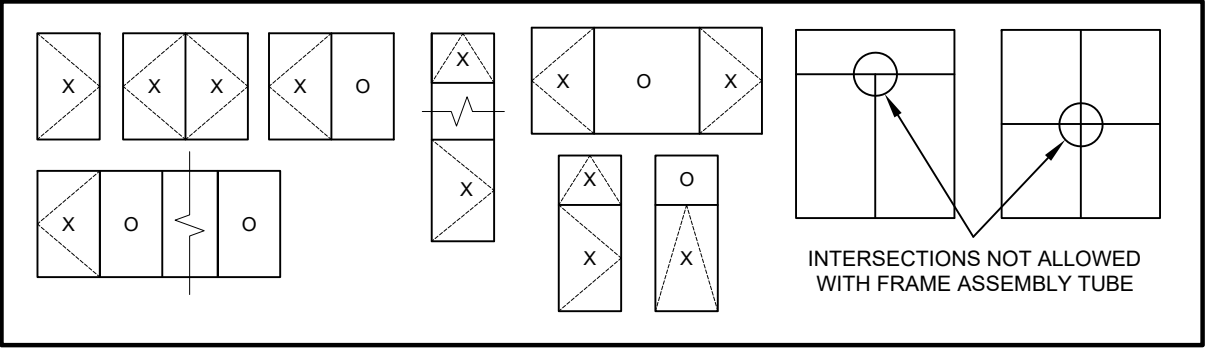


SERIES AW640
NON-IMPACT RESISTANT, ALUMINUM AWNING WINDOW

- 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.

SAMPLE CONFIGURATIONS:



GENERAL NOTES.....	1
ELEVATION.....	1
INSTALLATION.....	2-3
ASSEMBLY TUBE DETAILS.....	4
ANCHOR QUANTITIES.....	5
ANCHOR SPECIFICATIONS.....	6
DESIGN PRESSURES/GLZ DETAILS.....	7-13
ASSEMBLY DETAILS/BOM.....	14
EXTRUSIONS.....	14

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.

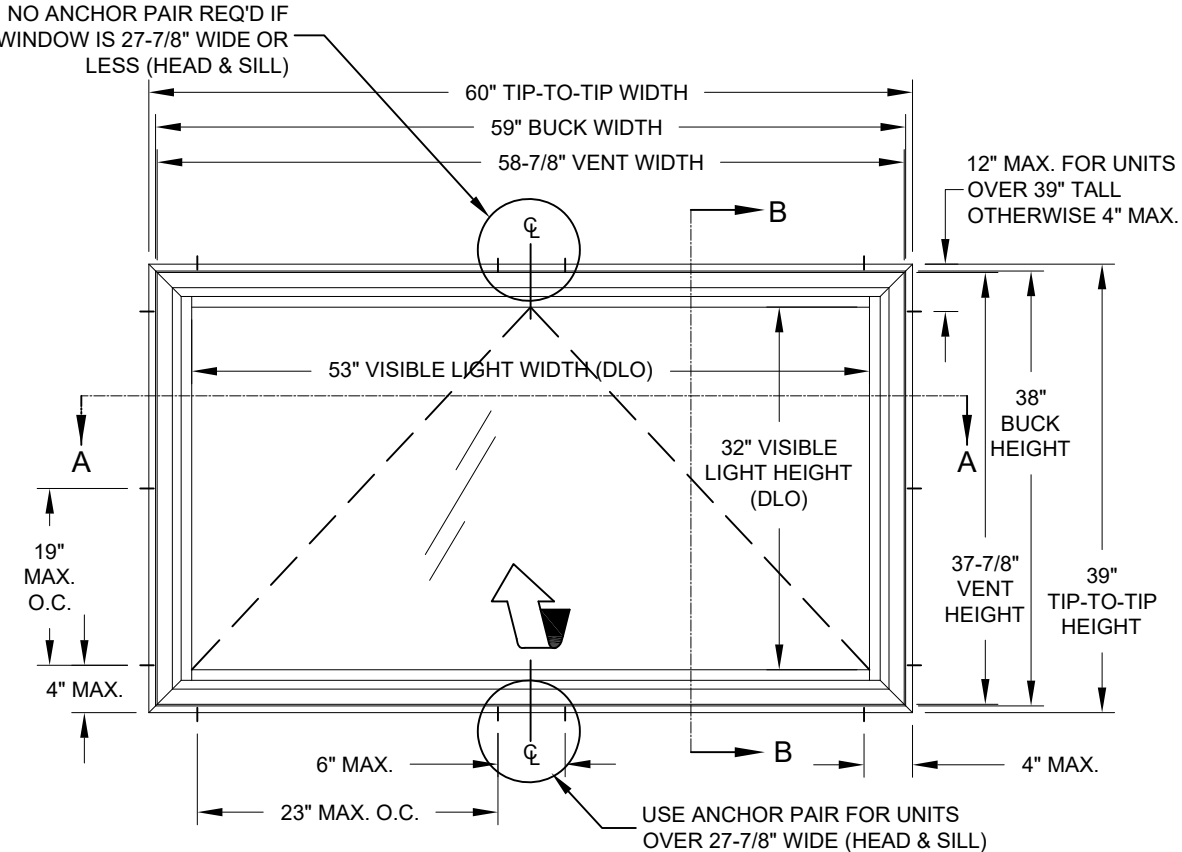
VISIBLE LIGHT FORMULAS

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

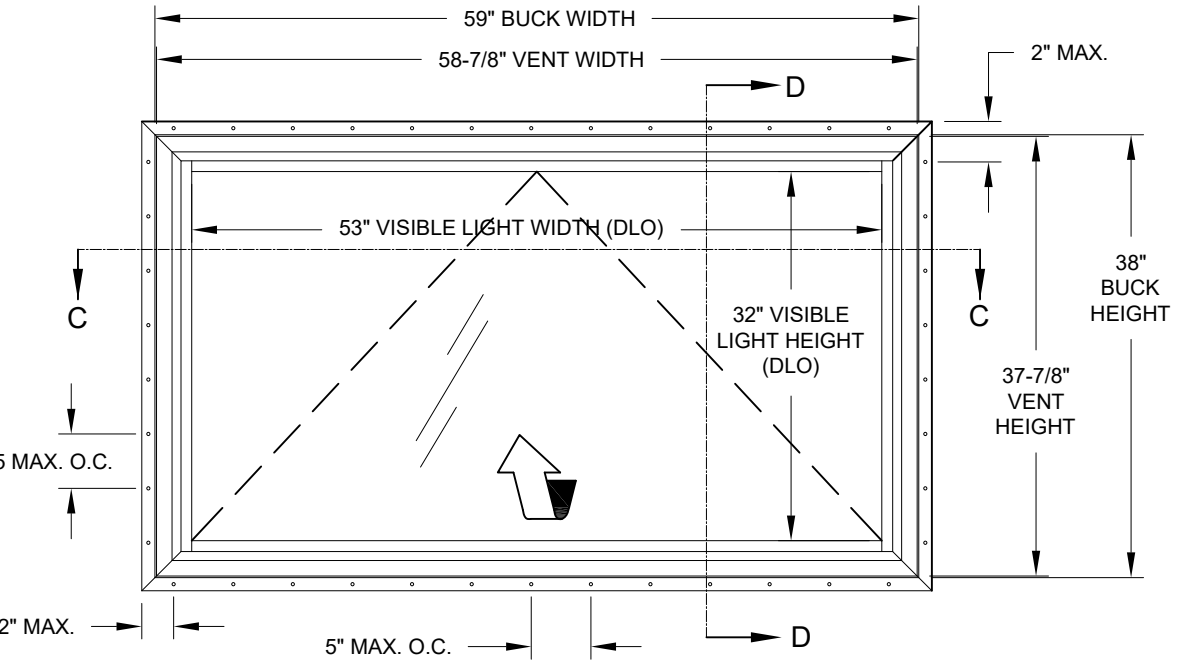
TABLE 1:

	Glass Types	Sheet #
1	1/8" Annealed	7
2	1/8" Tempered	8, 13
3	3/16" Annealed	9
4	3/16" Tempered	8, 13
5	1/4" Annealed	9
6	1/4" Tempered	8, 13
7	9/16" IG: (1/8" AN - 5/16" Air - 1/8" AN)	10
8	9/16" IG: (1/8" TP - 5/16" Air - 1/8" TP)	11, 13
9	7/8" IG: (3/16" AN - 1/2" Air - 3/16" AN)	12
10	7/8" IG: (3/16" TP - 1/2" Air - 3/16" TP)	11, 13

FLORIDA PRODUCT APPROVAL #2329



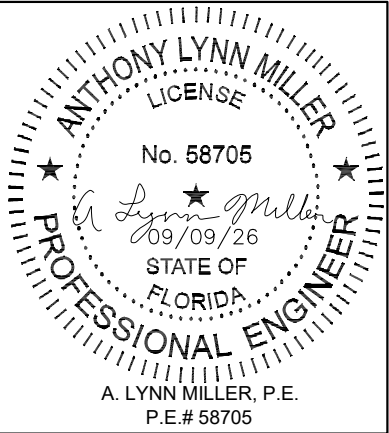
TYP. ELEVATION OF FLANGE FRAME AWNING WINDOW



TYP. ELEVATION OF FIN FRAME AWNING WINDOW

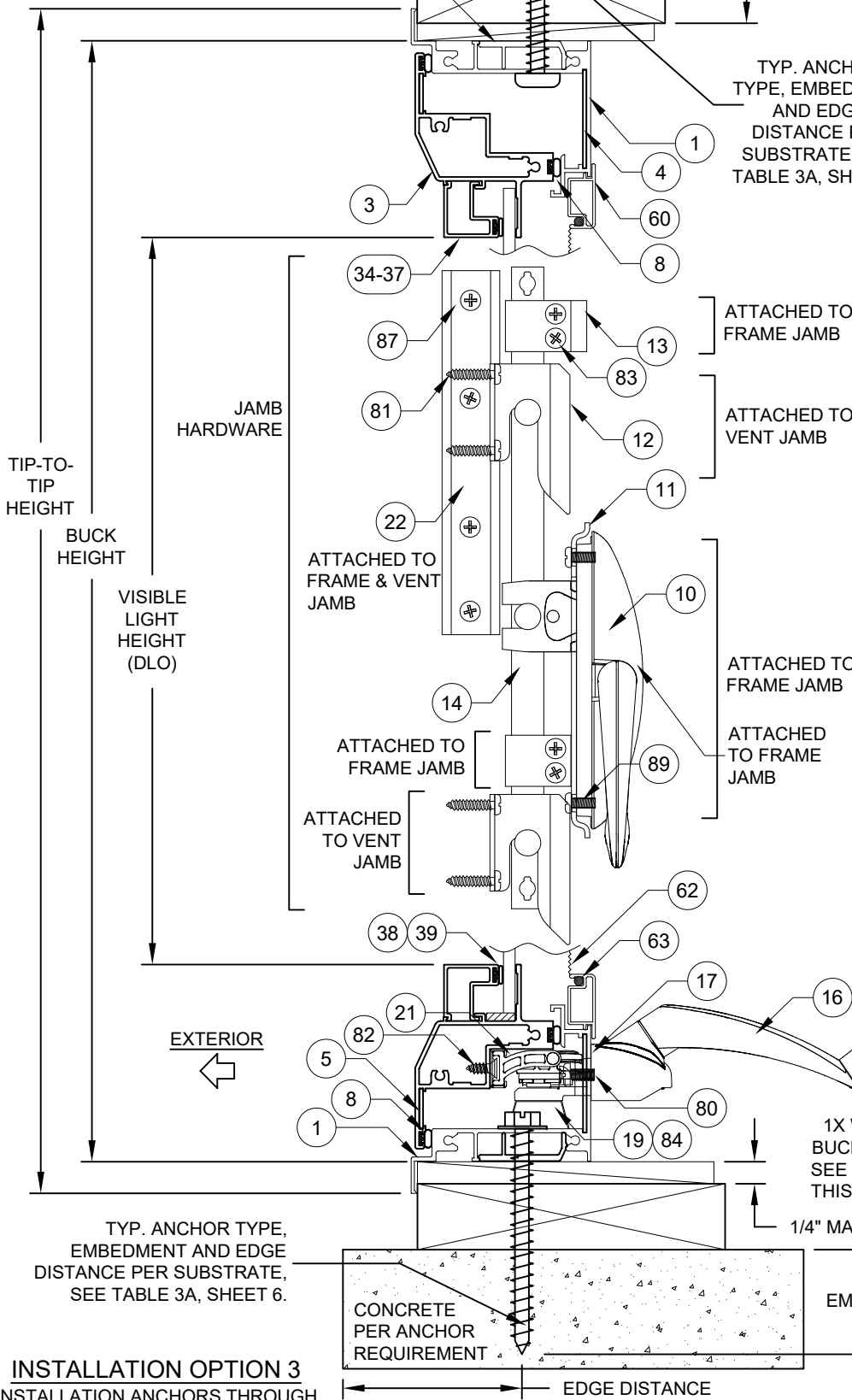
DESIGN PRESSURE RATING
SEE SHEETS 7-13
WATER TEST PRESSURE
15% OF (+) DP
IMPACT RATING
NOT RATED FOR IMPACT RESISTANCE

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PGT® WINDOWS and DOORS 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	ALUM. AWNING WINDOW	GENERAL NOTES & ELEVATIONS	1 OF 14
AW640	Series	Desc.	Title	Sheet



**INSTALLATION
OPTION 1**
INSTALLATION ANCHORS
INTO 2X WOOD.

AS REQUIRED PER
TABLE 3A, SHEET 6

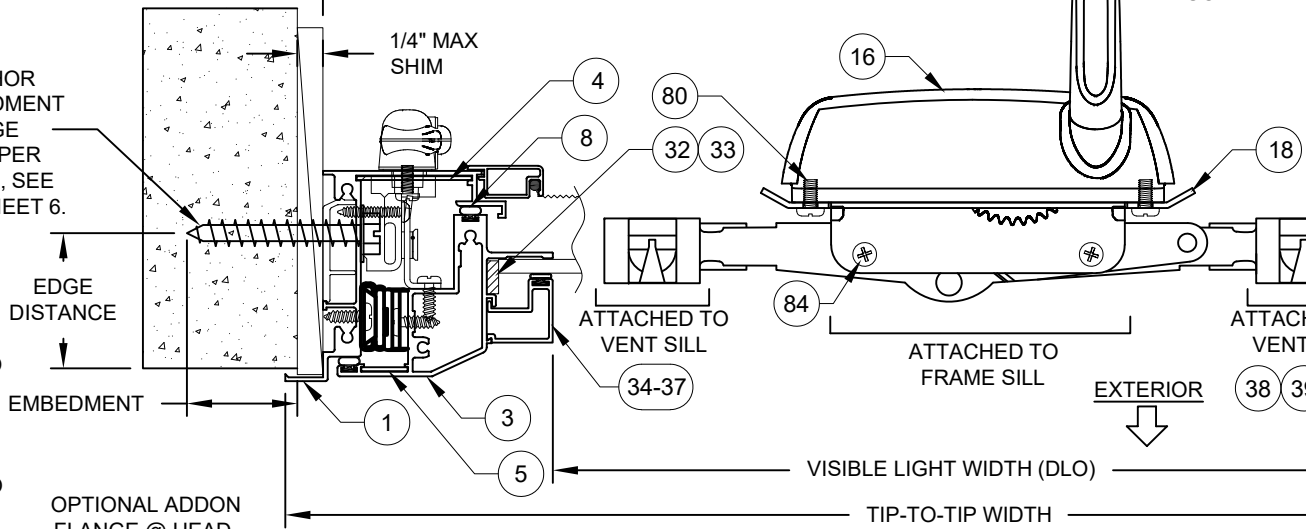


INSTALLATION OPTION 3
INSTALLATION ANCHORS THROUGH
1X BUCKSTRIP INTO MASONRY.

