Engineering Evaluation Report #740-04082026

Prepared by:
A. Lynn Miller, P.E.
3400 Precision Dr.
N. Venice, FL 34275
(941) 480-1600
Florida Registration: #29296

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

Product Description:
PW740 Impact-resistant Aluminum Picture Window, (LM), FL5012

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.

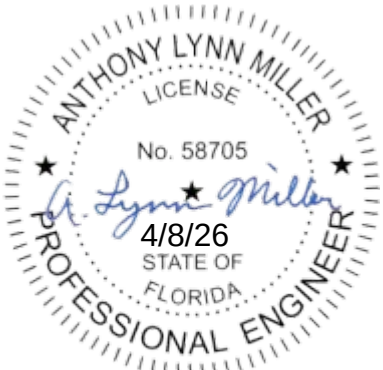
This product has been evaluated and is in compliance with the current Florida Building Code, including the “High Velocity Hurricane Zone” (HVHZ).

Supporting Technical Documentation:
1. Approval document: drawing number PW740-FPA, signed and sealed by A. Lynn Miller, P.E.
2. Test Reports - FTL 7063, signed and sealed by Marlin D. Brinson, P.E.
FTL-3579, 3580, 3724, 3835, signed and sealed by Joseph Chan, P.E.
Fenestration Testing Laboratories, Hialeah, FL 33012
NOK-0157 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 04/08/26.

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, PW740-FPA.



A. LYNN MILLER, P.E.
P.E.# 58705

GENERAL NOTES: SERIES PW750
IMPACT RESISTANT CASEMENT PICTURE WINDOW

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

2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND BORNE DEBRIS REGIONS. FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, THE OUTBOARD LITE (EXAPOSED LITE) MUST TEMPERED.

3) MASONRY USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, NEW 28 CONCRETE, MASONRY UNITS AND CONCRETE WITH MIN. 4.5K PSI (UNLESS NOTED).

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

5) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISHING OR STUCCO. USE ANCHORS OF SUFFICIENT EMBEDMENT AS SPECIFIED ON TABLES 1 & 4, SHEET 3. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

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

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

8) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOAD CORresponding TO THE REQUIRED DESIGN PRESSURE. THE 33.1% 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 FOR WIND, AND WERE NOT USED FOR DEAD OR SEISMIC LOADS.

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

TABLE 1

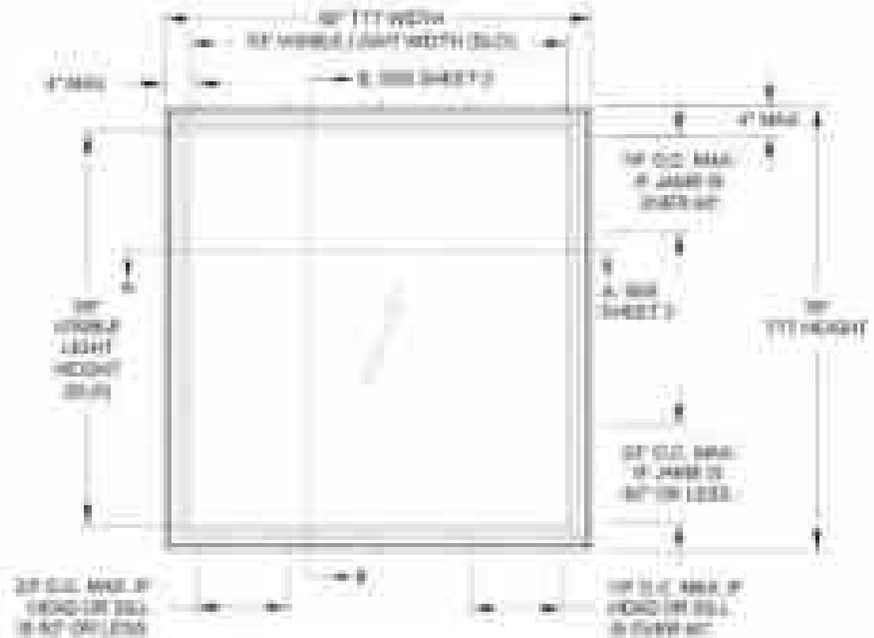
	Glass Types	Sheet #
1	5/16" Lam (1/8 An - .060" PVB - 1/8 An)	7
2	7/16" Lam (2/ 1/8 An - .090" SG - 3/16 An)	8 & 10
3	9/16" Lam (2/ 1/4 HS - .090" SG - 3/16 HS)	11
4	5/8" Lam (2/ 1/8" An - 7/16" Air - 1/8" An - .060" PVB - 1/8" An)	12
5	7/8" Lam (2/ 1/4" T - 5/16" Air - 1/4" An - .060" PVB - 1/4" An)	5
6	7/8" Lam (2/ 1/4" An - 1/4" Air - 3/16" An - .090" SG - 5/16" An)	8 & 10
7	7/8" Lam (2/ 1/4" An - 1/4" Air - 3/16" HS - .090" SG - 3/16" HS)	11
8	7/8" Lam (2/ 1/4" T - 1/2" Air - 3/16" An - .090" SG - 3/16" An)	8 & 10
9	7/8" Lam (2/ 1/4" T - 1/2" An - 3/16" HS - .090" SG - 3/16" HS)	11

