Engineering Evaluation Report #740-04102026

Prepared by:
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Manufacturer:
PGT Custom Windows & Doors
3400 Precision Dr.
N. Venice, FL 34275

Product Description:
CA740 Impact-resistant Aluminum Casement Window, (LM), FL330

Compliance:
The above-mentioned product has been evaluated for compliance with the requirements of the Florida Department of Business and Professional Regulation for Statewide Acceptance per Rule 61 G20-3.005 method 1(d). The product listed herein complies with the requirements of the current Florida Building Code.

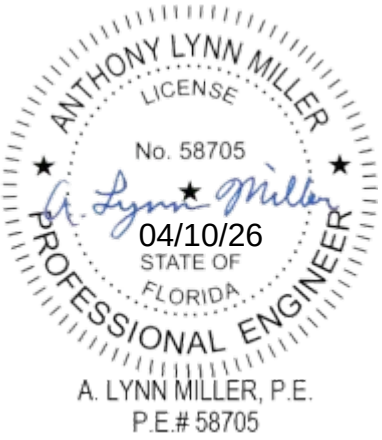
This product has been evaluated and is in compliance with the current Florida Building Code, including the “High Velocity Hurricane Zone” (HVHZ).

Supporting Technical Documentation:
1. Approval document: drawing number CA740-FPA-IR, signed and sealed by A. Lynn Miller, P.E.
2. Test Reports - FTL 7065, 3579, 3580, 3724, signed and sealed by Joseph Chan, P.E.
Fenestration Testing Laboratories, Nokomis, FL 34275
NOK-0156, signed and sealed by Idalmis Ortega, P.E.
QAI Laboratories, North Venice, FL 34275

TAS 201-94 Large Missile Impact Test
TAS 202-94 Uniform Static Air Pressure Test
TAS 203-94 Cyclic Pressure Loading Test

3. Anchor calculations, signed and sealed by A. Lynn Miller, P.E., dated 04/03/26.

Limitations and Conditions of use:
• Units must be glazed per ASTM E1300-09, refer to approval document for glazing details.
• This product is rated to be used in the HVHZ.
• This product is impact resistant and does not require impact protection in wind borne debris regions.
• Frame and panel material to be extruded Aluminum.
• Units must be installed in accordance with approval document, CA740-FPA-IR.



GENERAL NOTES: SERIES 710 IMPACT RESISTANT CASEMENT WINDOW

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE latest PRODUCT APPROVAL AND [illegible] ZONE (HVHZ).

2) SPACERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS. FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, THE OUTBOARD LITE SHALL BE HEAT TEMPERED.

3) MATERIALS USED FOR ANCHOR EVALUATION MUST BE FOR FINAL AUTH ON CONCRETE, MASONRY, WOOD AND CONCRETE WITH MIN. 3000 PSI MINIMUM STRENGTH.

4) ALL WOOD BUCK LESS THAN 1 1/2" THICK ARE TO BE CONSIDERED IN INSTALLATIONS. 10 WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 1x4 ARE 1-1/2" THICK OR GREATER. 10 WOOD SCREW ANCHORS SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

5) MAXIMUM SHIM SPACE TO BASE MATERIAL SHALL BE BEYOND WALL CROSSING OR EXCEED 1/4". USE WASHERS OF SUFFICIENT DIMENSION AS SPECIFIED ON TABLE 2, SHEET 3. OVERALL FENESTRATION PERFORMANCE CAN VARY DEPENDING ON SHIM SPACE. INSTALLATION SHALL BE USING BOTH SHIMS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

6) 1/4" [illegible] SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS SHIT TO CONFORM TO THE SUBSTRATE. FOR MATERIALS THAT PRIMER INSTALL SHIMS AT MAX. 1/8" O.C. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.

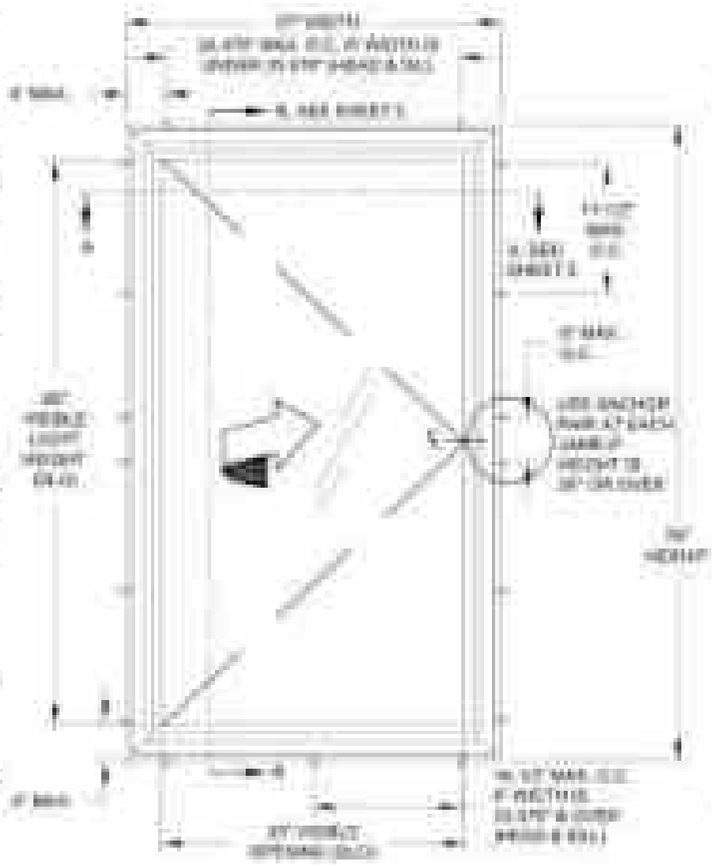
7) DESIGN PRESSURES:
A NEGATIVE DESIGN LOADS BASED ON STRUCTURAL ULTIMATE TEST PRESSURE. FRAME AND TIPS SHE GLASS PER SCHEDULE.
B POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE. STRUCTURAL CYCLE TEST PRESSURE. FRAME, ANCHORS AND GLASS PER SCHEDULE.
C DESIGN LOADS ARE BASED ON ALL OPERABLE STYLES DESIGNS, AND

8) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE PRESSURES CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE ULTIMATE STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR HAS BEEN USED FOR THE EVALUATION OF WOOD AND WOOD ANCHORS THAT COME INTO CONTACT WITH OTHER ASSEMBLER MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

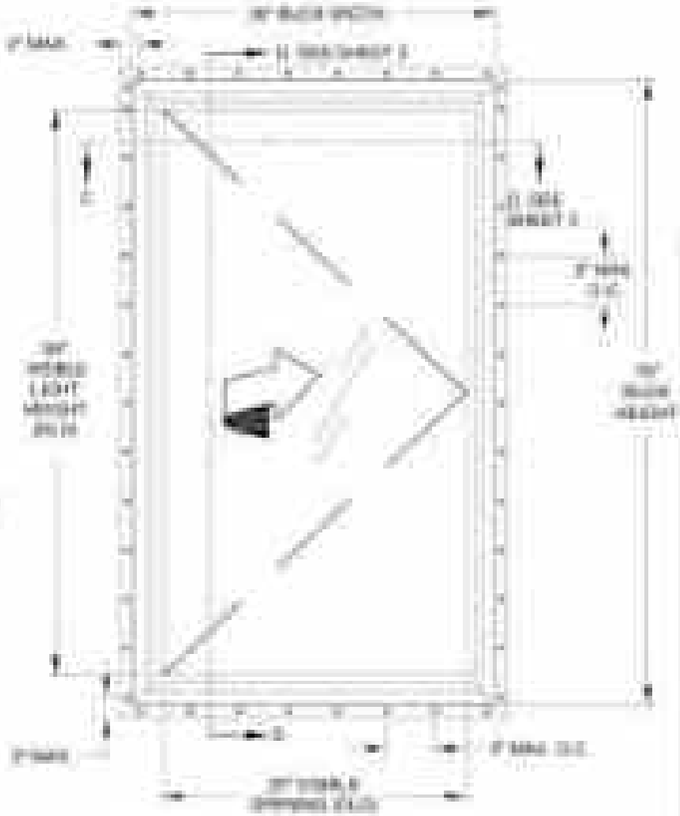
9) METAL ELEMENTS TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE.