VERTICAL SECTION B-B

**INSTALLATION
OPTION 2**
INSTALLATION ANCHORS
DIRECTLY INTO MASONRY.

CONCRETE/CMU
PER ANCHOR
REQUIREMENT

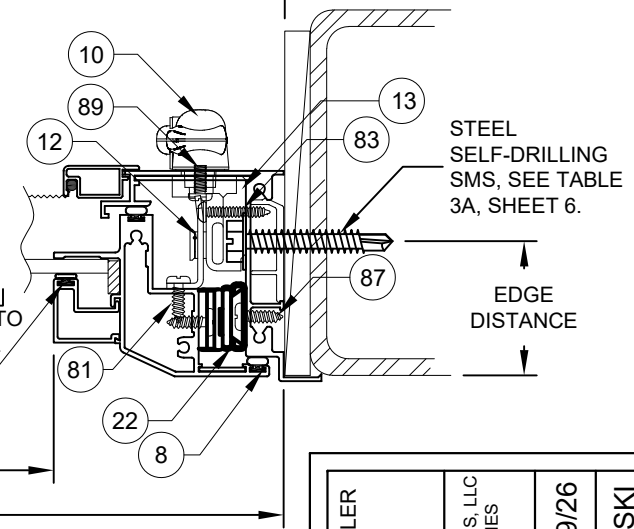


HORIZONTAL SECTION A-A

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

**INSTALLATION
OPTION 4**
INSTALLATION ANCHORS
DIRECTLY INTO METAL.

FPA APPROVED, CLIPPED
MULLION, ALUMINUM OR
STEEL FRAMING OR
STEEL STUD.



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.

**FRAME
ASSEMBLY
TUBE (FAT)
DETAILS:**

SEE DETAIL
A1, BELOW

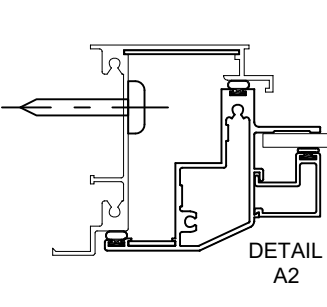
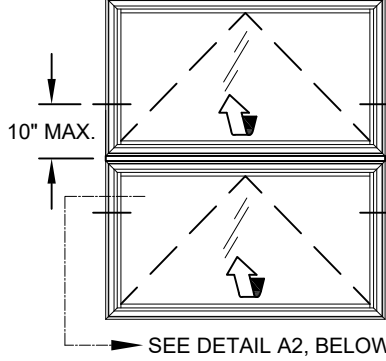
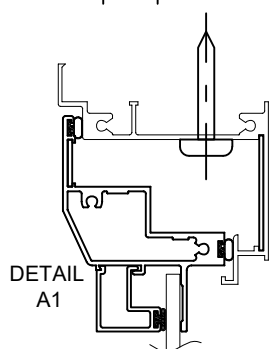
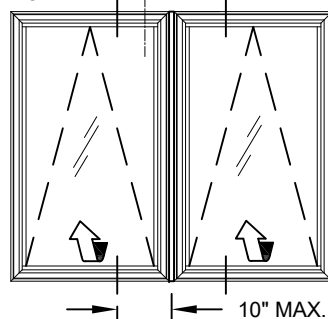


TABLE 1B:

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, 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.

PGT[®] WINDOWS and DOORS
3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296

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

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ALUM. AWNING WINDOW

FLANGE INSTALLATION DETAILS

AW640

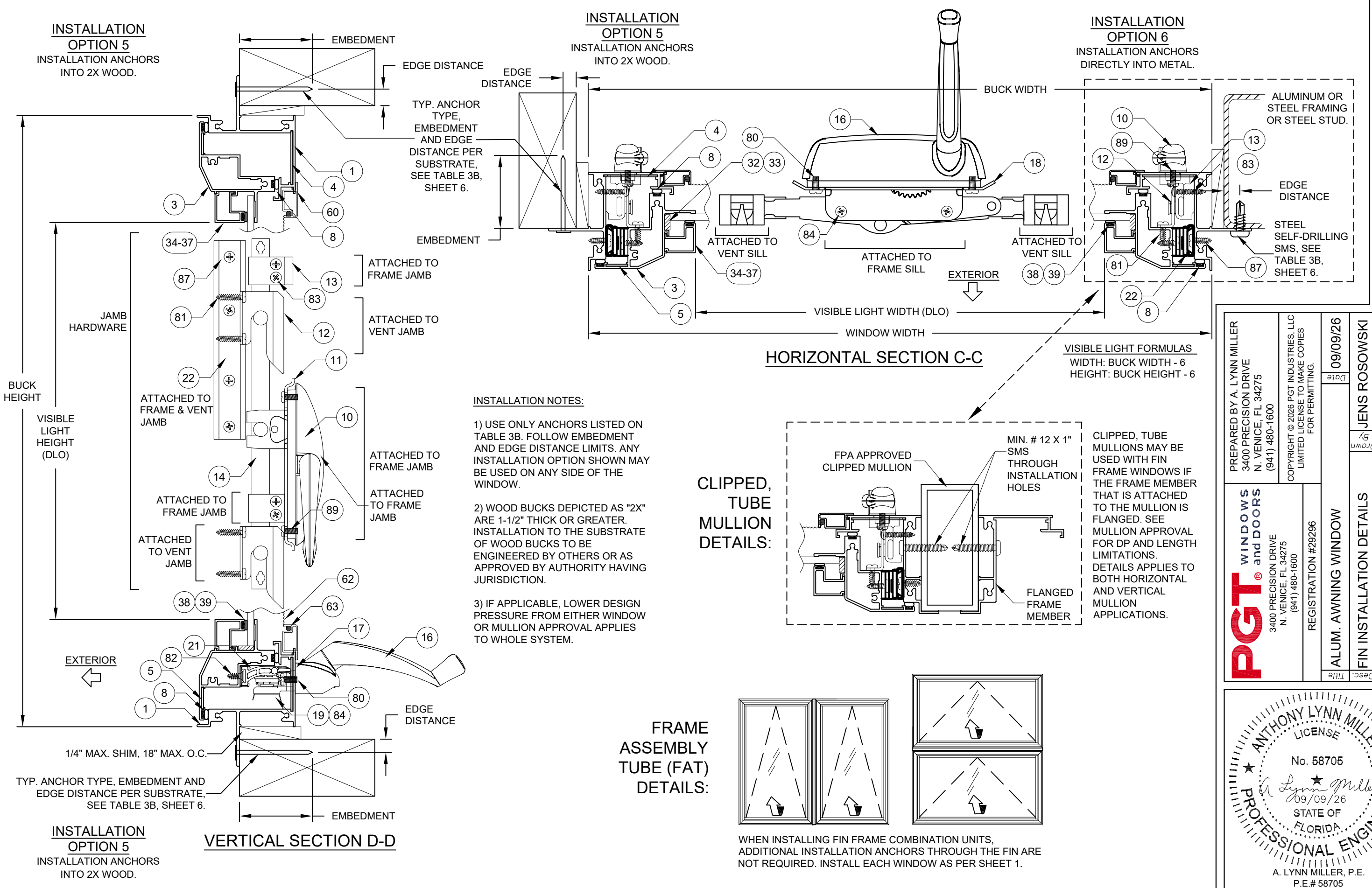
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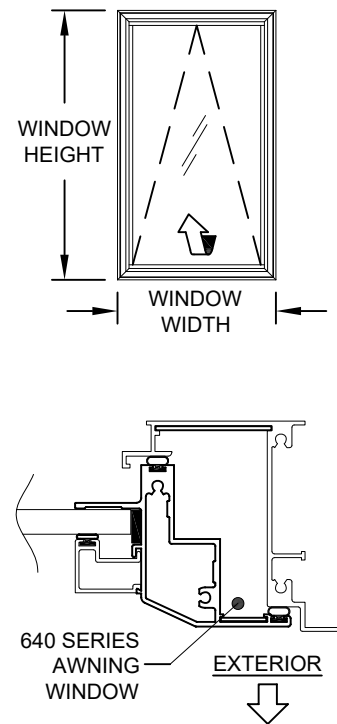
2 OF 14

AW640-NI-HVHZ

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09/09/26
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

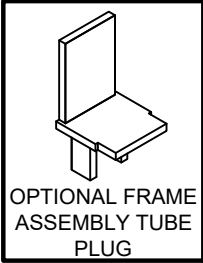


AWNING (X)

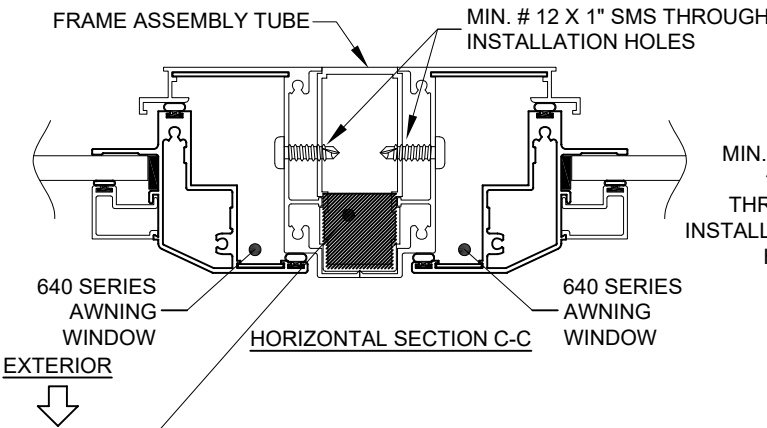
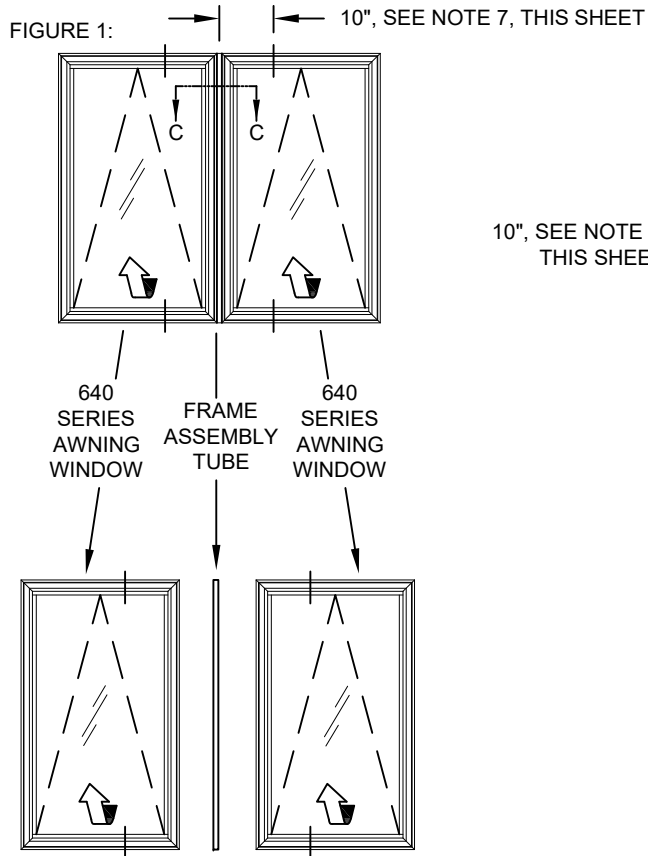


FOR SINGLE UNITS:

- 1) DETERMINE YOUR WINDOW SIZE AND GLASS.
- 2) KNOWING YOUR ANCHOR TYPE AND SUBSTRATE, DETERMINE YOUR ANCHOR GROUP FROM TABLE 3, SHEET 6.
- 3) FROM SHEETS 7-13, FIND THE SHEET FOR YOUR GLASS TYPE. FIND THE PRODUCT'S DESIGN PRESSURE FROM THE TABLE LABELED "DESIGN PRESSURE (PSF) FOR SINGLE WINDOWS, ALL ANCHOR GROUPS".
- 4) DIMENSIONS SHOWN ARE WINDOW. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLES.
- 5) USING THE TABLE LABELED "WINDOW ANCHORS REQUIRED" (TABLE 2, SHEET 5), DETERMINE THE NUMBER OF ANCHORS NEEDED IN THE HEAD, SILL AND JAMBS OF YOUR WINDOW.
- 6) INSTALL AS PER THE INSTRUCTIONS ON SHEETS 2 OR 3.