"PVB"= TROSIFOL® INTERLAYER BY KURARAY AMERICA, INC.
"SG"= SENTRYGLAS® INTERLAYER BY KUARARY AMERICA, INC.

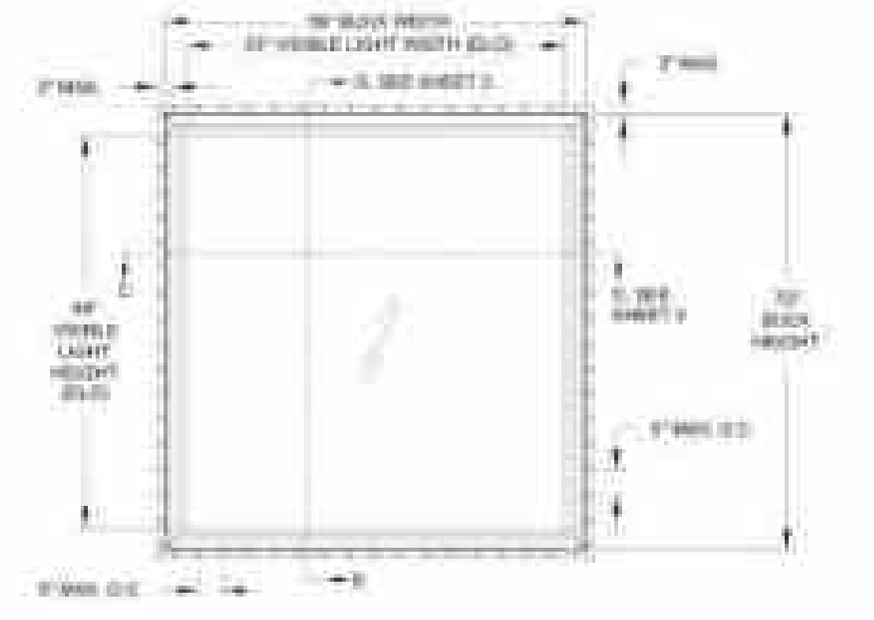
THIS PRODUCT HAS BEEN TESTED TO MEET THE AIR FILTRATION AND ENERGY IMPACT LOADING REQUIREMENTS OF ANSI Z97.1 WHEN USING GLASS TYPES 2 & 5

FLORIDA PRODUCT APPROVAL #(S):

DESIGN PRESSURE RANGE (PSF)	IMPACT RATING
+50/-50 SEE SHEETS 7-12	RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE



TYP. FLANGE FRAME ELEVATION



TYP. FIN FRAME ELEVATION

GENERAL NOTES 1
ELEVATION 1
FLANGE INSTALLATION 2
FIN INSTALLATION 3
ASSEMBLY SIDE DETAILS 4
ANCHOR SPECIFICATIONS 5
ANCHOR LOCATIONS 6-9
DESIGN PRESSURES 7-12
ASSEMBLY DETAILS 13

PGT INDUSTRIES
1070 TAMIAMI TRAIL NORTH
NOKOMIS, FLORIDA 34275

ALUMINUM FIXED CASEMENT WINDOW
GENERAL NOTES & ELEVATION

PW750 | 1 OF 13

REGISTERED PROFESSIONAL ENGINEER
STATE OF FLORIDA

INSTALLATION OPTION 1
INSTALLATION ANCHORS INTO SLAB INSIDE

INSTALLATION OPTION 2
INSTALLATION ANCHORS DIRECTLY INTO MASONRY

INSTALLATION OPTION 4
INSTALLATION ANCHORS DIRECTLY INTO METAL

HORIZONTAL SECTION A-A

VERTICAL SECTION B-B

INSTALLATION OPTION 3
INSTALLATION ANCHORS THROUGH SUBSTRATE INTO MASONRY

NOTES:

1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED ON TABLE 2 SHEET 5. CALLOUT EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.

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

NOTES:

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

Additional Anchors Required on each Side of the Frame Alignment Tube (EA)			
Window Height	Window Type		
	H	R, T, D & DI	
11'1" - 20'0"	1	2	
20'1"	1	1	