10) REFER TO CURRENT FLORIDA RESIDENTIAL CODE FOR APPLICABLE EXPOSURE RELATED PARAMETERS.

DESIGN PRESSURE (DETAIL)	IMPACT RATING
VARIES (SEE SHEET 2 & 3)	RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE



TYP. FLANGE FRAME ELEVATION



TYP. FIN FRAME ELEVATION

TABLE 1

	Glass Types	Sheet #
1	[illegible]	2
2	[illegible]	2
3	[illegible]	2
4	[illegible]	2
5	[illegible]	2
6	[illegible]	2
7	[illegible]	2
8	[illegible]	2
9	[illegible]	2
10	[illegible]	2

TYP = TROPICAL PVB BY KURARAY AMERICA INC.
SGP = SENTRYGLAS® BY KURARAY AMERICA INC.

GENERAL NOTES 1
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EXTRUSIONS 11

PGT. PGT INDUSTRIES 1070 TECHNOLOGY DRIVE NORTH VENICE, FL 34275 (941) 480-1600

ALUM. CASEMENT WINDOW (MIN. SIZE)
CERTIFIED SERIES 710 FIXED CASEMENT
ELEVATION

CA1040

1 OF 12

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REGISTERED ARCHITECT No. 36705 STATE OF FLORIDA PROFESSIONAL ENGINEER

INSTALLATION OPTION 1

INSTALLATION OPTION 2

INSTALLATION OPTION 4

HORIZONTAL SECTION A-A

VERTICAL SECTION B-B

INSTALLATION OPTION 3

Additional Anchors Required on each Side of the Frame Assembly (Qty.)				
Min. Wall Thickness	Window Width	Anchor Type		
		A	B, C & D	E
4"	13" - 23.9"	1	0	0
	24"+	1	1	0
6"	Window Height	Anchor Type		
		A	B, C & D	E
	13" - 23.9"	1	0	0
	24"+	1	1	0

PGT

ALUM CASEMENT WINDOW (AWC)

CROSS SECTION & PART

CAS-A-PW-LW

DRAWN BY

CHKD

DATE

SCALE

SHEET

OF

INSTALLATION OPTION 2

INSTALLATION OPTION 3

INSTALLATION OPTION 1

HORIZONTAL SECTION C-C

VERTICAL SECTION D-D

INSTALLATION OPTIONS

CLIPPED TUBE MULLION DETAILS:

FRAME ASSEMBLY TUBE (FAT) DETAILS:

PGT

ALUM CASEMENT WINDOW (LW)

FIN INSTALL DETAILS

LOGAN HODGE

CA10

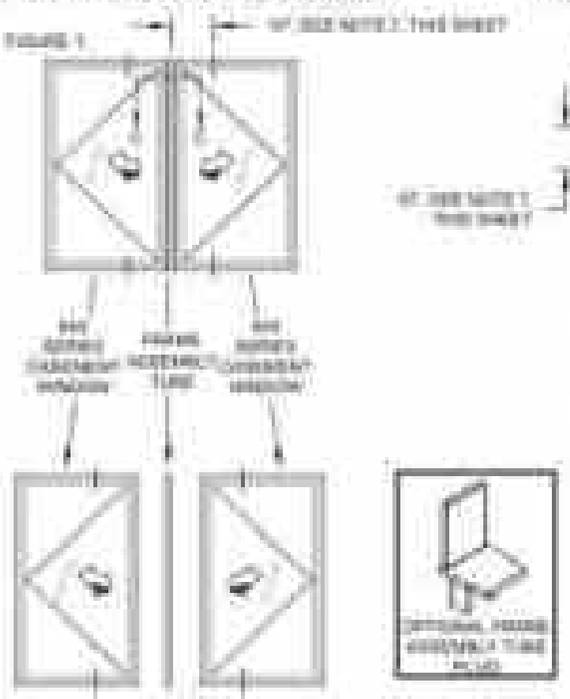
CA10-FIN-LW

CASEMENT (X)

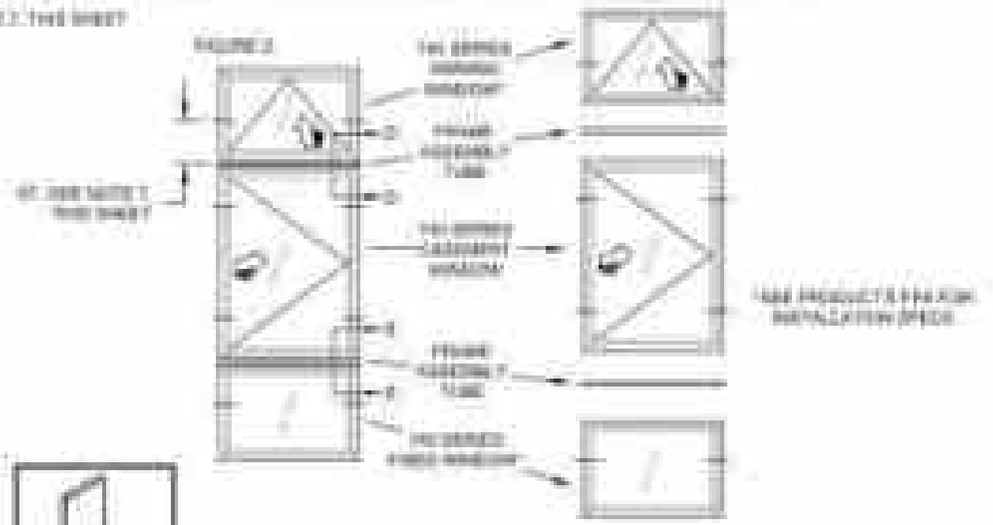




CASEMENT / CASEMENT (XX)



AWNING / CASEMENT / FIXED CASEMENT (XXO)





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 1A ON SHEET 3

2) FROM SHEETS 9 -10, FIND THE SHEET FOR YOUR GLASS AND FRAME TYPE

3) FIND THE DESIGN PRESSURE FROM THE TABLE 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" OR FINDING ON WHICH WAY THE FRAME ASSEMBLY TUBE IS ORIENTATED. THIS MUST BE DONE FOR EACH WINDOW IN THE ASSEMBLY AND THE LOWEST DESIGN PRESSURE APPLIED TO THE ENTIRE ASSEMBLY. DIMENSIONS SHOWN ARE "UP-TO-TOP" 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 9), 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 PER TABLE 7D ON THIS SHEET, AND THAT MIN. #10 X 1" SMS SCREWS ARE TO BE USED THROUGH THE FRAME INTO THE FRAME ASSEMBLY TUBE (SEE DETAILS ON THIS SHEET)

FOR SINGLE UNITS:

1) DETERMINE YOUR WINDOW SIZE AND GLASS

2) KNOWING YOUR WINDOW TYPE AND HURRICANE ZONE, DETERMINE YOUR DESIGN GROUP FROM TABLE 1A OR 1B, SHEET 3

3) FROM SHEETS 9 -10, FIND THE SHEET FOR YOUR GLASS AND FRAME TYPE. FIND THE DESIGN PRESSURE FROM THE TABLES LABELED "DESIGN PRESSURE (PSF) FOR SINGLE WINDOWS ALL ANCHOR GROUPS"

4) DIMENSIONS SHOWN ARE UP-TO-TOP. 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 9), DETERMINE THE NUMBER OF ANCHORS NEEDED IN THE HEAD, SILL AND JAMBS OF YOUR WINDOW