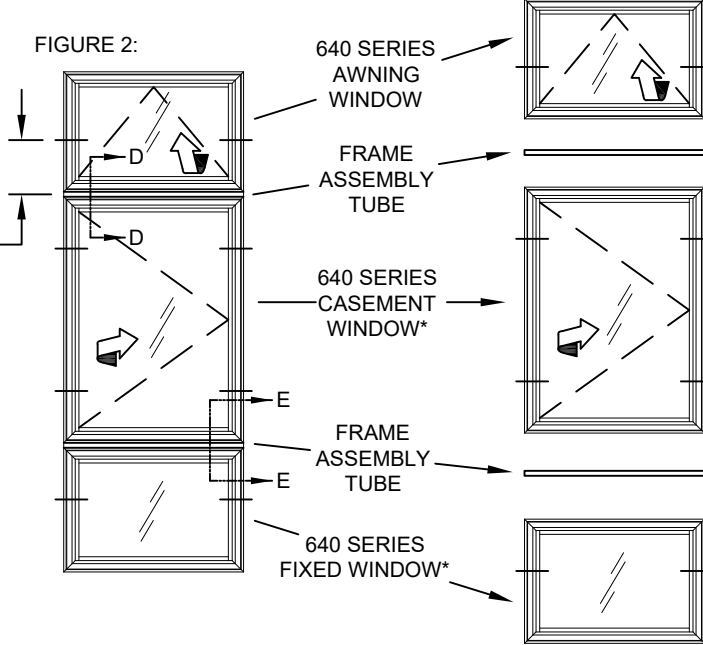
AWNING / AWNING (XX)



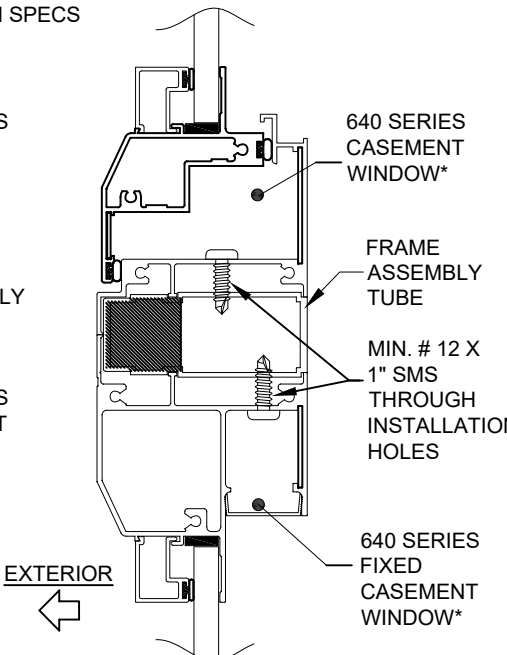
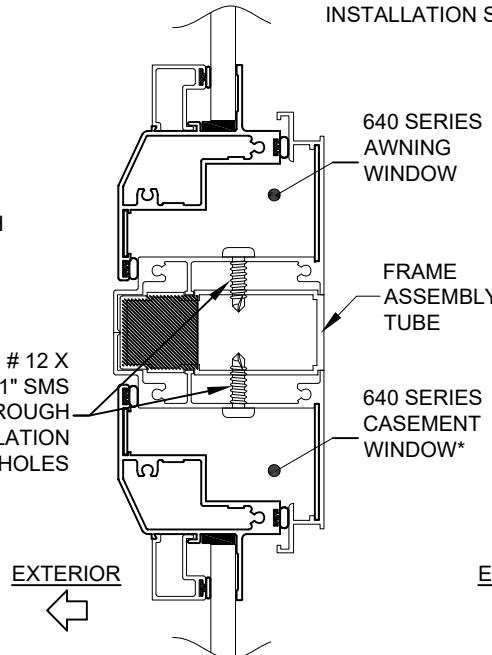
FOR EACH WINDOW IN A VERTICALLY OR HORIZONTALLY COMBINED ASSEMBLY:

- 1) DETERMINE EACH INDIVIDUAL WINDOW TYPE, SIZE AND GLASS MAKEUP, SEE FIGURES 1 & 2, THIS SHEET. DETERMINE YOUR ANCHOR GROUP FROM TABLE 3, SHEET 6.
- 2) FROM SHEETS 7-13, FIND THE SHEET FOR YOUR GLASS TYPE.
- 3) FIND THE DESIGN PRESSURE FROM THE TABLES LABELED "DESIGN PRESSURE (PSF) FOR WINDOWS ATTACHED TO A VERTICAL FRAME ASSEMBLY TUBE" OR "DESIGN PRESSURE (PSF) FOR WINDOWS ATTACHED TO A HORIZONTAL FRAME ASSEMBLY TUBE", DEPENDING ON WHICH WAY THE FRAME ASSEMBLY TUBE IS ORIENTATED. THIS MUST BE DONE FOR EACH WINDOW IN THE ASSEMBLY, AND THE LOWEST DESIGN PRESSURE APPLIES TO THE ENTIRE ASSEMBLY. DIMENSIONS SHOWN ARE WINDOW. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLES.
- 4) USING THE TABLE LABELED "WINDOW ANCHORS REQUIRED" (TABLE 2, SHEET 5), DETERMINE THE NUMBER OF ANCHORS NEEDED IN THE HEAD, SILL AND JAMBS OF YOUR WINDOW.
- 5) INSTALL AS PER THE INSTRUCTIONS ON SHEETS 2-4. 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 / FIXED CASEMENT (XXO)



*SEE PRODUCT'S FPA FOR INSTALLATION SPECS



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 [®] WINDOWS and DOORS 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296		ALUM. AWNING WINDOW		FRAME ASSEMBLY TUBE DETAILS		4 OF 14	
								AW640	

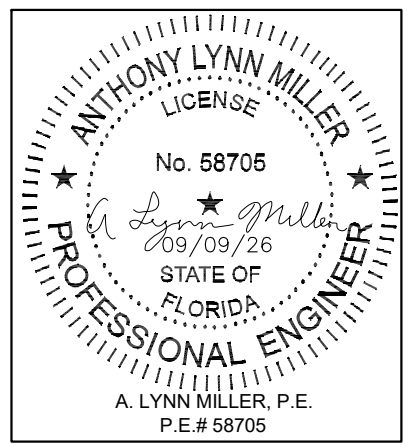


TABLE 2:

Window Anchors Required																																											
			Window Width (in)																																								
			under 23"				25-15/16"				27-7/8"				30-3/4"				32"				34"				37"				46"				53-1/8"				60"				
			Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group				
			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	A	B	C	D					
Window Height (in)	under 23"	Jamb	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2					
		Head/Sill	2	2	2	2	4	2	2	2	4	2	2	2	4	4	4	4	4	4	4	4	4	4	6	4	4	4	6	4	4	4	8	6	4	4	8	6	6	4			
	25-15/16"	Jamb	3	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2	
		Head/Sill	2	2	2	2	4	2	2	2	4	2	2	2	4	4	4	4	4	4	4	4	4	4	6	4	4	4	8	4	4	4	8	6	4	4	10	6	6	4			
	39"	Jamb	5	3	3	2	5	3	3	2	5	4	3	2	6	4	3	2	6	4	3	2	6	4	3	2	6	4	3	2	5	4	3	2	5	3	3	2	5	3	3	2	
		Head/Sill	2	2	2	2	4	2	2	2	4	2	2	2	4	4	4	4	4	4	4	4	6	4	4	4	6	4	4	4	8	6	4	4	10	6	6	4	10	8	6	4	
	50-5/8"	Jamb	7	4	4	4	7	5	4	4	8	5	4	4	8	5	4	4	8	5	5	4	9	6	5	4	9	6	5	4													
		Head/Sill	2	2	2	2	4	2	2	2	4	2	2	2	4	4	4	4	4	4	4	4	6	4	4	4	6	4	4	4	8	6	4	4									
	60"	Jamb	8	5	5	4	9	6	5	4	10	6	5	4	10	7	6	4	10	7	6	4	10	7	6	4	10	7	6	4													
		Head/Sill	2	2	2	2	4	2	2	2	4	2	2	2	4	4	4	4	4	4	4	4	4	4	4	4	6	4	4	4													
	63"	Jamb	9	6	5	4	10	6	5	4	10	7	6	4	11	7	6	4	11	7	6	4	11	7	6	4	11	7	6	4													
		Head/Sill	2	2	2	2	4	2	2	2	4	2	2	2	4	4	4	4	4	4	4	4	4	4	4	4	6	4	4	4													
	67"	Jamb	10	6	5	4	10	7	6	4	11	7	6	4	11	7	6	4	11	7	6	4	11	7	6	4																	
		Head/Sill	2	2	2	2	4	2	2	2	4	2	2	2	4	4	4	4	4	4	4	4	4	4	4	4																	
	72"	Jamb	10	7	6	5	11	7	6	5	12	8	6	5	12	8	7	5	12	8	7	5																					
		Head/Sill	2	2	2	2	4	2	2	2	4	2	2	2	4	4	4	4	4	4	4	4																					
	76"	Jamb	11	7	6	5	12	8	7	5	13	8	7	5	13	8	7	5																									
		Head/Sill	2	2	2	2	4	2	2	2	4	2	2	2	4	4	4	4																									
84"	Jamb	12	8	7	5	14	9	7	5	14	9	8	5																														
	Head/Sill	2	2	2	2	4	2	2	2	4	2	2	2																														

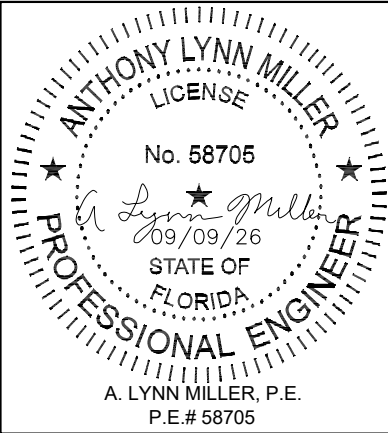
- 1) USE THIS TABLE FOR ALL FLANGE FRAME WINDOWS PER THE ELEVATIONS ON SHEET 1.
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
3) DIMENSIONS SHOWN ARE WINDOW TIP-TO-TIP. SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE BUCK SIZE.

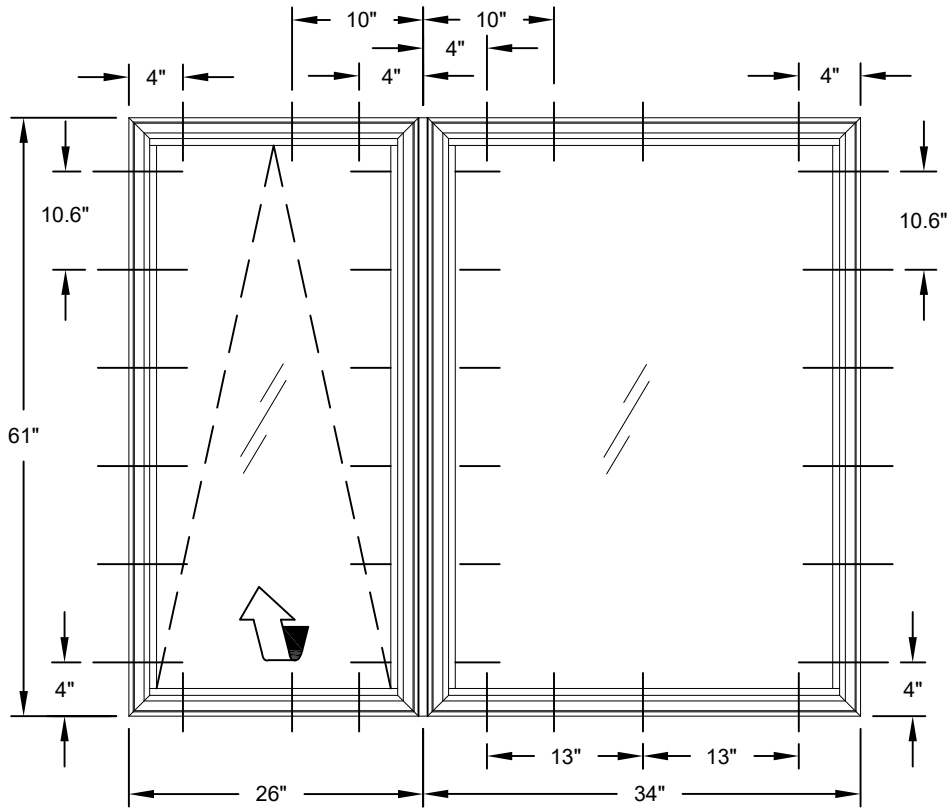
Rev. #

Date

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	ALUM. AWNING WINDOW		Date				
FLANGE FRAME ANCHOR QTYS		By		Drawn		AW640	
Series		Desc.		Title			
5 OF 14		Dwg No.		Sheet		5 OF 14	
5 OF 14		Dwg No.		Sheet			





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

- AWNING ANCHORS:**
- A) FROM TABLE 8, ANCHORS C & D ALLOW A DP OF +70/-90.
- B) FOR THE JAMB, FROM TABLE 3, ANCHORS IN GROUP C HAVE THE ANCHOR AND SUBSTRATE DESIRED AND DOES NOT REQUIRE THE ANCHOR PLATE IF USING THE CRETEFLEX ANCHOR.
- C) FROM TABLE 2, 6 ANCHORS ARE REQUIRED IN EACH JAMB.
- D) SIMILARLY, 2 ANCHORS ARE REQUIRED IN THE HEAD & SILL.
- E) DISTRIBUTE ANCHORS FOLLOWING GUIDELINES FROM ELEVATION ON SHEET 1.
- F) PER RULES ON SHEETS 2 & 4, INSTALL 1 ADDITIONAL ANCHOR ON THE FRAME ASSEMBLY TUBE SIDE OF THE AWNING (HEAD & SILL).
- FIXED CASEMENT ANCHORS:**
- A) FROM TABLE 11, A 34" X 61" FIXED CASEMENT WINDOW HAS A DESIGN PRESSURE OF +70/-90 USING ANY ANCHOR FROM GROUPS A, B, C OR D.
- B) FOR THE JAMB, FROM TABLE 3, ANCHOR TYPE C HAS THE ANCHOR AND SUBSTRATE DESIRED AND DOES NOT REQUIRE THE ANCHOR PLATE IF USING THE CRETEFLEX ANCHOR.
- C) FROM TABLE 2A, 6 ANCHORS ARE REQUIRED IN EACH JAMB.
- D) SIMILARLY, 3 ANCHORS ARE REQUIRED IN THE HEAD & SILL.
- E) DISTRIBUTE ANCHORS FOLLOWING GUIDELINES FROM ELEVATION ON SHEET 1.
- F) PER RULES ON SHEET 2, INSTALL 1 ADDITIONAL ANCHOR ON THE FRAME ASSEMBLY TUBE SIDE OF THE FIXED CASEMENT (HEAD & SILL).