Window Height	Anchor Type	
	H	R, T, D & DI
11'1" - 20'0"	1	2
20'1"	1	1

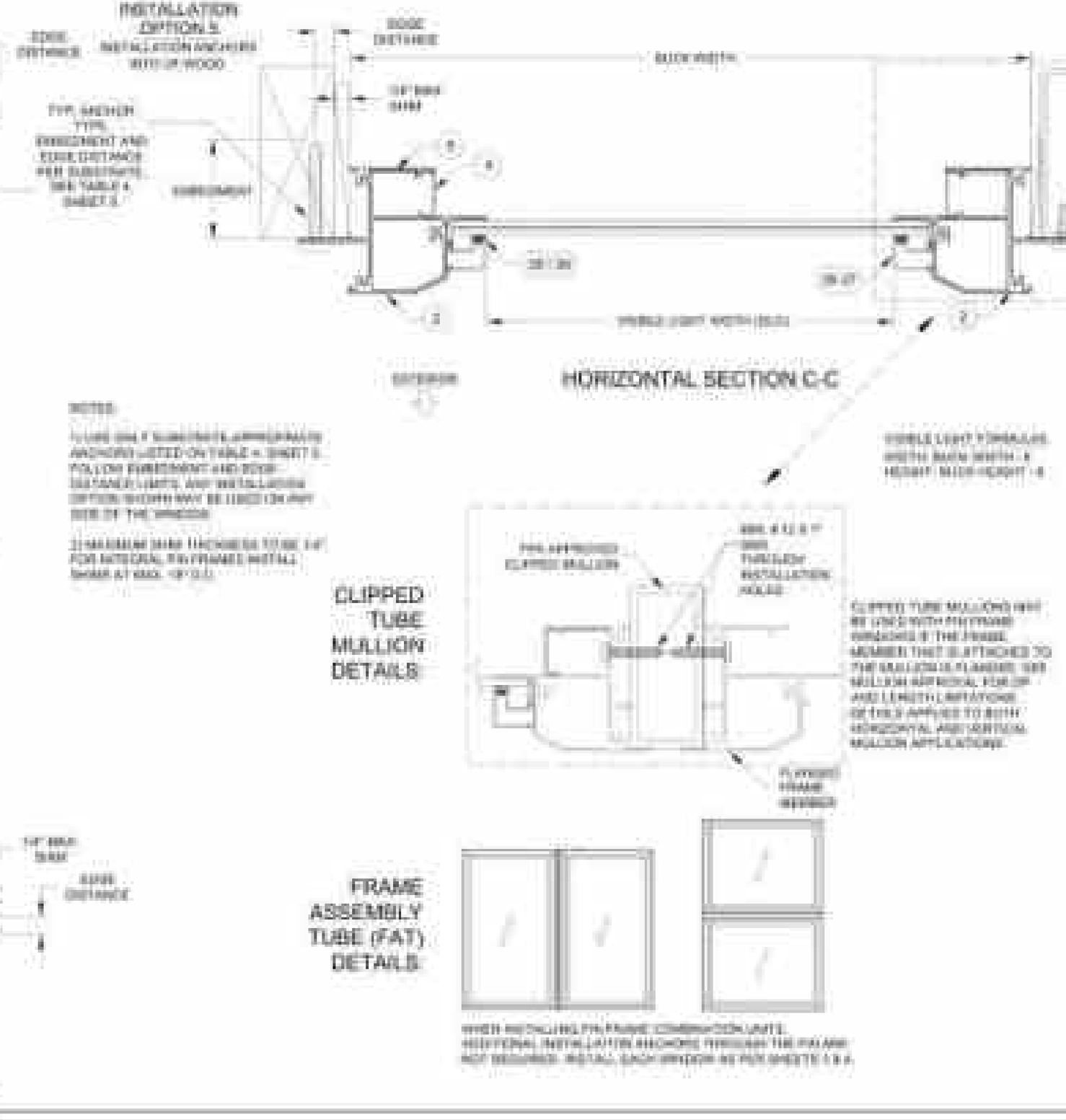
VISIBLE LIGHT FORMULAS
WIDTH: WINDOW WIDTH - X
HEIGHT: WINDOW HEIGHT - X

PGT WINDOWS AND DOORS
ALUMILINE FIXED CASEMENT WINDOW
FLANGE INSTALL DETAILS
PW150
2 OF 15

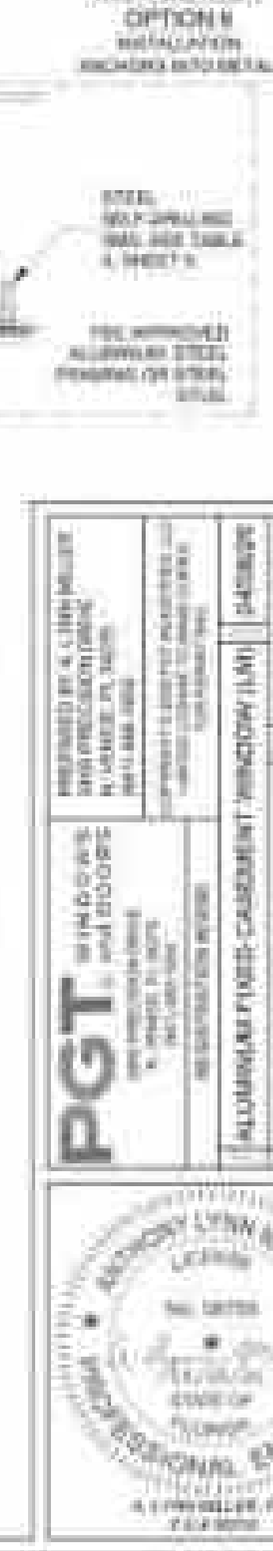
INSTALLATION OPTION 5
INSTALLATION ANCHORS INTO (R WOOD)



INSTALLATION OPTION 5
INSTALLATION ANCHORS INTO (R WOOD



INSTALLATION OPTION 6
INSTALLATION ANCHORS INTO METAL



HORIZONTAL SECTION C-C

INSTALLATION OPTION 5
INSTALLATION ANCHORS INTO (R WOOD)

VERTICAL SECTION D-D

NOTES:

1) USE ONLY SUBSTRATE/ANCHOR/SCREW COMBINATIONS LISTED ON TABLE 4 - SHEET 5 TO LOCK EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.