6) INSTALL AS PER THE INSTRUCTIONS ON SHEETS 2-4

FRAME ASSEMBLY TUBE NOTES:

1) DIMENSIONS SHOWN ARE UP-TO-TOP 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 TWO INDIVIDUAL PRODUCT CASEMENT, AWNING OR FIXED CASEMENT MAY BE ATTACHED TO THE FRAME ASSEMBLY TUBE. FOR ALL WINDOWS, USE THE WINDOW'S PSF FOR ANCHORAGE, SIZE AND DESIGN PRESSURE LIMITATIONS

3) ALL WINDOWS IN THE COMBINATION UNIT MUST BE ABLE TO INDIVIDUALLY COMPLY WITH THE REQUIREMENTS OF TABLE 7D RESPECTIVELY

4) FRAME ASSEMBLY TUBE TO BE FASTENED TO WINDOW AS SHOWN IN DETAILS WITHIN #13 & 17 SHEET. METAL SCREWS FOR FLANGE FRAME AND THE SAME SPACING AND QUANTITY AS THE WINDOW'S FRAME SHOWN FOR MULLION, PA FRAME COMBINATION UNITS. FLANGE FRAME IS USED AT THE FRAME ASSEMBLY TUBE WITH MOVING (SASH) SYSTEMS

5) THE FRAME ASSEMBLY TUBE MAY NOT EXCEED 40" IN LENGTH AND USED IN A 40" FLANGE WINDOW OR BE USED IN THE DETACHED CONFIGURATION

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 ANGLED FRAMES AT 12" MAX. FROM EACH SIDE OF THE FRAME ASSEMBLY TUBE (CENTERLINE). SEE TABLE BELOW. NO ADDITIONAL MULLIONS REQUIRED FOR FLANGE COMBINATION UNITS

Additional Anchors Required on each Side of the Frame Assembly Tube (Ea.)				
Vertical Mull	Window Height	Anchor Type		
		A	B, C & D	E
	0"-36.0"	0	0	0
	36.1"-60"	1	1	0
	60"+	1	1	0
Horiz. Mull	Window Height	Anchor Type		
		A	B, C & D	E
	0"-36.0"	1	0	0
	36"+	1	1	0

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ALUM. CASEMENT WINDOW (AWS)
FRAME ASSEMBLY TUBE
DETAILS

CASE

DRAWN BY: LOGAN YODER
DATE:
SCALE:
REVISIONS

STATE OF FLORIDA
PROFESSIONAL ENGINEER

TABLE 2

Window Anchors Required

Design Pressure (+/-)	Anchor Group	Anchor Type	Window Width (in.) Under 21"				21" to 30"				31" to 40"				41" to 50"				51" to 60"				61" to 70"				71" to 80"			
			Anchor Spacing				Anchor Spacing				Anchor Spacing				Anchor Spacing				Anchor Spacing				Anchor Spacing				Anchor Spacing			
			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
+15.0 psf / -15.0 psf	A	Jamb	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0
		Head/Sill	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0
+20.0 psf / -20.0 psf	A	Jamb	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0
		Head/Sill	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0
+25.0 psf / -25.0 psf	A	Jamb	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0
		Head/Sill	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0
+30.0 psf / -30.0 psf	A	Jamb	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0
		Head/Sill	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0
+35.0 psf / -35.0 psf	A	Jamb	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0
		Head/Sill	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0
+40.0 psf / -40.0 psf	A	Jamb	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0
		Head/Sill	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0
+45.0 psf / -45.0 psf	A	Jamb	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0
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+50.0 psf / -50.0 psf	A	Jamb	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0
		Head/Sill	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0
+55.0 psf / -55.0 psf	A	Jamb	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0
		Head/Sill	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0
+60.0 psf / -60.0 psf	A	Jamb	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0
		Head/Sill	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0

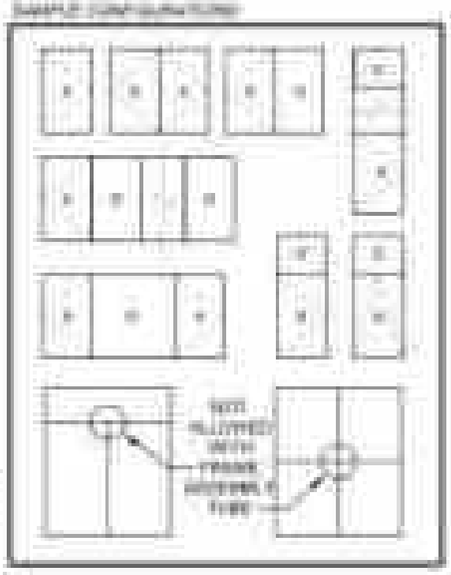
TABLE 3

Jamb Shudder Locations

Design Pressure	Glass Type: PVB (Types 1, 2, 4 & 5)	Glass Type: SG (Types 2, 3 & 6 thru 9)
+50.0 psf and less	None Required	72" max. from each end & 36" max. O.C.
+55.0 psf	72" max. from each end & 36" max. O.C.	72" max. from each end & 36" max. O.C.

"PGT" VALIDATED BY PGT INDUSTRIES, INC.
"TECH" VALIDATED BY TECH LAMINATED, INC.

SAMPLE CONFIGURATIONS



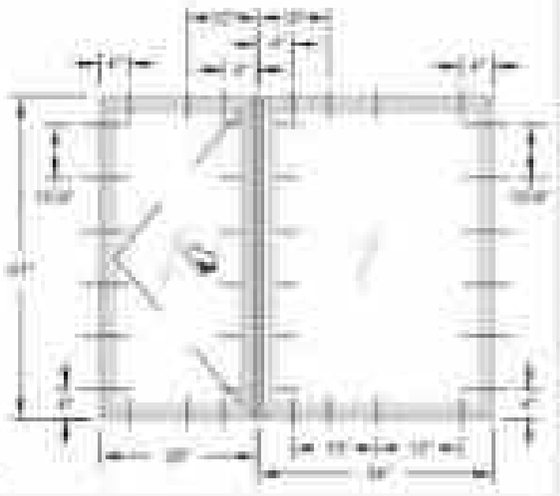


TABLE 1A - THROUGH FRAME ANCHORS

Group	Anchor	Substrate	Min. Edge Distance	Min. C.C. Spacing	Min. Embedment	Screw Pilot Required
A	#8 x (varies) SMS (304 or 316 stainless steel) or #10 x (varies) SMS (304 or 316 stainless steel)	Wood	3/4"	6"	1-1/4"	No
		Aluminum 6063-T5 or T6	3/4"	6"	1"	No
		Steel, 33 ksi min.	3/4"	6"	1"	No
		Steel, 50 ksi min.	3/4"	6"	1"	No
	1-1/4" Head Retainer	Wood	3/4"	6"	1-1/4"	No
		Aluminum 6063-T5 or T6	3/4"	6"	1-1/4"	No
		Steel, 33 ksi min.	3/4"	6"	1-1/4"	No
		Steel, 50 ksi min.	3/4"	6"	1-1/4"	No
B	1/4" Wood Retainer	Wood	3/4"	6"	1-1/4"	No
		Aluminum 6063-T5 or T6	3/4"	6"	1-1/4"	No
		Steel, 33 ksi min.	3/4"	6"	1-1/4"	No
		Steel, 50 ksi min.	3/4"	6"	1-1/4"	No
C	1-1/4" Wood Retainer	Wood	3/4"	6"	1-1/4"	No
		Aluminum 6063-T5 or T6	3/4"	6"	1-1/4"	No
		Steel, 33 ksi min.	3/4"	6"	1-1/4"	No
		Steel, 50 ksi min.	3/4"	6"	1-1/4"	No
D	#8 x (varies) SMS (304 or 316 stainless steel) or #10 x (varies) SMS (304 or 316 stainless steel)	Wood	3/4"	6"	1-1/4"	No
		Aluminum 6063-T5 or T6	3/4"	6"	1"	No
		Steel, 33 ksi min.	3/4"	6"	1"	No
		Steel, 50 ksi min.	3/4"	6"	1"	No
	1-1/4" Wood Retainer	Wood	3/4"	6"	1-1/4"	No
		Aluminum 6063-T5 or T6	3/4"	6"	1-1/4"	No
		Steel, 33 ksi min.	3/4"	6"	1-1/4"	No
		Steel, 50 ksi min.	3/4"	6"	1-1/4"	No
	1-1/4" Wood Retainer	Wood	3/4"	6"	1-1/4"	No
		Aluminum 6063-T5 or T6	3/4"	6"	1-1/4"	No
		Steel, 33 ksi min.	3/4"	6"	1-1/4"	No
		Steel, 50 ksi min.	3/4"	6"	1-1/4"	No