TABLE 3A: THROUGH FRAME ANCHORS

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

- 1) MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
- 2) ALL SCREWHEAD TYPES ARE APPLICABLE.
- 3) 18-8 FASTENERS SHALL BE MANUFACTURED FROM TYPE 304 OR 305 STAINLESS STEEL PER ASTM A240.
- 4) IF COMBINING ANCHOR TYPES FROM DIFFERENT ANCHOR GROUPS ON THE SAME UNIT, THE GREATER ANCHOR QUANTITY FROM EITHER GROUP SHALL BE USED FOR THE ENTIRE UNIT.
- 5) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

TABLE 3B: 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)

- 1) MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
- 2) ALL SCREWHEAD TYPES ARE APPLICABLE.
- 3) 18-8 FASTENERS SHALL BE MANUFACTURED FROM TYPE 304 OR 305 STAINLESS STEEL PER ASTM A240.

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REGISTRATION #29296

09/09/26

ALUM. AWNING WINDOW

EXAMPLE & ANCHOR DETAILS

AW640

AW640-NI-HVHZ

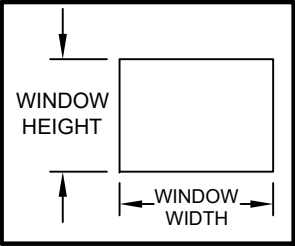
6 OF 14

6 OF 14

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

TABLE 4:

		Design Pressure (psf) for Single Windows, All Anchor Groups									
		Window Width									
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"	37"	46"	53-1/8"	60"
Window Height	under 23"	+/- 80.2	+/- 72	+/- 68.2	+/- 64	+/- 62.5	+/- 60.5	+/- 58.1	+/- 53.4	+/- 49.9	+/- 45.8
	25-15/16"	+/- 72	+/- 71	+/- 66.5	+/- 61.4	+/- 59.7	+/- 57.4	+/- 54.7	+/- 49.5	+/- 43.7	+/- 38
	39"	+/- 56.8	+/- 53.2	+/- 51.5	+/- 49.5	+/- 48.8	+/- 48	+/- 47.4	+/- 41	+/- 37.3	+/- 34.3
	50-5/8"	+/- 51.9	+/- 46.9	+/- 45.6	+/- 43	+/- 42.1	+/- 40.8	+/- 39.2	+/- 35.1		
	60"	+/- 45.8	+/- 38	+/- 36.2	+/- 36.1	+/- 36.2	+/- 36.2	+/- 35.6			
	63"	+/- 44.5	+/- 36.2	+/- 33.7	+/- 33.1	+/- 33.3	+/- 33.7	+/- 33.2			
	67"	+/- 43.1	+/- 34.1	+/- 30.8	+/- 29.8	+/- 30	+/- 30.3				
	72"	+/- 41.6	+/- 32	+/- 28.7	+/- 26.7	+/- 26.6					
	76"	+/- 40.7	+/- 30.8	+/- 27.3	+/- 24.8						
	84"	+/- 39.4	+/- 29.3	+/- 25.3							



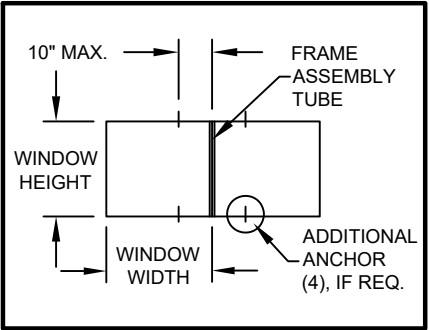
SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

POSITIVE PRESSURE LIMITED TO +70 PSF FOR INTEGRAL FIN FRAMES ONLY

FOR GLASS TYPES:
1) 1/8" Annealed
FOR FRAME TYPES:
Flange & Integral Fin

TABLE 5:

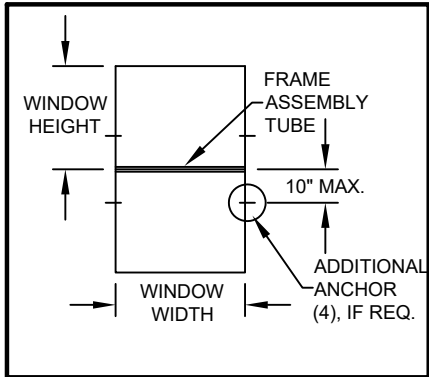
		Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube									
		Window Width									
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"	37"	46"	53-1/8"	60"
Window Height	Anchor Group										
	Anchor Group										
	All										
	under 23"	+70/-80.2	+70/-72	+/-68.2	+/-64	+/-62.5	+/-60.5	+/-58.1	+/-53.4	+/-49.9	+/-45.8
	25-15/16"	+70/-72	+70/-71	+/-66.5	+/-61.4	+/-59.7	+/-57.4	+/-54.7	+/-49.5	+/-43.7	+/-38
	39"	+/-56.8	+/-53.2	+/-51.5	+/-49.5	+/-48.8	+/-48	+/-47.4	+/-41	+/-37.3	+/-34.3
	50-5/8"	+/-51.9	+/-46.9	+/-45.6	+/-43	+/-42.1	+/-40.8	+/-39.2	+/-35.1		
	60"	+/-45.8	+/-38	+/-36.2	+/-36.1	+/-36.2	+/-36.2	+/-35.6			
	63"	+/-44.5	+/-36.2	+/-33.7	+/-33.1	+/-33.3	+/-33.7	+/-33.2			



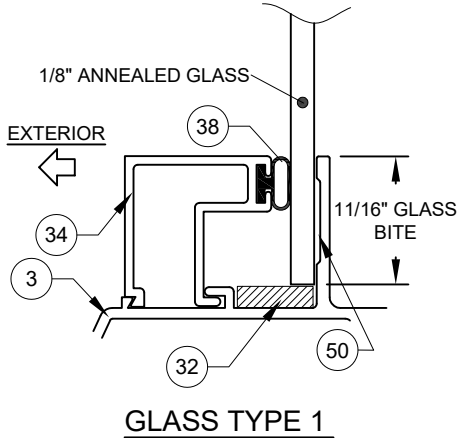
SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEETS 2 OR 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

TABLE 6:

		Design Pressure (psf) for Windows Attached to a Horizontal Frame Assembly Tube									
		Window Width									
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"	37"	46"	53-1/8"	60"
Window Height	Anchor Group										
	Anchor Group										
	All										
	under 23"	+70/-80.2	+70/-72	+/-68.2	+/-64	+/-62.5	+/-60.5	+/-58.1	+/-53.4	+/-49.9	+/-45.8
	25-15/16"	+70/-72	+70/-71	+/-66.5	+/-61.4	+/-59.7	+/-57.4	+/-54.7	+/-49.5	+/-43.7	+/-38
	39"	+/-56.8	+/-53.2	+/-51.5	+/-49.5	+/-48.8	+/-48	+/-47.4	+/-41	+/-37.3	+/-34.3
	50-5/8"	+/-51.9	+/-46.9	+/-45.6	+/-43	+/-42.1	+/-40.8	+/-39.2	+/-35.1		
	60"	+/-45.8	+/-38	+/-36.2	+/-36.1	+/-36.2	+/-36.2	+/-35.6			
	63"	+/-44.5	+/-36.2	+/-33.7	+/-33.1	+/-33.3	+/-33.7	+/-33.2			
	67"	+/-43.1	+/-34.1	+/-30.8	+/-29.8	+/-30	+/-30.3				
	72"	+/-41.6	+/-32	+/-28.7	+/-26.7	+/-26.6					
	76"	+/-40.7	+/-30.8	+/-27.3	+/-24.8						
	84"	+/-39.4	+/-29.3	+/-25.3							



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEETS 2 OR 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.



NOTES:
1) SEE SHEET 1 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
2) TIP-TO-TIP DIMENSIONS SHOWN. SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE BUCK SIZE.

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PGT [®] WINDOWS and DOORS		3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296		ALUM. AWNING WINDOW		7 OF 14	
DESIGN PRESSURES PER GLAZING TYPES		AW640		Sheet		Title		Desc.	

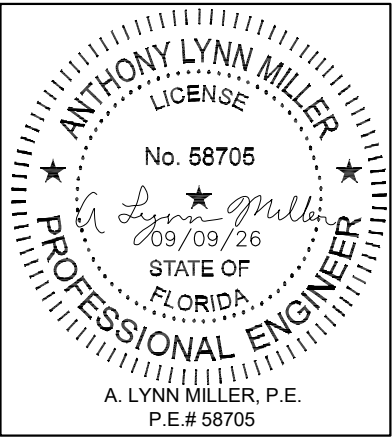
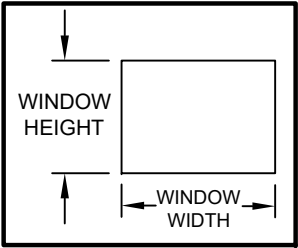


TABLE 7:

Design Pressure (psf) for Single Windows, All Anchor Groups										
	Window Width									
	under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"	37"	46"	53-1/8"	60"
Window Height	under 23"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150
	25-15/16"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150
	39"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-138.6	+90/-130
	50-5/8"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-145.8	+90/-136.3		
	60"	+90/-150	+90/-150	+90/-144.9	+90/-144.2	+90/-144.9	+90/-140.4	+90/-133.7		
	63"	+90/-150	+90/-144.9	+90/-134.9	+90/-132.2	+90/-133.1	+90/-134.7	+90/-130.9		
	67"	+90/-150	+90/-136.4	+90/-123.3	+90/-119.3	+90/-119.8	+90/-121			
	72"	+90/-150	+90/-128.1	+90/-114.9	+90/-106.6	+90/-106.3				
	76"	+90/-150	+90/-123.1	+90/-109	+90/-99.3					
	84"	+90/-150	+90/-117.2	+90/-101.2						



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

FOR GLASS TYPES:

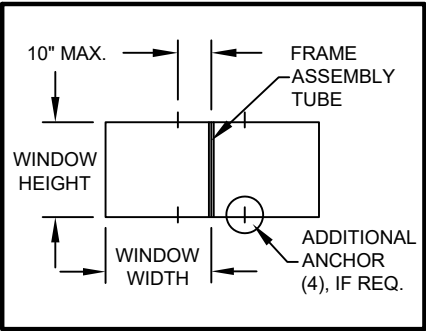
- 2) 1/8" Tempered
4) 3/16" Tempered
6) 1/4" Tempered

FOR FRAME TYPES:

Flange Only

TABLE 8:

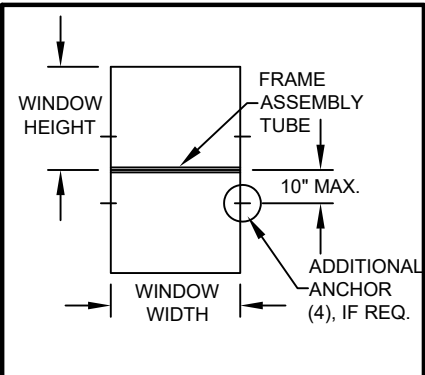
		Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube																						
		Window Width																						
		under 23"				25-15/16"			27-7/8"			30-3/4"		32"		34"		37"			46"	53-1/8"	60"	
		Anchor Group				Anchor Group			Anchor Group			Anchor Group		Anchor Group		Anchor Group		Anchor Group			Anchor Group	Anchor Group	Anchor Group	
		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	All	All	All	
Window Height	under 23"	+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
	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/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	39"	+70/-90	+70/-75.2	+70/-89.9	+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
	50-5/8"	+70/-72.3	+/-57.9	+/-69.3	+70/-90	+70/-90	+70/-90	+70/-90	+70/-89.4	+70/-90	+70/-90	+70/-81	+70/-90	+70/-77.9	+70/-90	+70/-90	+70/-90	+70/-89.8	+70/-90	+70/-90	+70/-90	+70/-90		
	60"	+/-61	+/-48.9	+/-58.5	+70/-90	+70/-81.1	+70/-86.6	+70/-90	+70/-75.5	+70/-80.6	+70/-90	+/-68.4	+70/-90	+/-65.7	+70/-90	+/-61.8	+70/-90	+70/-75.8	+70/-90	+70/-90	+70/-90			
	63"	+/-58.1	+/-46.5	+/-55.7	+70/-88.7	+70/-77.2	+70/-82.5	+70/-90	+70/-71.9	+70/-76.8	+70/-90	+/-65.1	+70/-90	+/-62.6	+70/-90	+/-58.9	+70/-90	+70/-72.2	+70/-86.7	+70/-90				



SEE SHEETS 1 &
5 FOR WINDOW
ANCHOR
LOCATIONS AND
QUANTITIES.
SEE SHEETS 2
OR 3 FOR ANY
ADDITIONAL
ANCHORS
REQUIRED FOR
THE FRAME
ASSEMBLY
TUBE.

