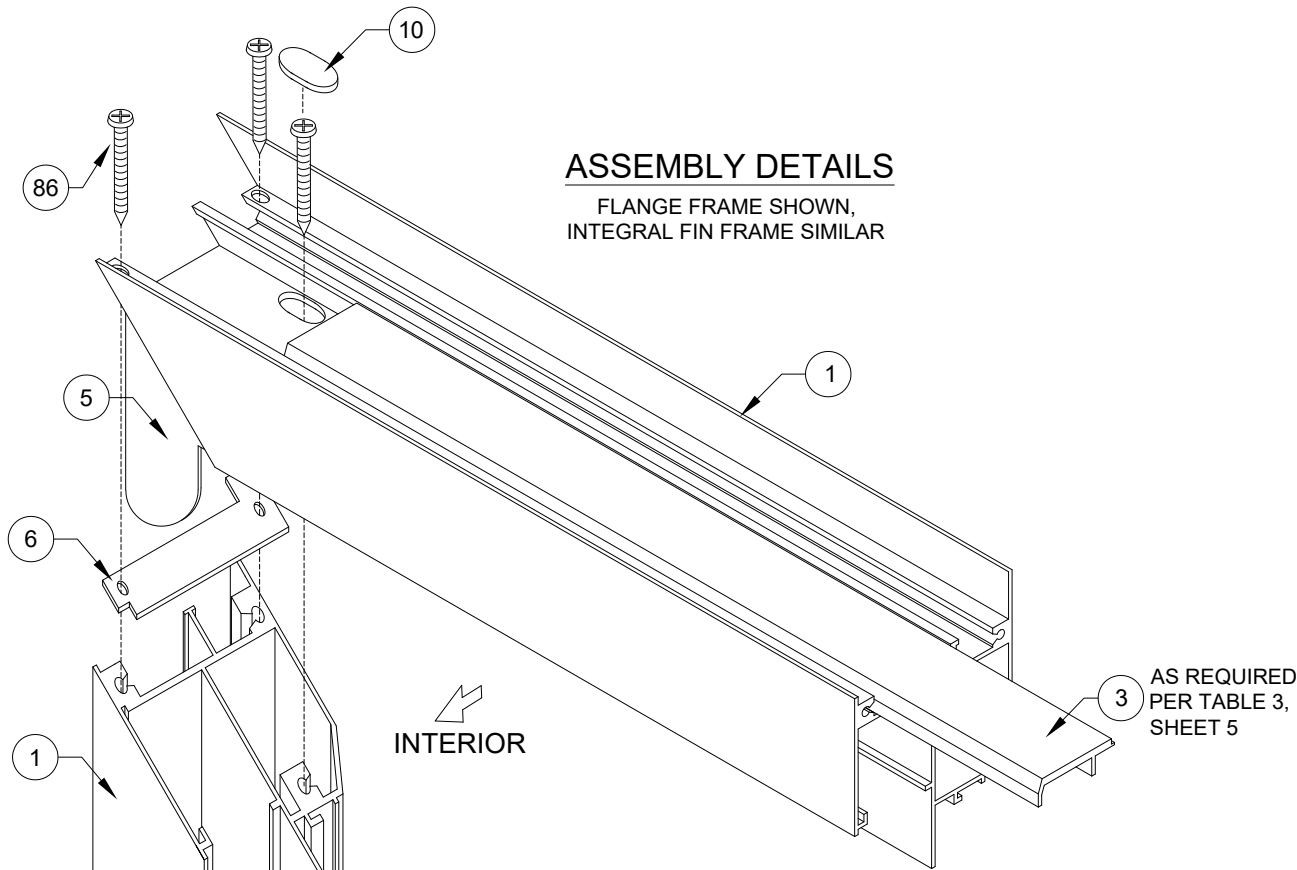
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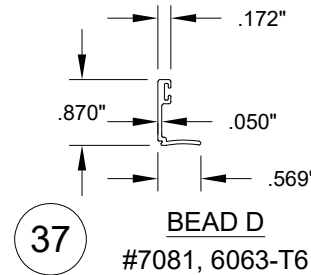
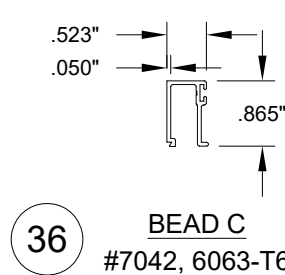
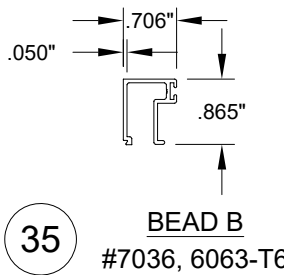
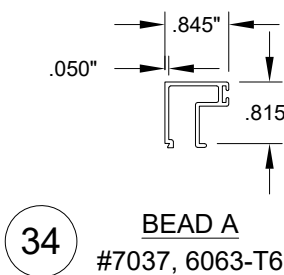
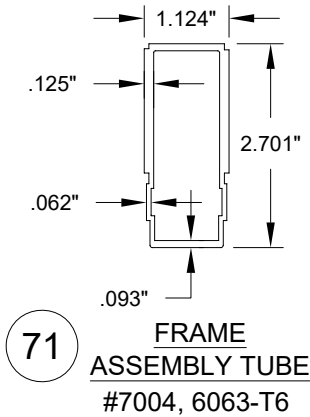
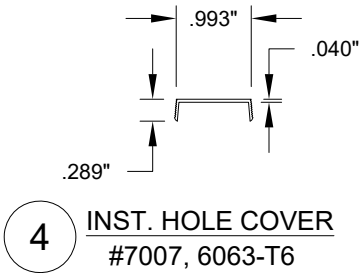