TABLE 1B - THROUGH FRAME ANCHORS

Group	Anchor	Substrate	Min. Edge Distance	Min. C.C. Spacing	Min. Embedment
A	#12 x (varies) SMS (304 or 316 stainless steel)	Aluminum 6063-T5 or T6	3/4"	6"	1-1/4"
	1/4"-20 x (varies) Machine Screw	Aluminum 6063-T5 or T6	3/4"	6"	1-1/4"
	1/4"-20 x (varies) Self-Tapping Screw	Aluminum 6063-T5 or T6	3/4"	6"	1-1/4"
	#12 x (varies) Wood Screw	Wood	3/4"	6"	1-1/4"
		Steel, 33 ksi min.	3/4"	6"	1-1/4"
		Steel, 50 ksi min.	3/4"	6"	1-1/4"
		Steel, 65 ksi min.	3/4"	6"	1-1/4"

1) WHERE HOLE DISTANCES EXCEED MAXIMUMS FROM MORE THAN ONE OF THE ANCHOR GROUPS IN TABLE 1A, CHOOSE THE ANCHOR GROUP OF THE LOWEST LETTER FOR ALL SUBSEQUENT TABLES IN THIS APPROVAL.
2) ANCHOR MUST EXTEND A MIN. OF 1 THREAD BEYOND ANY METAL SUBSTRATE.
3) ALL ANCHOR HEAD TYPES ARE ACCEPTABLE.

EXAMPLE 1: FOR WINDOW COMBINATION SHOWN BELOW, FLANGE FRAME, 1" HEAT STRENGTHENED LAMINATED GLASS, 1/4" WASHERS, ANCHORS #12 X 2" SMS (PG 1 OF 2 REQUIRED).

CASEMENT ANCHORS:
A) FROM TABLE 1C, ANCHORS C & D ALLOW A DP OF +/-70.0#.

B) FOR THE JAMB, FROM TABLE 2A, ANCHOR TYPE D AND THE ANCHOR AND SUBSTRATE DESIGNS ARE GOOD, NOT REQUIRE THE ANCHOR PLATE IF USING THE CANTILEVER ANCHOR.

C) FROM TABLE 2, 4 ANCHORS ARE REQUIRED IN EACH JAMB.

D) DISPLACE 2 ANCHORS ARE REQUIRED IN THE HEAD & SILL.

E) DETERMINE ANCHOR PLACEMENT USING GUIDELINES FROM ELEVATION DRAWING NOTE 1.

F) PER RULES ON SHEETS 2 & 3, INSTALL 1 ADDITIONAL ANCHOR ON THE FRAME ASSEMBLY TUBE SIDE OF THE JAMB AND SILL.
FIXED CASEMENT ANCHORS:
A) FROM TABLE 1C & 1A, 3-#12 X 2" SMS FIXED CASEMENT ANCHOR HAS A DESIGN PRESSURE OF +/-50.0# USING ANCHORS C OR D.

B) FOR THE JAMB, FROM TABLE 2, ANCHOR TYPE D AND THE ANCHOR AND SUBSTRATE DESIGNS AND DOES NOT REQUIRE THE ANCHOR PLATE IF USING THE CANTILEVER ANCHOR.

C) FROM TABLE 2A, 4 ANCHORS ARE REQUIRED IN EACH JAMB.

D) DISPLACE 2 - 3 ANCHORS ARE REQUIRED IN THE HEAD & SILL.

E) DETERMINE ANCHOR PLACEMENT FOLLOWING GUIDELINES FROM ELEVATION DRAWING NOTE 1.

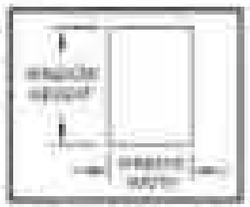
F) PER RULES ON SHEET 3, INSTALL 1 ADDITIONAL ANCHOR ON THE FRAME ASSEMBLY TUBE SIDE OF THE FIXED CASEMENT HEAD & SILL.

PGT
ALUM CASEMENT WINDOW (LM)
ANCHOR TYPE & QUANTITY
CA2.0
3 OF 3

WILLIAM VON BELOW
No. 38705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Table 3

	Design Pressure (psf) for Single Monoliner IM Anchor Groups						
	Window Height						
	Under 27"	35-15/16"	27-3/4"	36"	53-1/2"	59"	77"
Window Width							
Under 27"	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80
35-15/16"	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80
36-3/8"	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80
48"	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80
59-5/8"	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80
60"	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80
62"	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80
72"	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80
96"	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80



SEE SHEET 1 & 2 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES

FOR GLASS TYPES:
1) 5/16" LAMI (1/8 AN - .090" PVB – 1/8 AN)
4) 7/8" LAMI. IG. (1/8" AN - 7/16" AIR - 1/8" AN - .090" PVB – 1/8" AN)
FOR FRAME TYPES:
FLANGE & INTEGRAL FIN



Table 4

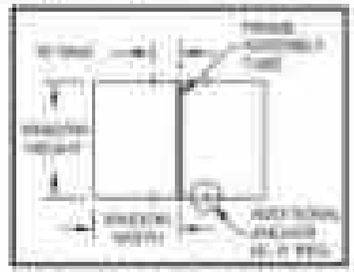
	Design Pressures (psf) for Window Attached to a Vertical Frame Assembly Tube																			
	Window Width																			
	Under 27"			35-15/16"			27-3/4"			36"			53-1/2"			59"		77"	
	Anchor Group			Anchor Group			Anchor Group			Anchor Group			Anchor Group			Anchor Group		Anchor Group	
Window Height	A	B	D	E & F	A	G	C, D & E	A	B	C, D & E	A	G	C, D & E	A	G	C, D & E	A	B, C, D & E	A	B, C, D & E
Under 27"	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80
35-15/16"	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80
36-3/8"	+70/-80	+70/-76.4	+70/-80	+70/-80	+70/-80.0	+70/-80	+70/-80	+70/-76	+70/-80	+70/-80	+70/-73	+70/-80	+70/-80	+70/-81.5	+70/-80	+70/-80	+70/-78.2	+70/-80	+70/-74	+70/-80
48"	+70/-76.2	+71/-1	+70/-72.1	+70/-80	+67.2	+70/-80	+70/-80	+67.1	+70/-80	+70/-80	+68.4	+70/-80	+70/-80	+65.4	+70/-80.8	+70/-80	+62.4	+70/-80	+59.2	+70/-80
59-5/8"	+64/-72.3	+67.9	+69.2	+70/-80	+64	+70/-80	+70/-80	+64.0	+70/-80	+70/-80	+63.8	+70/-80.1	+70/-80	+62	+70/-79.3	+70/-80	+59.3	+70/-80	+56.1	+70/-80.2
60"	+63	+68.0	+68.2	+70/-80	+64	+70/-80.8	+70/-80	+63.9	+70/-81	+70/-80	+63.7	+70/-74.3	+70/-80.1	+62.3	+67.1	+70/-80.3	+59.1	+70/-77.1	+47.4	+70/-79.3
62"	+66.1	+66.8	+68.7	+70/-80.7	+63.3	+70/-82.0	+70/-80	+66.1	+70/-77.1	+70/-80	+64.9	+70/-77.2	+70/-80.2	+65.8	+65.8	+70/-78.5	+67.7	+70/-72.7	+68.1	+70/-73.1