TABLE 9:

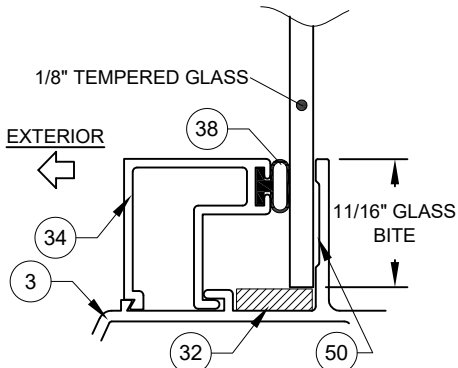
		Design Pressure (psf) for Windows Attached to a Horizontal Frame Assembly Tube																						
		Window Width																						
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"			37"			46"				53-1/8"				60"			
		Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group			Anchor Group			Anchor Group				Anchor Group							
Window Height		All	All	All	All	All	A	B	C & D	A	B	C & D	A	B	C	D	A	B	C	D	A	B	C	D
	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-86.2	+70/-90	+70/-90	+70/-79.2	+70/-90	+70/-79.5	+/-63.7	+70/-76.3	+70/-90	+/-68.9	+/-55.2	+/-66	+70/-90	+/-61	+/-48.9	+/-58.5	+70/-90
	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/-88.1	+70/-90	+70/-90	+70/-90	+70/-76.3	+70/-90	+70/-90	+70/-90	+/-67.5	+70/-86.6	+70/-90	+70/-90
	39"	+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/-71	+70/-90	+70/-90	+70/-90	+/-62.9	+70/-72	+70/-86.2	+70/-90
	50-5/8"	+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								
	60"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+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												
	67"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90															
	72"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90																		
	76"	+70/-90	+70/-90	+70/-90	+70/-90																			
84"	+70/-90	+70/-90	+70/-90																					



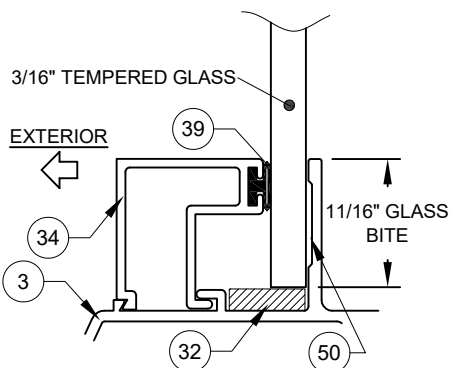
SEE SHEETS 1 & 5 FOR WINDOW ANCHOR
LOCATIONS AND QUANTITIES. SEE SHEETS 2
OR 3 FOR ANY ADDITIONAL ANCHORS
REQUIRED FOR THE FRAME ASSEMBLY TUBE.

NOTES:

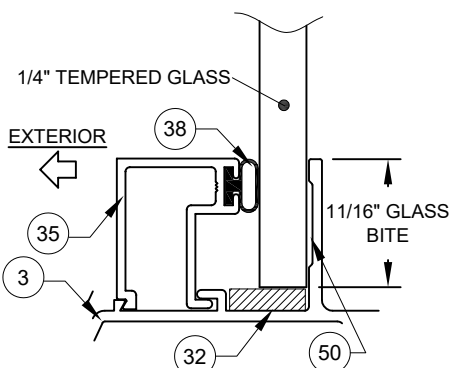
- 1) SEE SHEET 1 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
2) TIP-TO-TIP DIMENSIONS SHOWN. SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE BUCK SIZE.



GLASS TYPE 2



GLASS TYPE 4



GLASS TYPE 6

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Series		Desc.		Title		Sheet		DWG	
AW640									

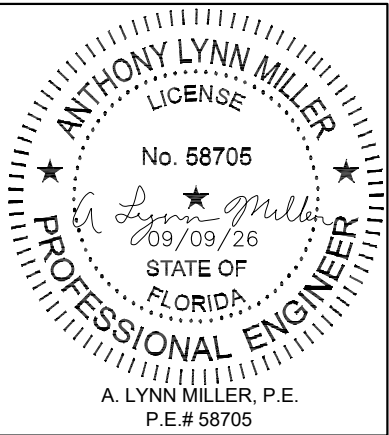
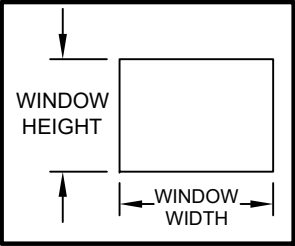


TABLE 10:

		Design Pressure (psf) for Single Windows, All Anchor Groups									
		Window Width									
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"	37"	46"	53-1/8"	60"
Window Height	under 23"	+90/-103.1	+90/-92.5	+/- 87.7	+/- 82.3	+/- 80.4	+/- 77.8	+/- 74.8	+/- 68.7	+/- 65.8	+/- 63.7
	25-15/16"	+90/-92.5	+90/-91.3	+/- 85.5	+/- 79	+/- 76.8	+/- 73.8	+/- 70.3	+/- 63.6	+/- 60.4	+/- 58.3
	39"	+/- 73.1	+/- 68.4	+/- 66.2	+/- 63.6	+/- 62.8	+/- 61.8	+/- 60.9	+/- 52.7	+/- 48	+/- 45
	50-5/8"	+/- 66.7	+/- 61.4	+/- 58.7	+/- 55.3	+/- 54.1	+/- 52.5	+/- 50.5	+/- 47.2		
	60"	+/- 63.7	+/- 58.3	+/- 55.4	+/- 51.8	+/- 50.5	+/- 48.6	+/- 46.3			
	63"	+/- 63	+/- 57.5	+/- 54.6	+/- 51	+/- 49.6	+/- 47.7	+/- 45.3			
	67"	+/- 62.2	+/- 56.6	+/- 53.7	+/- 50	+/- 48.6	+/- 46.7				
	72"	+/- 61.3	+/- 55.7	+/- 52.7	+/- 49	+/- 47.6					
	76"	+/- 60.7	+/- 55.1	+/- 52.1	+/- 48.3						
	84"	+/- 59.7	+/- 54	+/- 51							

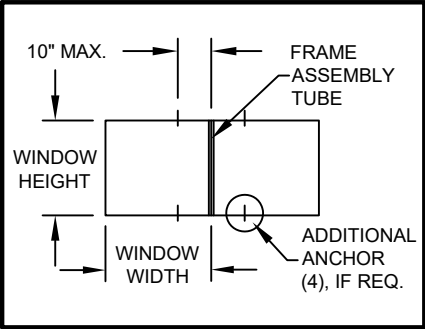


SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

! POSITIVE PRESSURE LIMITED TO +70 PSF FOR INTEGRAL FIN FRAMES ONLY

TABLE 11:

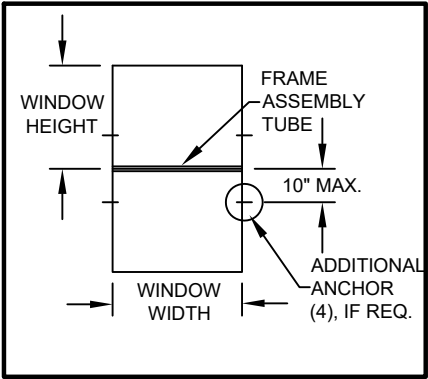
		Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube														
		Window Width														
		under 23"				25-15/16"		27-7/8"		30-3/4"	32"	34"	37"	46"	53-1/8"	60"
		Anchor Group				Anchor Group		Anchor Group		Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group
		A	B	C	D & E	A	B, C, D & E	A	B, C, D & E	All	All	All	All	All	All	All
Window Height	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.7	+70/-87.7	+70/-82.3	+70/-80.4	+70/-77.8	+70/-74.8	+/-68.7	+/-65.8	+/-63.7
	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-85.5	+70/-85.5	+70/-79	+70/-76.8	+70/-73.8	+70/-70.3	+/-63.6	+/-60.4	+/-58.3
	39"	+70/-73.1	+70/-73.1	+70/-73.1	+70/-73.1	+/-68.4	+/-68.4	+/-66.2	+/-66.2	+/-63.6	+/-62.8	+/-61.8	+/-60.9	+/-52.7	+/-48	+/-45
	50-5/8"	+/-66.7	+/-57.9	+/-66.7	+/-66.7	+/-61.4	+/-61.4	+/-58.7	+/-58.7	+/-55.3	+/-54.1	+/-52.5	+/-50.5	+/-47.2		
	60"	+/-61	+/-48.9	+/-58.5	+/-63.7	+/-54	+/-58.3	+/-50.3	+/-55.4	+/-51.8	+/-50.5	+/-48.6	+/-46.3			
	63"	+/-58.1	+/-46.5	+/-55.7	+/-63	+/-51.5	+/-57.5	+/-47.9	+/-54.6	+/-51	+/-49.6	+/-47.7	+/-45.3			



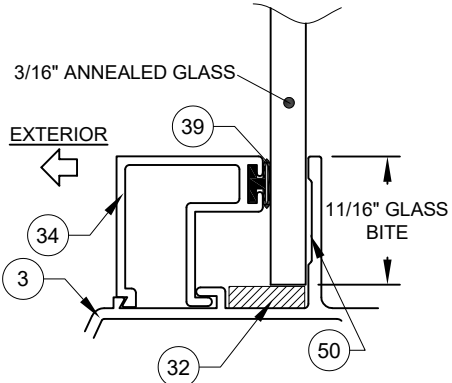
SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEETS 2 OR 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

TABLE 12:

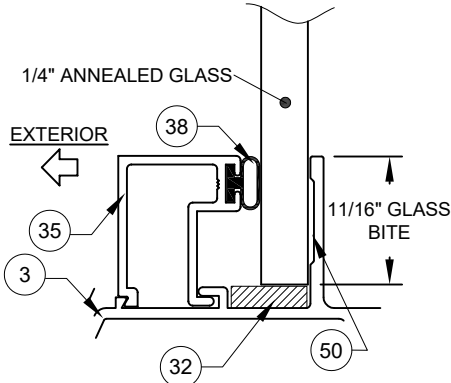
		Design Pressure (psf) for Windows Attached to a Horizontal Frame Assembly Tube																
		Window Width																
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"	37"	46"			53-1/8"			60"			
		Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group			Anchor Group			Anchor Group			
		All	All	All	All	All	All	All	A	B	C, D & E	A	B	C, D & E	A	B	C	D & E
Window Height	under 23"	+70/-90	+70/-90	+70/-87.7	+70/-82.3	+70/-80.4	+70/-77.8	+70/-74.8	+/-68.7	+/-63.7	+/-68.7	+/-65.8	+/-55.2	+/-65.8	+/-61	+/-48.9	+/-58.5	+/-63.7
	25-15/16"	+70/-90	+70/-90	+70/-85.5	+70/-79	+70/-76.8	+70/-73.8	+70/-70.3	+/-63.6	+/-63.6	+/-63.6	+/-60.4	+/-60.4	+/-60.4	+/-54	+/-58.3	+/-58.3	+/-58.3
	39"	+70/-73.1	+/-68.4	+/-66.2	+/-63.6	+/-62.8	+/-61.8	+/-60.9	+/-46.9	+/-52.7	+/-52.7	+/-40.6	+/-48	+/-48	+/-35.9	+/-45	+/-45	+/-45
	50-5/8"	+/-66.7	+/-61.4	+/-58.7	+/-55.3	+/-54.1	+/-52.5	+/-50.5	+/-47.2	+/-47.2	+/-47.2							
	60"	+/-63.7	+/-58.3	+/-55.4	+/-51.8	+/-50.5	+/-48.6	+/-46.3										
	63"	+/-63	+/-57.5	+/-54.6	+/-51	+/-49.6	+/-47.7	+/-45.3										
	67"	+/-62.2	+/-56.6	+/-53.7	+/-50	+/-48.6	+/-46.7											
	72"	+/-61.3	+/-55.7	+/-52.7	+/-49	+/-47.6												
	76"	+/-60.7	+/-55.1	+/-52.1	+/-48.3													
	84"	+/-59.7	+/-54	+/-51														



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEETS 2 OR 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.



GLASS TYPE 3



GLASS TYPE 5

NOTES:
1) SEE SHEET 1 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
2) TIP-TO-TIP DIMENSIONS SHOWN. SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE BUCK SIZE.

FOR GLASS TYPES:

- 3) 3/16" Annealed
- 5) 1/4" Annealed

FOR FRAME TYPES:

Flange & Integral Fin

Rev.#	
Date	
Rev.	

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.		09/09/26 Date		JENS ROSOWSKI By		AW640-NI-HVHZ	
PGT [®] WINDOWS and DOORS 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296		ALUM. AWNING WINDOW		DESIGN PRESSURES PER GLAZING TYPES		9 OF 14	
				Title		Desc.		Sheet	
				AW640				DWG	
								No.	