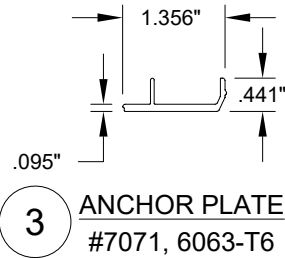
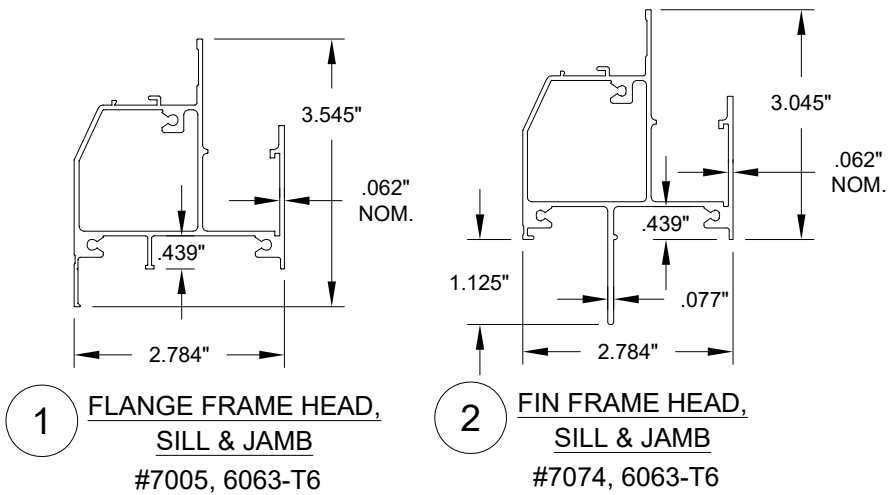
ASSEMBLY DETAILS

FLANGE FRAME SHOWN,
INTEGRAL FIN FRAME SIMILAR

INTERIOR

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



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BOM & EXTRUSIONS		JENS ROSOWSKI		PW640-NI-HVHZ	
PW640		12 OF 12		DWG No.	