SEE SHEETS 1 & 2 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

Table 5

	Design Pressure (psf) for Window Attached to a Vertical Frame Assembly Tube																			
	Window Width																			
	Under 27"			35-15/16"			27-3/4"			36"			53-1/2"			59"		77"	
	Anchor Group			Anchor Group			Anchor Group			Anchor Group			Anchor Group			Anchor Group		Anchor Group	
Window Height	A	B	D	E & F	A	G	C, D & E	A	B	C, D & E	A	G	C, D & E	A	G	C, D & E	A	B, C, D & E	A	B, C, D & E
Under 27"	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80
35-15/16"	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80
36-3/8"	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80
48"	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80
59-5/8"	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80
60"	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80
62"	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80
72"	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80
96"	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80



SEE SHEETS 1 & 2 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 PANELS OVER 6 FEET IN HEIGHT.
2) SEE SHEET 2 FOR ANCHOR LOCATIONS.
3) FOR 72 OR OVERHEAD DOORS, FOR WALL THE WINDOW, INSTALL 1 FRAME TUBE TO 72 OR OVERHEAD OR THE TUBE TO CONTINUOUS THE WINDOW SIZE.

PGT INDUSTRIES
1070 TAMIAMI TRAIL NORTH
NOKOMIS, FLORIDA 34275

ALUM CASEMENT WINDOW (LW)
DESIGN PRESSURES (PSF)
GLAZING TYPES

DRAWING NO. CW-D-4
SHEET NO. 3 OF 4

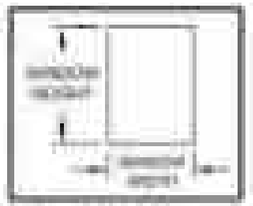
WESLEY VAN SOLEY
STATE OF FLORIDA
PROFESSIONAL ENGINEER

TABLE A

Design Pressure (psf) for Single Windows, All Aluminum Designs

Window Width

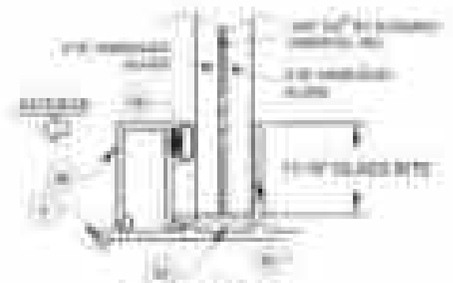
Height	23"	23 1/16"-35"	35 1/16"-47"	47 1/16"-59"	59 1/16"-71"	71 1/16"-83"	83 1/16"-95"
23"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
23 1/16"-35"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
35 1/16"-47"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
47"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
47 1/16"-59"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
59"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
59 1/16"-71"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
71"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
71 1/16"-83"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
83"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
83 1/16"-95"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
95"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50



SEE SHEETS 1 & 2 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

FOR GLASS TYPES:
2) 7/16" LAMI (3/16 AN - .090" SG - 3/16 AN)
FOR FRAME TYPES:
FLANGE ONLY

"SGX+ SENTRYGLAS" BY KURARAY AMERICA, INC.



GLASS TYPE 2
7/16" SGX+ SLAB LITE

TABLE B

Design Pressure (psf) for Windows Anchored to a Vertical Frame Assembly Tube

Window Width

Height	23"	23 1/16"-35"	35 1/16"-47"	47"	47 1/16"-59"	59"	59 1/16"-71"	71"	71 1/16"-83"	83"	83 1/16"-95"	95"
	A	A	A	A	A	A	A	A	A	A	A	A
23"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
23 1/16"-35"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
35 1/16"-47"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
47"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
47 1/16"-59"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
59"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
59 1/16"-71"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
71"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
71 1/16"-83"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
83"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
83 1/16"-95"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
95"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50



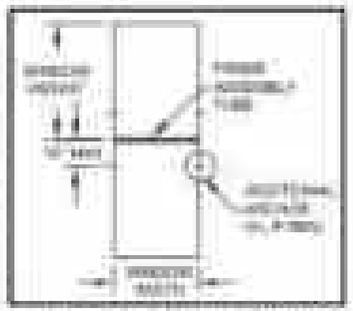
SEE SHEETS 1 & 2 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR UNIT ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

TABLE C

Design Pressure (psf) for Windows Anchored to a Horizontal Frame Assembly Tube

Window Width

Height	23"	23 1/16"-35"	35 1/16"-47"	47 1/16"-59"	59 1/16"-71"	71 1/16"-83"	83 1/16"-95"
	A	A	A	A	A	A	A
23"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
23 1/16"-35"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
35 1/16"-47"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
47"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
47 1/16"-59"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
59"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
59 1/16"-71"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
71"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
71 1/16"-83"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
83"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50



SEE SHEETS 1 & 2 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR UNIT ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

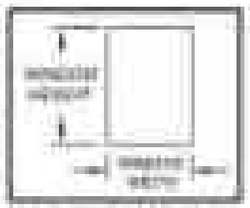
NOTES:

PGT
ALUM CASEMENT WINDOW (LW)
DESIGN PRESSURE TABLES
CA10

WESTLAKE VILLAGE
CALIFORNIA
No. 28705
STATE OF CALIFORNIA
PROFESSIONAL ENGINEER

TABLE 11

	Design Pressure (psf) for Single Arch Window (A) Anchor Straps						
	Window W=[illegible]						
	width 23"	35-15/16"	47-3/4"	59"	70-1/16"	82"	94"
height 23"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
23-15/16"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
35-3/16"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
35"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
35-15/16"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
47"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
47-3/16"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
59"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
59-1/16"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
70"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
82"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
94"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50



SEE SHEET 1 & 2 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES

FOR GLASS TYPES
5) 5/16" LAMI (3/16 HS - .090" SG - 3/16 HS)
7) 7/8" LAMI. IG, (3/16" AN - 1/4" AIR - 3/16" HS - .090" SG - 3/16" HS)
9) 7/8" LAMI. IG, (3/16" T - 1/4" AIR - 3/16" HS - .090" SG - 3/16" HS)
FOR FRAME TYPES
FLANGE ONLY

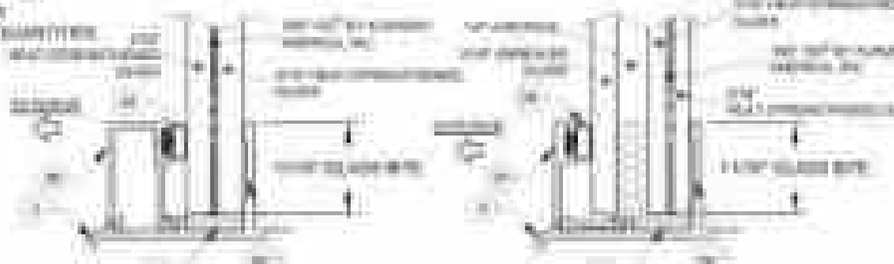
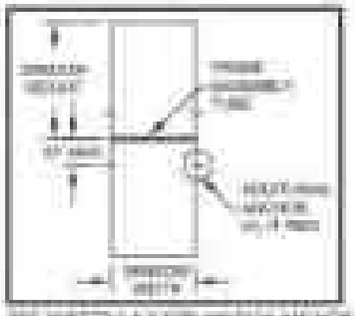




TABLE 12

	Design Pressure (psf) for Window Attached to a Flange Frame Assembly Only																							
	Window Size																							
	width 23"				35-15/16"			47-3/4"			59"				70-1/16"				82"				94"			
	Active Strap		Inactive Strap		Active Strap			Active Strap			Active Strap				Active Strap				Active Strap				Active Strap			
	A	B	C	D	A	B	C & E	A	B	C & E	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
height 23"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
23-15/16"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
35-3/16"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
35"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
35-15/16"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
47"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
47-3/16"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
59"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
59-1/16"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
70"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
82"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70																			
94"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70																			



SEE SHEETS 1 & 2 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY USE WHEN USING FLANGE FRAMES.