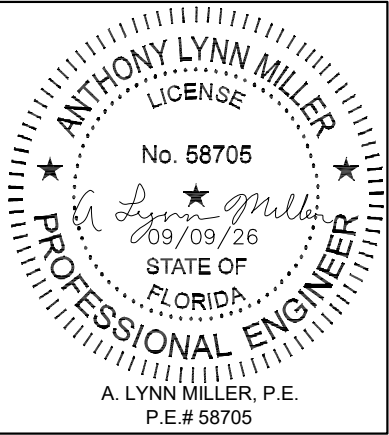
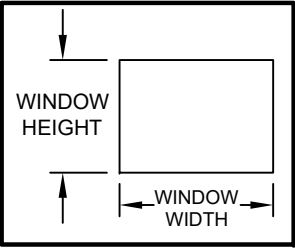


TABLE 13:

		Design Pressure (psf) for Single Windows, All Anchor Groups									
		Window Width									
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"	37"	46"	53-1/8"	60"
Window Height	under 23"	+90/-148.9	+90/-133.7	+90/-126.7	+90/-118.9	+90/-116.2	+90/-112.4	+90/-108	+90/-99.2	+/- 89.8	+/- 82.4
	25-15/16"	+90/-133.7	+90/-131.9	+90/-123.4	+90/-114.1	+90/-110.9	+90/-106.7	+90/-101.6	+90/-91.9	+/- 78.7	+/- 68.4
	39"	+90/-105.5	+90/-98.8	+90/-95.6	+90/-91.9	+90/-90.7	+/- 89.2	+/- 88	+/- 76.2	+/- 69.3	+/- 61.7
	50-5/8"	+90/-93.4	+/- 84.5	+/- 83.5	+/- 79.9	+/- 78.2	+/- 75.8	+/- 72.9	+/- 63.2		
	60"	+/- 82.4	+/- 68.4	+/- 65.2	+/- 64.9	+/- 65.2	+/- 65.1	+/- 64			
	63"	+/- 80.1	+/- 65.2	+/- 60.7	+/- 59.5	+/- 59.9	+/- 60.6	+/- 59.7			
	67"	+/- 77.5	+/- 61.4	+/- 55.5	+/- 53.7	+/- 53.9	+/- 54.5				
	72"	+/- 74.9	+/- 57.7	+/- 51.7	+/- 48	+/- 47.8					
	76"	+/- 73.2	+/- 55.4	+/- 49.1	+/- 44.7						
84"	+/- 71	+/- 52.7	+/- 45.5								



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

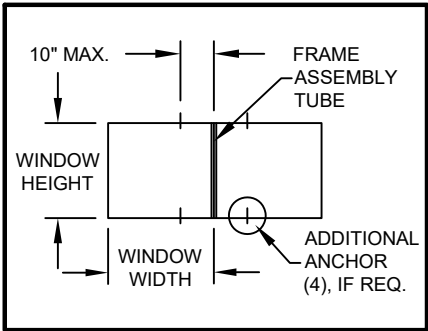
FOR GLASS TYPE:
7) 9/16" IG: (1/8" An - 5/16" Air - 1/8" An)

FOR FRAME TYPES:
Flange & Integral Fin

! POSITIVE PRESSURE LIMITED TO +70 PSF FOR INTEGRAL FIN FRAMES ONLY

TABLE 14:

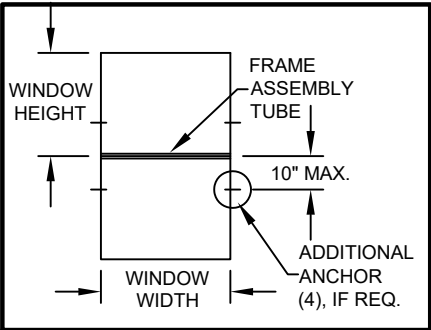
		Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube																			
		Window Width																			
		under 23"				25-15/16"		27-7/8"		30-3/4"	32"		34"		37"		46"		53-1/8"	60"	
		Anchor Group				Anchor Group		Anchor Group		Anchor Group	Anchor Group		Anchor Group		Anchor Group		Anchor Group		Anchor Group	Anchor Group	
		A	B	C	D & E	A	B, C, D & E	A	B, C, D & E	All	A	B, C, D & E	A	B, C, D & E	A	B, C, D & E	A	B, C, D & E	All	All	
Window Height	under 23"	+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/-89.8	+70/-82.4		
	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/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-78.7	+/-68.4		
	39"	+70/-90	+70/-75.2	+70/-89.9	+70/-90	+70/-83.1	+70/-90	+70/-77.4	+70/-90	+70/-90	+70/-90	+70/-90	+70/-89.2	+70/-89.2	+70/-87.4	+70/-88	+70/-70.3	+70/-76.2	+/-69.3	+/-61.7	
	50-5/8"	+70/-72.3	+/-57.9	+/-69.3	+70/-90	+/-64	+70/-84.5	+/-59.6	+70/-83.5	+70/-79.9	+70/-77.9	+70/-78.2	+70/-73.3	+70/-75.8	+/-67.3	+70/-72.9	+/-54.2	+/-63.2			
	60"	+/-61	+/-48.9	+/-58.5	+70/-82.4	+/-54	+/-68.4	+/-50.3	+/-65.2	+/-64.9	+/-65.2	+/-65.2	+/-61.8	+/-65.1	+/-56.8	+/-64					
	63"	+/-58.1	+/-46.5	+/-55.7	+70/-80.1	+/-51.5	+/-65.2	+/-47.9	+/-60.7	+/-59.5	+/-59.9	+/-59.9	+/-58.9	+/-60.6	+/-54.1	+/-59.7					



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEETS 2 OR 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

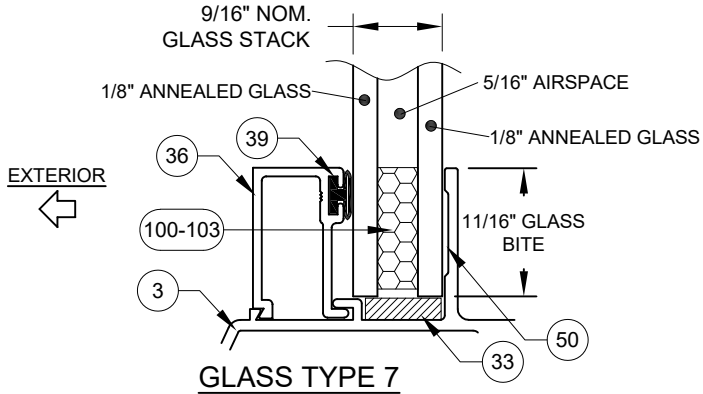
TABLE 15:

		Design Pressure (psf) for Windows Attached to a Horizontal Frame Assembly Tube																						
		Window Width																						
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"			37"			46"				53-1/8"				60"			
		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	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 Height	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-86.2	+70/-90	+70/-90	+70/-79.2	+70/-90	+70/-79.5	+/-63.7	+70/-76.3	+70/-90	+/-68.9	+/-55.2	+/-66	+70/-89.8	+/-61	+/-48.9	+/-58.5	+70/-82.4
	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.6	+70/-90	+70/-90	+70/-70.5	+70/-90	+70/-90	+70/-90	+/-61	+70/-78.7	+70/-78.7	+70/-78.7	+/-54	+/-68.4	+/-68.4	+/-68.4
	39"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-89.2	+70/-89.2	+70/-89.2	+70/-87.4	+70/-88	+70/-88	+/-58.6	+70/-75.1	+70/-76.2	+70/-76.2	+/-50.7	+/-65.1	+/-69.3	+/-69.3	+/-44.9	+/-57.6	+/-61.7	+/-61.7
	50-5/8"	+70/-90	+70/-84.5	+70/-83.5	+70/-79.9	+70/-78.2	+70/-75.8	+70/-75.8	+70/-75.8	+70/-72.9	+70/-72.9	+70/-72.9	+/-54.2	+/-63.2	+/-63.2	+/-63.2								
	60"	+70/-82.4	+/-68.4	+/-65.2	+/-64.9	+/-65.2	+/-65.1	+/-65.1	+/-65.1	+/-64	+/-64	+/-64												
	63"	+70/-80.1	+/-65.2	+/-60.7	+/-59.5	+/-59.9	+/-60.6	+/-60.6	+/-60.6	+/-59.7	+/-59.7	+/-59.7												
	67"	+70/-77.5	+/-61.4	+/-55.5	+/-53.7	+/-53.9	+/-54.5	+/-54.5	+/-54.5															
	72"	+70/-74.9	+/-57.7	+/-51.7	+/-48	+/-47.8																		
	76"	+70/-73.2	+/-55.4	+/-49.1	+/-44.7																			
84"	+70/-71	+/-52.7	+/-45.5																					



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEETS 2 OR 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

NOTES:
1) SEE SHEET 1 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
2) TIP-TO-TIP DIMENSIONS SHOWN. SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE BUCK SIZE.



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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REGISTRATION #29296

09/09/26
Date

By
JENS ROSOWSKI

ALUM. AWNING WINDOW
DESIGN PRESSURES PER
GLAZING TYPES

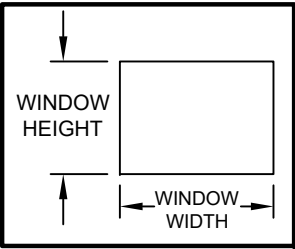
10 OF 14
Sheet

AW640-NI-HVHZ
DWG No.

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

TABLE 16:

		Design Pressure (psf) for Single Windows, All Anchor Groups									
		Window Width									
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"	37"	46"	53-1/8"	60"
Window Height	under 23"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150
	25-15/16"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150
	39"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-138.6	+90/-130
	50-5/8"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-145.8	+90/-136.3		
	60"	+90/-150	+90/-150	+90/-150	+90/-149.6	+90/-145.8	+90/-140.4	+90/-133.7			
	63"	+90/-150	+90/-150	+90/-150	+90/-147.2	+90/-143.4	+90/-137.9	+90/-130.9			
	67"	+90/-150	+90/-150	+90/-150	+90/-144.4	+90/-140.5	+90/-134.9				
	72"	+90/-150	+90/-150	+90/-150	+90/-141.5	+90/-137.5					
	76"	+90/-150	+90/-150	+90/-150	+90/-139.5						
	84"	+90/-150	+90/-150	+90/-147.3							



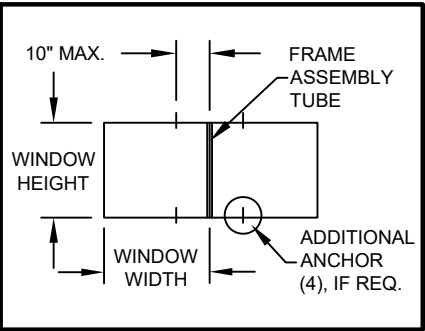
SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

FOR GLASS TYPES:
8) 9/16" IG: (1/8" T - 5/16" Air - 1/8" T)
10) 7/8" IG: (3/16" T - 1/2" Air - 3/16" T)

FOR FRAME TYPES:
Flange Only

TABLE 17:

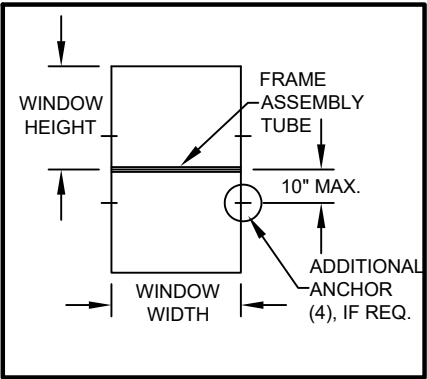
		Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube																						
		Window Width																						
		under 23"				25-15/16"			27-7/8"			30-3/4"		32"		34"		37"			46"	53-1/8"	60"	
		Anchor Group				Anchor Group			Anchor Group			Anchor Group		Anchor Group		Anchor Group		Anchor Group			Anchor Group	Anchor Group	Anchor Group	
		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	All	All	All	
Window Height	under 23"	+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
	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/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	39"	+70/-90	+70/-75.2	+70/-89.9	+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
	50-5/8"	+70/-72.3	+/-57.9	+/-69.3	+70/-90	+70/-90	+70/-90	+70/-90	+70/-89.4	+70/-90	+70/-90	+70/-81	+70/-90	+70/-77.9	+70/-90	+70/-90	+70/-90	+70/-89.8	+70/-90	+70/-90	+70/-90	+70/-90		
	60"	+/-61	+/-48.9	+/-58.5	+70/-90	+70/-81.1	+70/-86.6	+70/-90	+70/-75.5	+70/-80.6	+70/-90	+/-68.4	+70/-90	+/-65.7	+70/-90	+/-61.8	+70/-90	+70/-75.8	+70/-90	+70/-90	+70/-90			
	63"	+/-58.1	+/-46.5	+/-55.7	+70/-88.7	+70/-77.2	+70/-82.5	+70/-90	+70/-71.9	+70/-76.8	+70/-90	+/-65.1	+70/-90	+/-62.6	+70/-90	+/-58.9	+70/-90	+70/-72.2	+70/-86.7	+70/-90				



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEETS 2 OR 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

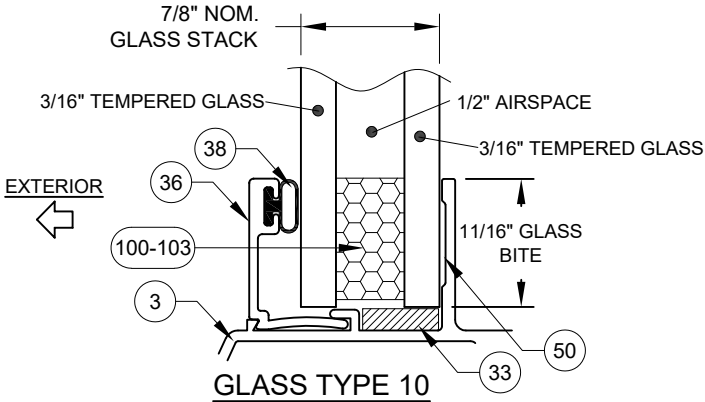
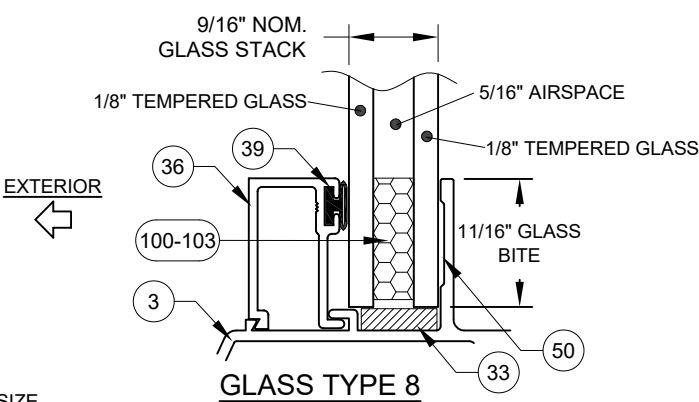
TABLE 18:

		Design Pressure (psf) for Windows Attached to a Horizontal Frame Assembly Tube																						
		Window Width																						
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"			37"			46"				53-1/8"				60"			
		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	A	B	C & D	A	B	C & D	A	B	C	D	A	B	C	D	A	B	C	D
Window Height	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-86.2	+70/-90	+70/-90	+70/-79.2	+70/-90	+70/-79.5	+/-63.7	+70/-76.3	+70/-90	+/-68.9	+/-55.2	+/-66	+70/-90	+/-61	+/-48.9	+/-58.5	+70/-90
	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/-88.1	+70/-90	+70/-90	+70/-90	+70/-76.3	+70/-90	+70/-90	+70/-90	+/-67.5	+70/-86.6	+70/-90	+70/-90
	39"	+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/-71	+70/-90	+70/-90	+70/-90	+/-62.9	+70/-72	+70/-86.2	+70/-90
	50-5/8"	+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								
	60"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+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												
	67"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90															
	72"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90																		
	76"	+70/-90	+70/-90	+70/-90	+70/-90																			
84"	+70/-90	+70/-90	+70/-90																					



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEETS 2 OR 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

NOTES:
1) SEE SHEET 1 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
2) TIP-TO-TIP DIMENSIONS SHOWN. SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE BUCK SIZE.