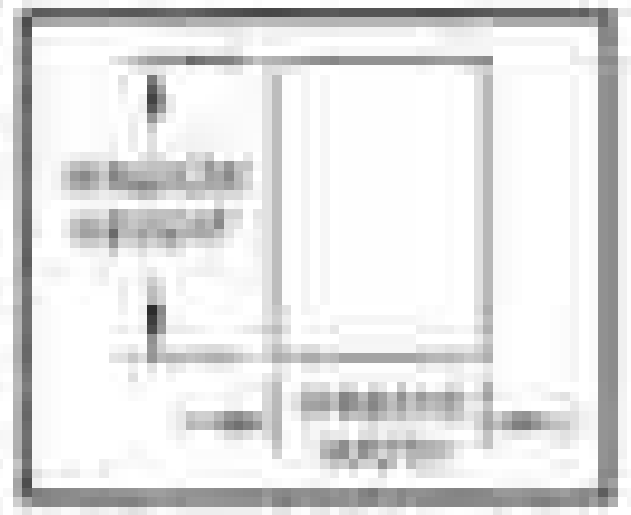
SEE SHEETS 1 & 2 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY USE WHEN USING FLANGE FRAMES.

NOTES:
1. [illegible]
2. [illegible]
3. [illegible]

PGT
ALUM CASEMENT WINDOW (AW)
DESIGN PRESSURE TABLES
FL45566.1YYSE
CA10
C1.0
LOGAN YORKE
REVISIONS
DATE

TABLE 1A

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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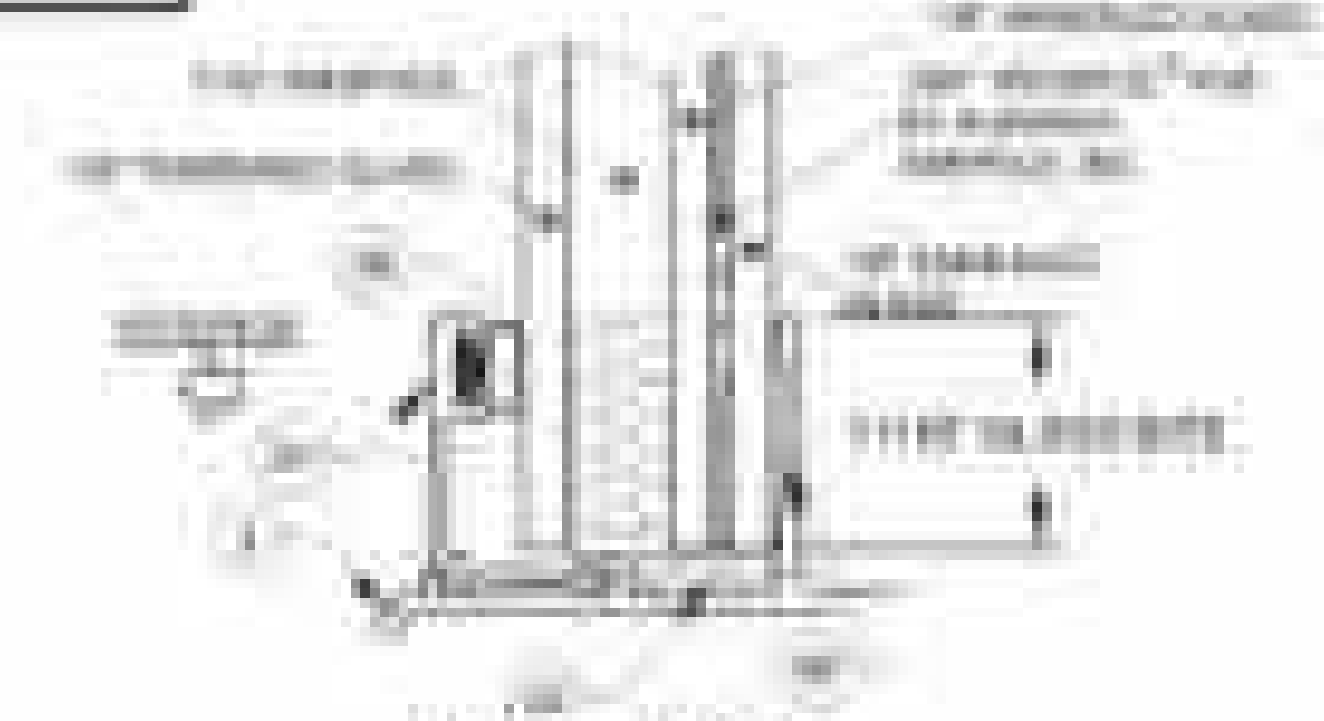


FOR GLASS TYPES:

8) 7/8" LAMI. IG: (1/8" T - 7/16" AIR - 1/8" AN - .090" PVB - 1/8" AN)

FOR FRAME TYPES:

FLANGE & INTEGRAL FIN



GLASS TYPE 8

TABLE 1B

[illegible]	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
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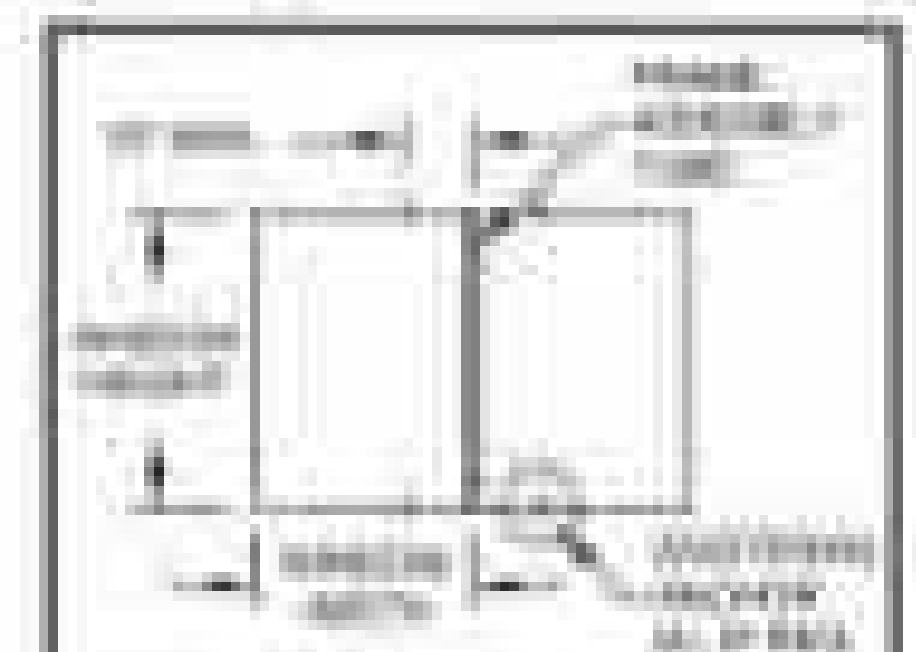
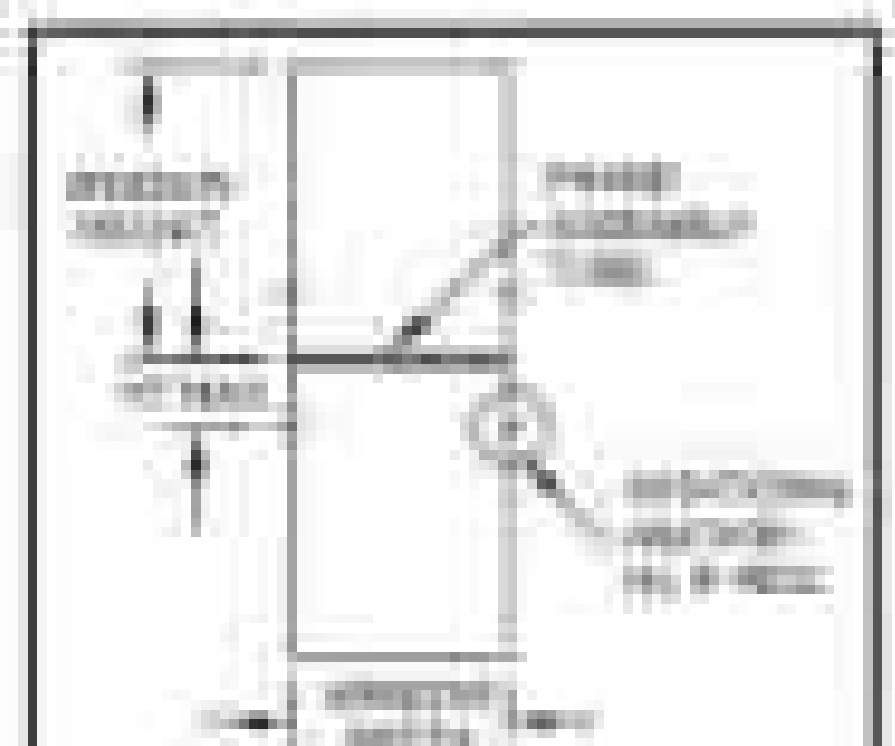


TABLE 1C

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	A	B	C, D & E	A	B	C, D & E	A	B	C, D & E
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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NOTES:
[illegible]

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ALUM. CASEMENT WINDOW (LM)

DESIGN PRESSURES PER GLAZING TYPES

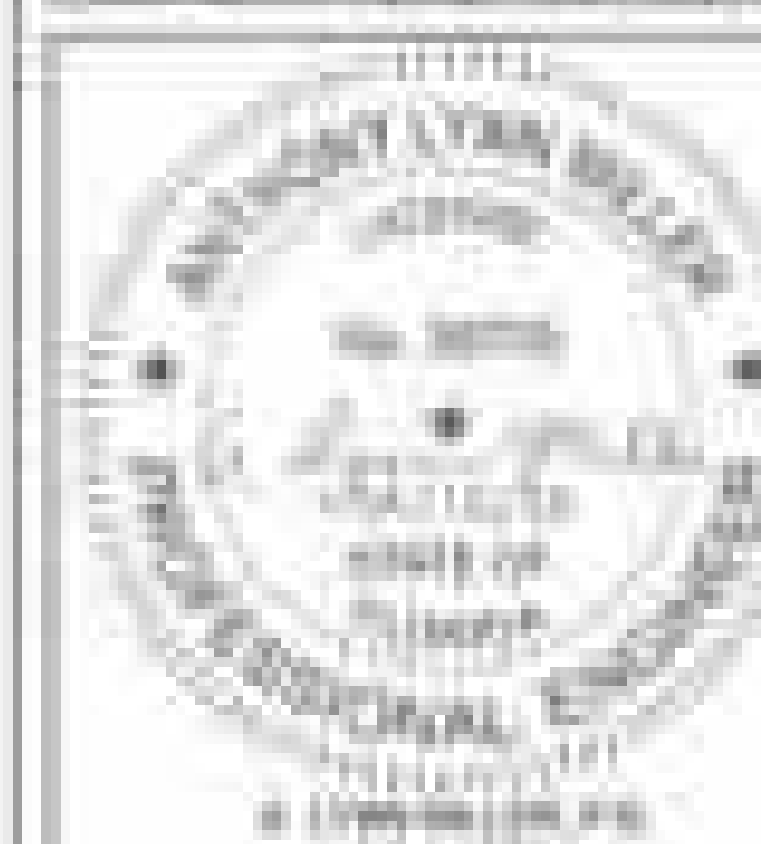
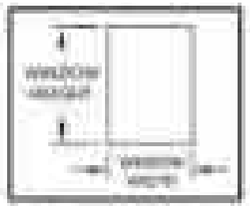


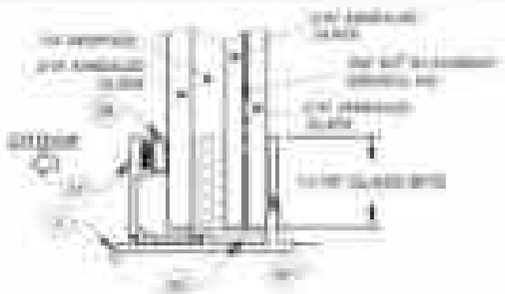
TABLE 17

	Design Pressure (psf) for Single Windows, All Nominal Designs						
	Window Width						
Window Height	Under 23"	23-1/16"	31-5/8"	35"	43-1/2"	59"	71"
Under 23"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
23-1/16"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
35-1/2"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
47"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
59-1/16"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
71"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
83"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
95"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50



SEE SHEET 2.1 & 2.2 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

FOR GLASS TYPES:
6) 7/8" LAMI. IG: (3/16" AN - 1/4" AIR - 3/16" AN - .090" SG - 3/16" AN)
8) 7/8" LAMI. IG: (3/16" T - 1/4" AIR - 3/16" AN - .090" SG - 3/16" AN)
FOR FRAME TYPES:
FLANGE ONLY



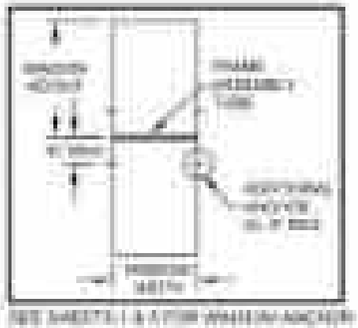
GLASS TYPES 6
OR NON GLASS STACK



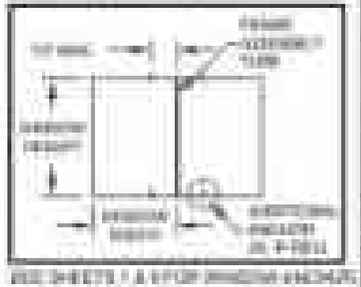
GLASS TYPES 8
OR NON GLASS STACK

TABLE 18

	Design Pressure (psf) for Window Attached to Composite Frame Assembly Tube																							
	Window Width																							
Window Height	Under 23"				23-1/16"			31-5/8"			35"				43-1/2"				59"				71"			
	Window Design				A	B	C & D	A	B	C & D	A	B	C	D	A	B	C	D	A	B	C & D	A	B	C	D
Under 23"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
23-1/16"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
35-1/2"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
47"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
59-1/16"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
71"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
83"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
95"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50



SEE SHEETS 2.1 & 2.2 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 2.3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.