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PGT[®] WINDOWS and DOORS
3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296

09/09/26

By JENS ROSOWSKI

ALUM. AWNING WINDOW

DESIGN PRESSURES PER GLAZING TYPES

AW640

11 OF 14

Sheet

AW640-NI-HVHZ

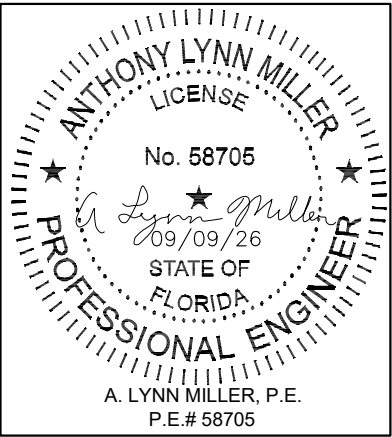
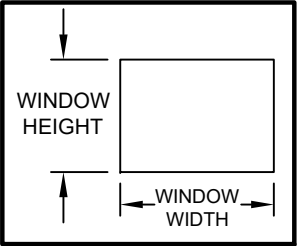


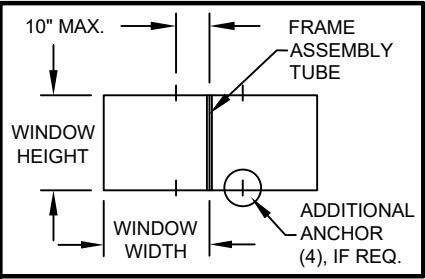
TABLE 19:

Design Pressure (psf) for Single Windows, All Anchor Groups										
	Window Width									
	under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"	37"	46"	53-1/8"	60"
Window Height	under 23"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-149.5	+90/-137.4	+90/-131.5	+90/-127.5
	25-15/16"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-147.7	+90/-140.6	+90/-127.2	+90/-120.8	+90/-116.5
	39"	+90/-146.1	+90/-136.9	+90/-132.3	+90/-127.2	+90/-125.5	+90/-123.5	+90/-121.8	+82/-105.5	+74.7/-96
	50-5/8"	+90/-133.3	+90/-122.8	+90/-117.3	+86.1/-110.7	+84.2/-108.3	+81.6/-104.9	+78.5/-100.9	+73.4/-94.4	
	60"	+90/-127.5	+90/-116.5	+86.1/-110.8	+80.6/-103.6	+78.5/-101	+75.6/-97.2	+72/-92.6		
	63"	+90/-126.1	+89.5/-115	+84.9/-109.2	+79.3/-101.9	+77.2/-99.2	+74.2/-94.2	+70.5/-90.7		
	67"	+90/-124.4	+88.1/-113.3	+83.5/-107.4	+77.8/-99	+75.7/-93.4	+72.6/-88.1			
	72"	+90/-122.6	+86.7/-111.4	+82/-105.4	+76.2/-93.2	+74/-87.9				
	76"	+90/-121.4	+85.7/-110.1	+81/-104.1	+75.1/-90					
	84"	+90/-119.4	+84/-108	+79.3/-102						



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

FOR GLASS TYPE:
9) 7/8" IG: (3/16" An - 1/2" Air - 3/16" An)
FOR FRAME TYPES:
Flange & Integral Fin



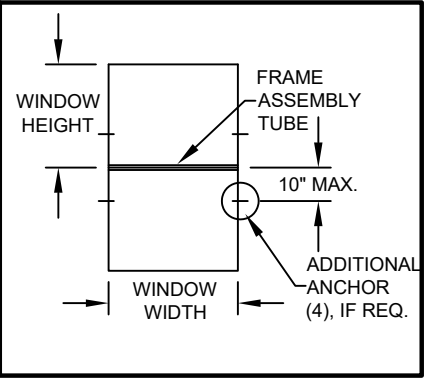
SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEETS 2 OR 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

TABLE 20:

		Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube																											
		Window Width																											
		under 23"				25-15/16"			27-7/8"			30-3/4"		32"		34"		37"			46"			53-1/8"			60"		
		Anchor Group				Anchor Group			Anchor Group			Anchor Group		Anchor Group		Anchor Group		Anchor Group			Anchor Group			Anchor Group			Anchor Group		
		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	A	B	C, D & E	A	B	C, D & E	A	B, C, D & E	A	B, C, D & E		
Window Height	under 23"	+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	+70/-90	+70/-90	+70/-90		
	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/-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		
	39"	+70/-90	+70/-75.2	+70/-89.9	+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/-87.4	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-81.2	+70/-90	+70/-89.8	+70/-90	
	50-5/8"	+70/-72.3	+/-57.9	+/-69.3	+70/-90	+/-64	+70/-90	+70/-90	+70/-89.4	+70/-90	+70/-90	+70/-81	+70/-90	+70/-77.9	+70/-90	+70/-73.3	+70/-90	+/-67.3	+70/-90	+70/-90	+70/-72.2	+70/-86.8	+70/-90						
	60"	+/-61	+/-48.9	+/-58.5	+70/-90	+/-54	+70/-86.6	+70/-90	+/-50.3	+70/-80.6	+70/-90	+/-68.4	+70/-90	+/-65.7	+70/-90	+/-61.8	+70/-90	+/-56.8	+70/-90	+70/-90									
	63"	+/-58.1	+/-46.5	+/-55.7	+70/-88.7	+/-51.5	+70/-82.5	+70/-90	+/-47.9	+70/-76.8	+70/-90	+/-65.1	+70/-90	+/-62.6	+70/-90	+/-58.9	+70/-90	+/-54.1	+70/-86.6	+70/-90									

TABLE 21:

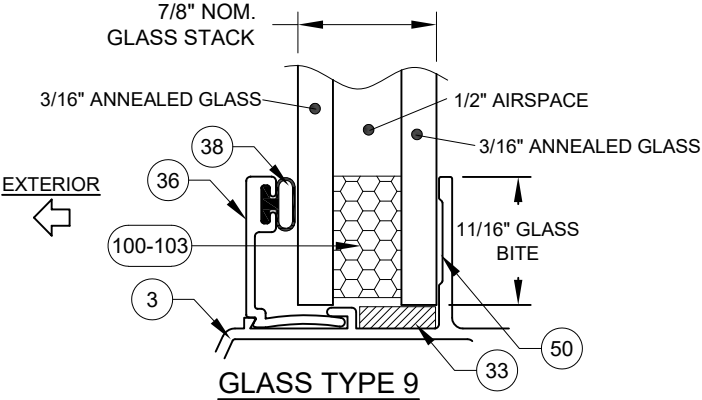
		Design Pressure (psf) for Windows Attached to a Horizontal Frame Assembly Tube																							
		Window Width																							
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"			37"			46"				53-1/8"				60"				
		Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group			Anchor Group			Anchor Group				Anchor Group				Anchor Group				
		All	All	All	All	All	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 Height	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-86.2	+70/-90	+70/-90	+70/-79.2	+70/-90	+70/-79.5	+/-63.7	+70/-76.3	+70/-90	+/-68.9	+/-55.2	+/-66	+70/-90	+/-61	+/-48.9	+/-58.5	+70/-90	
	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/-70.5	+70/-90	+70/-90	+70/-90	+/-61	+70/-90	+70/-90	+70/-90	+/-54	+70/-86.6	+70/-90	+70/-90	
	39"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-70.3	+70/-90	+70/-89.9	+70/-90	+/-60.9	+70/-81.3	+70/-77.8	+70/-90	+/-53.9	+/-57.6	+/-68.9	+70/-90	
	50-5/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-89.8	+70/-90	+70/-90	+70/-72.2	+70/-86.8	+70/-90	+70/-90									
	60"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-85.2	+70/-90	+70/-90													
	63"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-88.3	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90													
	67"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-88.1	+70/-88.1	+70/-88.1																
	72"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.9																		
	76"	+70/-90	+70/-90	+70/-90	+70/-90																				
	84"	+70/-90	+70/-90	+70/-90																					



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEETS 2 OR 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

! POSITIVE PRESSURE LIMITED TO +70 PSF FOR INTEGRAL FIN FRAMES ONLY

NOTES:
1) SEE SHEET 1 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
2) TIP-TO-TIP DIMENSIONS SHOWN. SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE BUCK SIZE.



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REGISTRATION #29296

ALUM. AWNING WINDOW

DESIGN PRESSURES PER
GLAZING TYPES

AW640

09/09/26

JENS ROSOWSKI

12 OF 14

AW640-NI-HVHZ

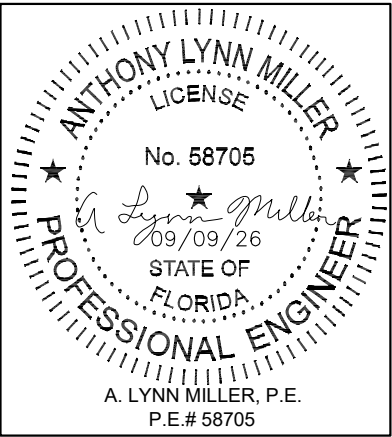
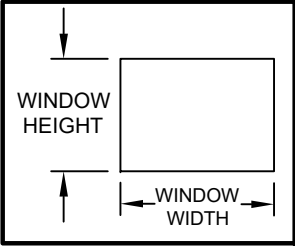


TABLE 22:

Design Pressure (psf) for Single Windows, All Anchor Groups										
	Window Width									
	under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"	37"	46"	53-1/8"	60"
	under 23"	+70/-150	+70/-150	+70/-150	+70/-150	+70/-150	+70/-149.5	+70/-137.4	+70/-131.5	+70/-127.5
Window Height	25-15/16"	+70/-150	+70/-150	+70/-150	+70/-150	+70/-150	+70/-147.7	+70/-140.6	+70/-127.2	+70/-116.5
	39"	+70/-146.1	+70/-136.9	+70/-132.3	+70/-127.2	+70/-125.5	+70/-123.5	+70/-121.8	+70/-105.5	+70/-96
	50-5/8"	+70/-133.3	+70/-122.8	+70/-117.3	+70/-110.7	+70/-108.3	+70/-104.9	+70/-100.9	+70/-94.4	
	60"	+70/-127.5	+70/-116.5	+70/-110.8	+70/-103.6	+70/-101	+70/-97.2	+70/-92.6		
	63"	+70/-126.1	+70/-115	+70/-109.2	+70/-101.9	+70/-99.2	+70/-95.4	+70/-90.7		
	67"	+70/-124.4	+70/-113.3	+70/-107.4	+70/-100	+70/-97.3	+70/-93.4			
	72"	+70/-122.6	+70/-111.4	+70/-105.4	+70/-98	+70/-95.2				
	76"	+70/-121.4	+70/-110.1	+70/-104.1	+70/-96.6					
	84"	+70/-119.4	+70/-108	+70/-101.2						



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

FOR GLASS TYPES:

- 2) 1/8" Tempered
4) 3/16" Tempered
6) 1/4" Tempered
8) 9/16" IG: (1/8" T - 5/16" Air - 1/8" T)
10) 7/8" IG: (3/16" T - 1/2" Air - 3/16" T)

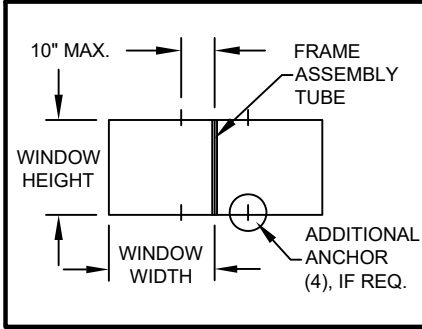
FOR FRAME TYPES:

Integral Fin Only

- NOTES:
1) SEE SHEET 1 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
2) TIP-TO-TIP DIMENSIONS SHOWN. SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE BUCK SIZE.

TABLE 23:

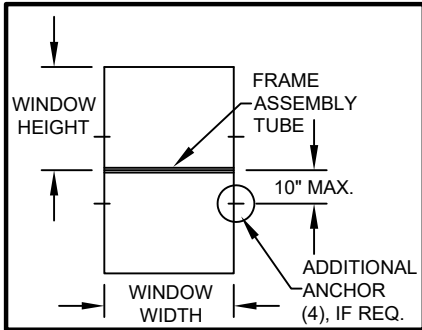
Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube										
	Window Width									
	under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"	37"	46"	53-1/8"	60"
	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group
Window Height	E	E	E	E	E	E	E	E	E	E
	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	39"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	50-5/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90		
	60"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90			
	63"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90			



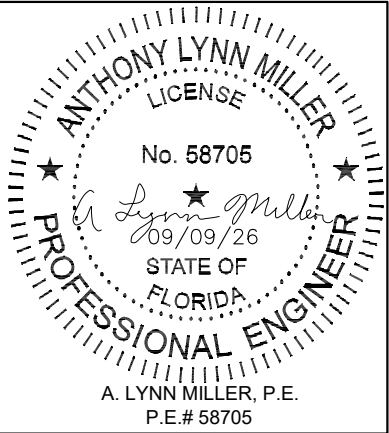
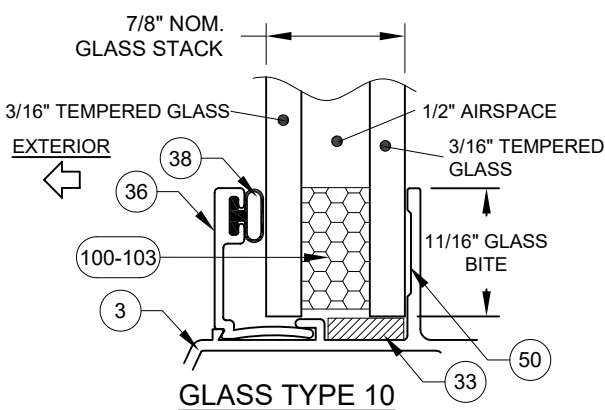
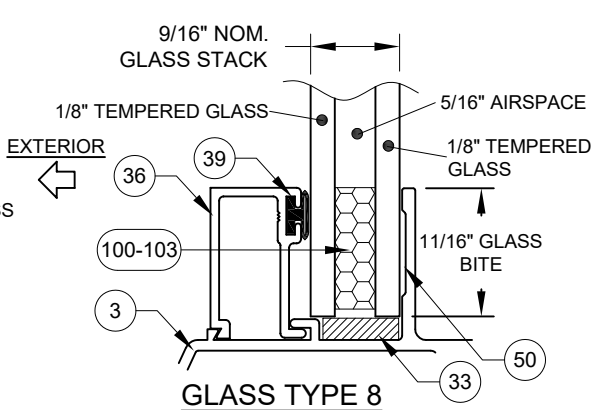
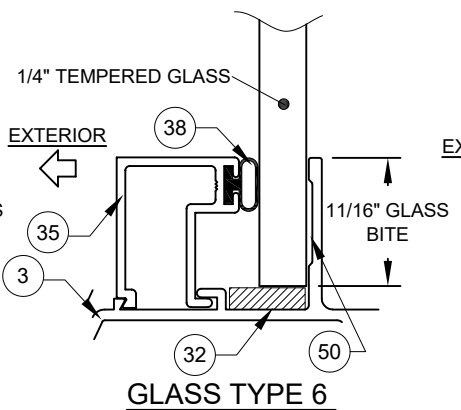
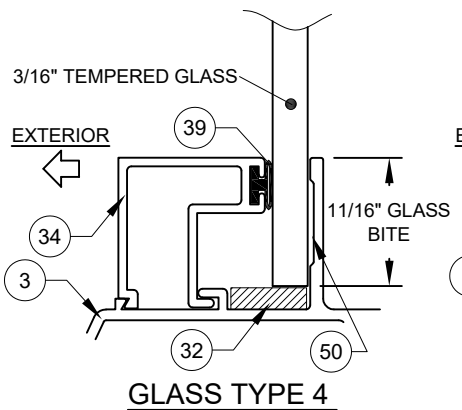
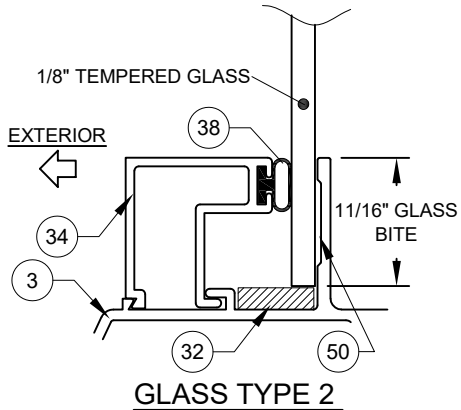
SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEETS 2 OR 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

TABLE 24:

Design Pressure (psf) for Windows Attached to a Horizontal Frame Assembly Tube										
	Window Width									
	under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"	37"	46"	53-1/8"	60"
	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group
Window Height	E	E	E	E	E	E	E	E	E	E
	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	39"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	50-5/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90		
	60"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90			
	63"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90			
	67"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90				
	72"	+70/-90	+70/-90	+70/-90	+70/-90					
	76"	+70/-90	+70/-90	+70/-90						
	84"	+70/-90	+70/-90	+70/-90						



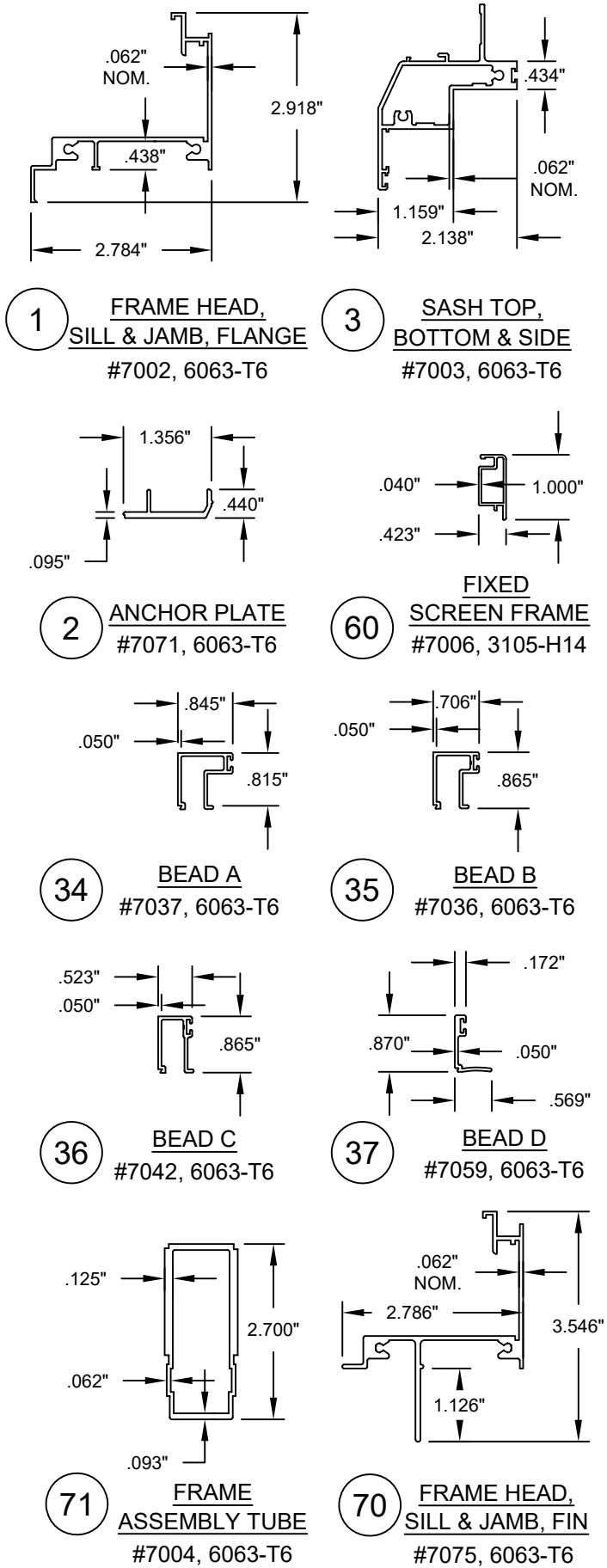
SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEETS 2 OR 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.



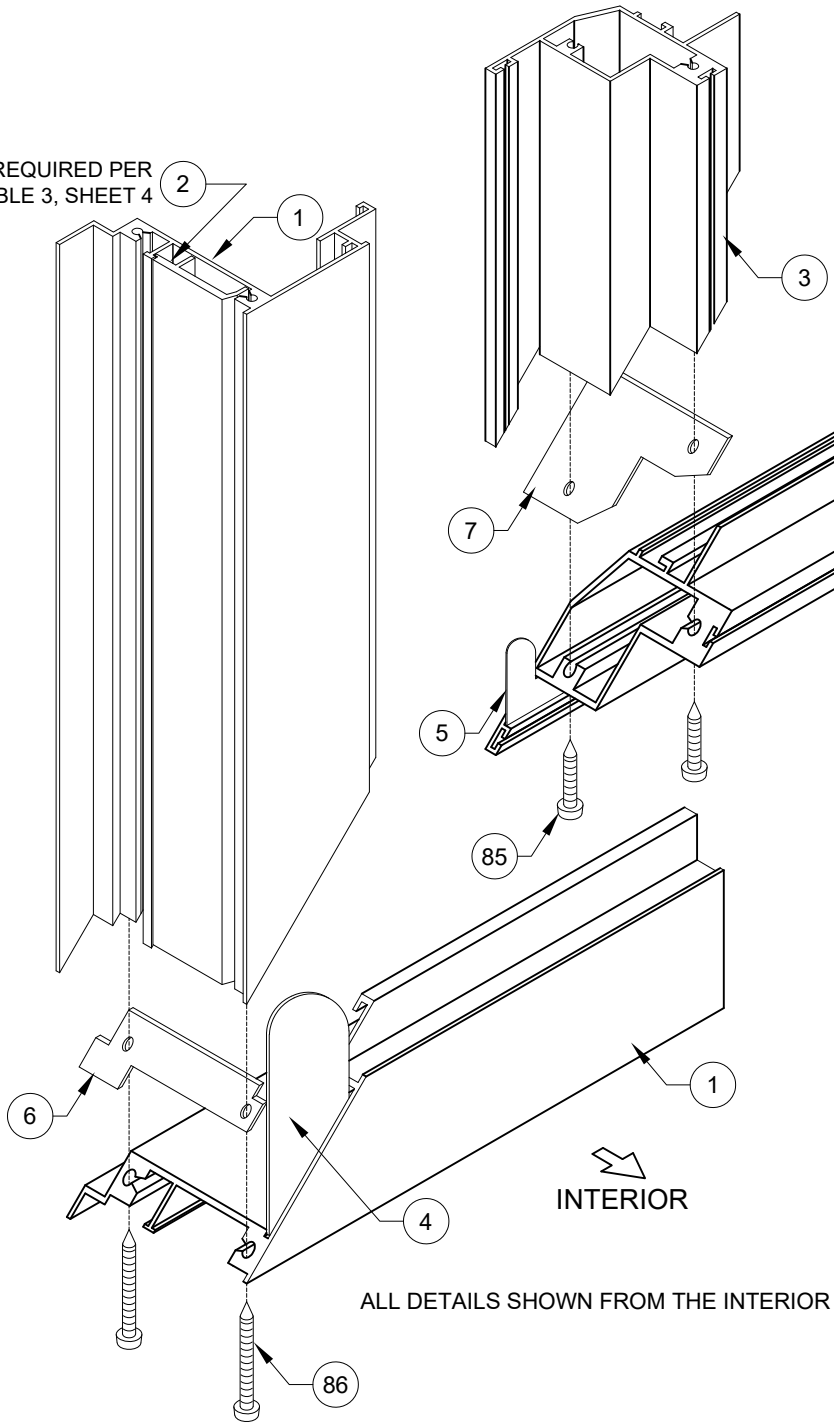
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DESIGN PRESSURES PER GLAZING TYPES		JENS ROSOWSKI		By	
AW640		13 OF 14		DWG No.	
AW640-NI-HVHZ		AW640		Sheet	

TABLE 25:

Item	Dwg. #	Description	Mat.
1	7002	Main Frame Head, Sill & Jamb, Flange	6063-T6 Alum.
2	7071	Anchor Plate	6063-T6 Alum.
3	7003	Sash Top, Bottom & Side Rail	6063-T6 Alum.
4	7008	Frame Corner Key	Steel
5	7009	Sash Corner Key	Steel
6	7078	Frame Gasket	Vinyl Foam
7	7072	Sash Corner Gasket	Vinyl Foam
8	7070	Bulb Weatherstrip .187" x .275"	Flex PVC 70
10	7024	Maxim Multi-Point Lock	Steel
11	7026	Lock Support Plate	Steel
12	7014	Multi-Lock Keeper	Steel
13	7013	Tie Bar Guide	Nylon
14	7015	Tie Bar Assembly	Steel or SS
16	7029	Maxim Projected Operator	Steel
17	7030	Operator Gasket	Vinyl Foam
18	7031	Operator Backing Plate	Steel
19	7051	Operator Spacer Block	Nylon
21	7034	Operator Track & Slider	Steel
22	7023	Projected Hinge, Manuf. by Truth	Steel
32	1713	Setting Block 5/32" x 3/16" x 1-1/4"	EPDM
33	1714	Setting Block 5/32" x 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	7059	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 Backbedding	Silicone
60	7006	Screen Frame	3105-H14 Alum.
61	7040	Screen Corner Key	Polypropolene
62		Screen Cloth	Fiberglass
63	1635	Screen Spline	EM. PVC
64	320	Casement Screen Spring	Stainless Steel
70	7075	Main Frame Head, Sill & Jamb, Fin	6063-T6 Alum.
71	7004	Frame Assy Tube	6063-T6 Alum.
72		Maxim Pivot Slider Assembly	Steel
80		#8-32 x 1/2" Ph. Pn. Mach. Scr TYPE B	Stainless Steel
81	1157	#8 x 1/2" Ph. Pn. SMS	Stainless Steel
82		#8 x 5/8" Fl. Ph. SMS	Stainless Steel
83		#8 x 7/8" F.H. Ph. SMS	Stainless Steel
84		#8 x 1" Fl. Ph. TEK	Stainless Steel
85		#8 x 1" Quad Pn SMS	Stainless Steel
86		#8 X 1-1/2" Quad Pn SMS	Stainless Steel
87		#10 x 1/2" Ph. Pn./ TEK	Stainless Steel
89		#10-24 x 9/16" Ph. Pn. TYPE F	Stainless Steel
90		#12 x 1" Ph. Pn. TEK	Stainless Steel



AS REQUIRED PER
TABLE 3, SHEET 4



PREPARED BY A LYNN MILLER
3400 PRECISION DRIVE
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(941) 480-1600

PGT WINDOWS and DOORS
3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296

Date 09/09/26

By

ALUM. AWNING WINDOW

BOM. EXTRUSIONS & CORNER VIEW

Date 09/09/26

By

JENS ROSOWSKI

AW640-NI-HVHZ

DWG No.

14 OF 14

Sheet

AW640

Series

Desc. Title