SEE SHEETS 2.1 & 2.2 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 2.3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

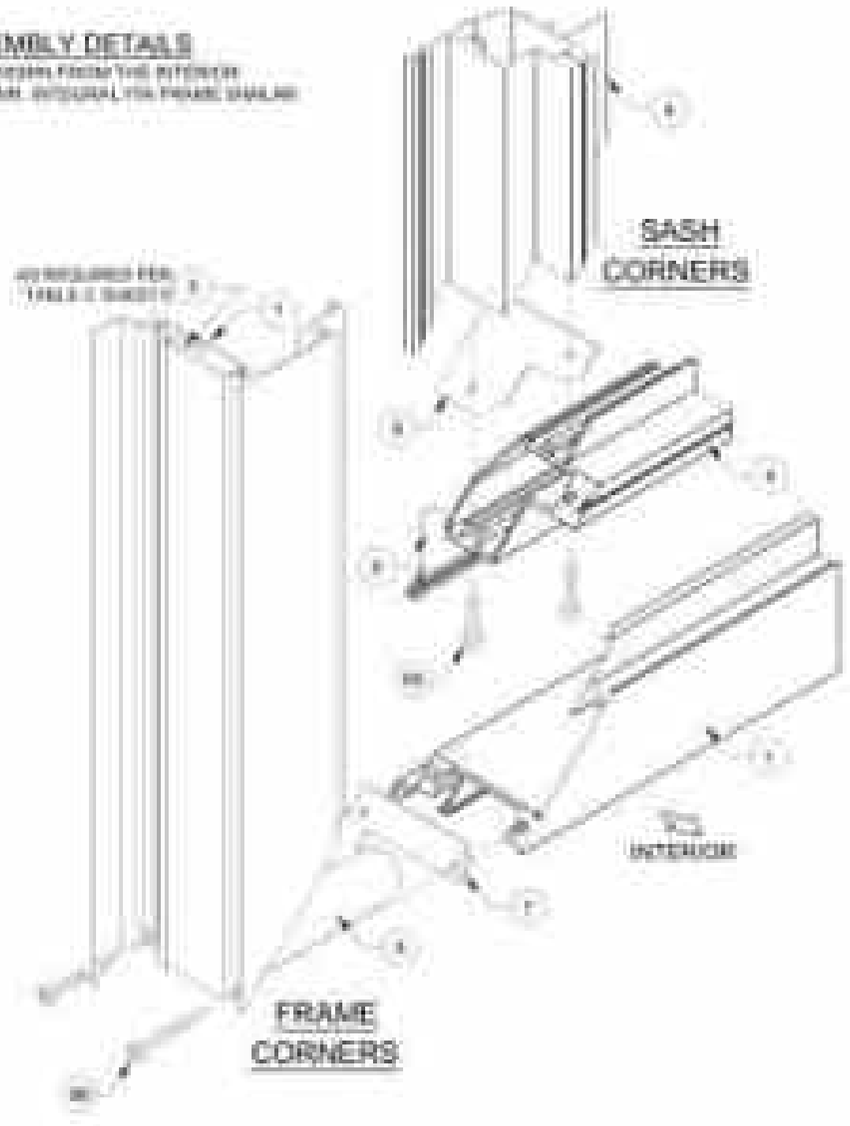
NOTES:
1) SEE SHEET 1.2 FOR ADDITIONAL NOTES & CONFIGURATIONS.
2) SEE SHEET 2.3 FOR ANCHOR DETAILS.
3) FOR FLOOR CONDITIONS OTHER THAN THE WINDOW, SUBTRACT 1 FROM THE TOTAL NUMBER OF SCREWS SHOWN FOR THE WINDOW SIZE.

PGT
ALUM CASEMENT WINDOW (LW)
DESIGN PRESSURE RDA
CASEMENT
2.4
3 OF 11
CA10

Item	Desg. #	Description	Material
1	1002	Main Frame Head, Sill & Jamb, Flange	6063-T6 Alum.
2	1075	Main Frame Head, Sill & Jamb, Fin	6063-T6 Alum.
3	1071	Anchor Plate	6063-T6 Alum.
4	1003	Sash Top, Bottom & Side Rail	6063-T6 Alum.
5	1049	Frame Corner Key	Steel
6	1026	Sash Corner Key	Steel
7	1019	Frame Gasket	Vinyl Foam
8	1012	Sash Corner Gasket	Vinyl Foam
9	1010	Bulb Weatherstrip, 187" x .219"	Flex PVC 70
10	1024	Maxim Multi-Point Lock	Steel
11	1028	Lock Support Plate	Steel
12	1018	Multi-Lock Keeper	Steel
13	1017	Tie Bar Guide	Nylon
14	1016	Tie Bar Assembly	Steel or SS
15	1038	Maxim Dual Operator, W91>>24"	Steel
16	1037	Maxim Dual Arm Operator, W90<24"	Steel
17	1030	Operator Gasket	Vinyl Foam
18	1031	Operator Backing Plate	Steel
19	1065	Operator Spacer Block	Nylon
20	1032	Strut Bracket	Steel
21	1033	Operator Track & Slider (Dual Arm)	Steel
22	1051	Egress Hinge (Heavy Duty), Maxim by Truth	Steel
23	1052	Egress Hinge/Washable (HD), Maxim by Truth	Steel
31		Zinc Steel Spacer	Steel
32	1115	Setting Block, 0.53" x 3.19" x 1.19"	EPDM
33	1114	Setting Block, 0.53" x 7.19" x 1.19"	EPDM
34	1037	Reset A	6063-T6 Alum.
35	1038	Reset B	6063-T6 Alum.
36	1040	Reset C	6063-T6 Alum.
37	1041	Reset D	6063-T6 Alum.
38	1023	Vinyl Bulb Wrap (Thin)	Flex PVC 70
39	1025	Vinyl Bulb Wrap (Thin)	Flex PVC 70
50		Dow 795, 999 or 902 Backbedding	Silicone
60	1008	Screen Frame	6105-H14 Alum.
61	1040	Screen Corner Key	Polypropylene
62		Screen Cloth	Fiberglass
63	1035	Screen Spline	EM PVC
64	102	Screen Fixing	Stainless Steel
71	1009	Frame Assy Tube	6063-T6 Alum.
80		#8-32 x 1/2" Pn. Fh. Mach. Scr. TYPE 18	Stainless Steel
81	1107	#8 x 1/2" Pc. Fh. SMS	Stainless Steel
82		#8 x 5/8" Fl. Ph. SMS	Stainless Steel
83		#8 x 7/8" Fl. Ph. SMS	Stainless Steel
84		#8 x 1" Fl. Ph. TEK	Stainless Steel
85		#8 x 1" Quad Fh SMS	Stainless Steel
86		#8 X 1 1/2" Quad Fh SMS	Stainless Steel
87		#10 x 1/2" Ph. Fh. TEK	Stainless Steel
88		#10-24 x 9/16" Ph. Fh. TYPE 2	Stainless Steel
90		#12 x 1" Ph. Fh. TEK	Stainless Steel
100		AC Sweep	Varies

ASSEMBLY DETAILS

ALL DETAILS SHOWN FROM THE INTERIOR
FLANGE FRAME SHOWN. INTEGRAL FIN FRAME SIMILAR.



PGT

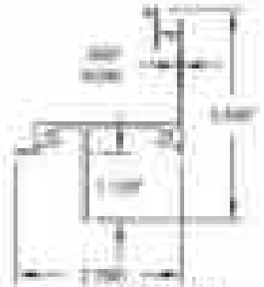
ALUM CASEMENT WINDOW (AW)

SDM & COMBO VIEW

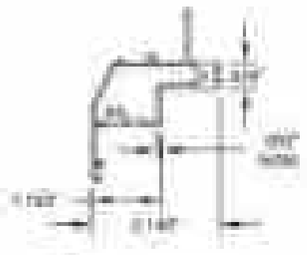
CASEMENT



1 FRAME HEAD, SILL & JAMB, FLANGE
#70002, 6063-T6



2 FRAME HEAD, SILL & JAMB, PJN
#71171, 6063-T6



4 SASH TOP, BOTTOM & SIDE
#71322, 6063-T6



71 FRAME ASSEMBLY TUBE
#71014, 6063-T6



3 ANCHOR PLATE
#71271, 6063-T6



60 FIXED SCREEN FRAME
#70588, 3105-H14



36 BEAD B
#70236, 6063-T6



36 BEAD C
#70432, 6063-T6



37 BEAD D
#70361, 6063-T6

PGT	ALUM CASEMENT WINDOW (AW)
	EXTRUSIONS & SPACERS
	CAD
	CAD
	LOGAN YODER
	07/18/19