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

CLIPPED TUBE MULLION DETAILS

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

FRAME ASSEMBLY TUBE (FAT) DETAILS

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

PGT INNOVATIONS

ALUMINUM FIXED, CASEMENT, AWNING & TOP HUNG

TYP INSTALL DETAILS

PW150

SCALE: 3/4" = 1'-0"

PW150-FIN

REVISION HISTORY

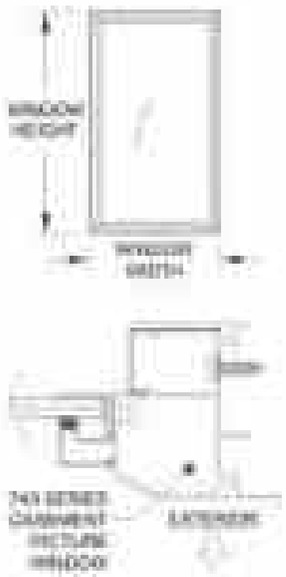
DESCRIPTION

DATE

ENGINEERING

ROBERT LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

CASEMENT PICTURE WINDOW (O)



FOR SINGLE UNITS:

1) DETERMINE YOUR WINDOW SIZE, FRAME TYPE, AND GLASS.

2) DETERMINE YOUR ANCHOR TYPE AND SUBSTRATE, DETERMINE YOUR ANCHOR GROUP FROM TABLES 3 & 4 SHEET 5.

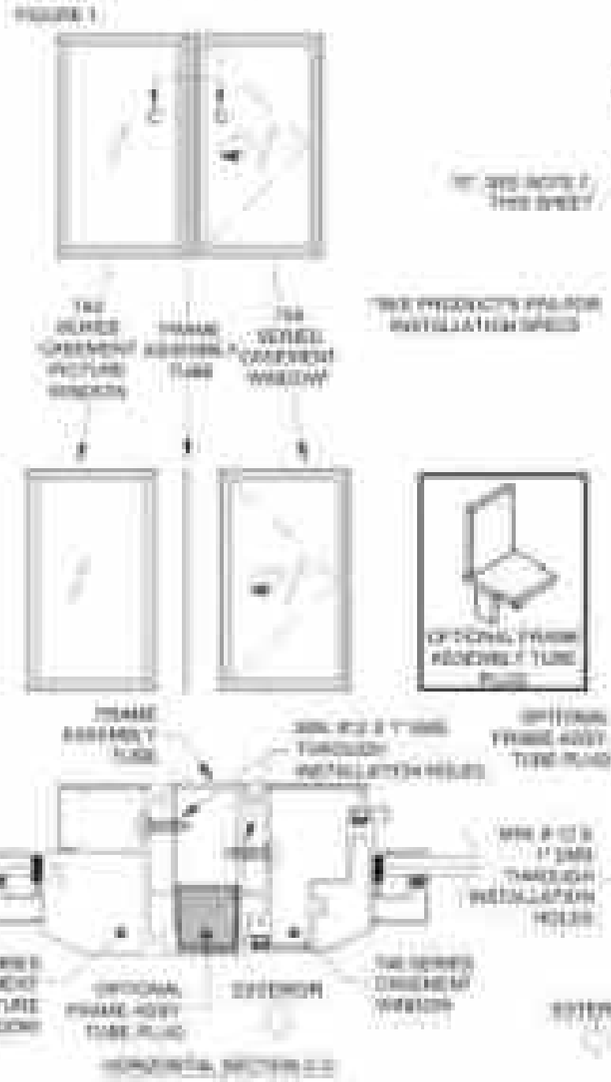
3) FROM SHEETS 7-12 FIND THE SHEET FOR YOUR GLASS TYPE, FIND THE PRODUCT'S DESIGN PRESSURE FROM THE TABLE LABELED "DESIGN PRESSURE (PSF) FOR SINGLE WINDOWS".

4) DIMENSIONS SHOWN ARE TIP-TO-TIP. FOR NAIL FIN WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLES TO DETERMINE THE WINDOW SIZE. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLES.

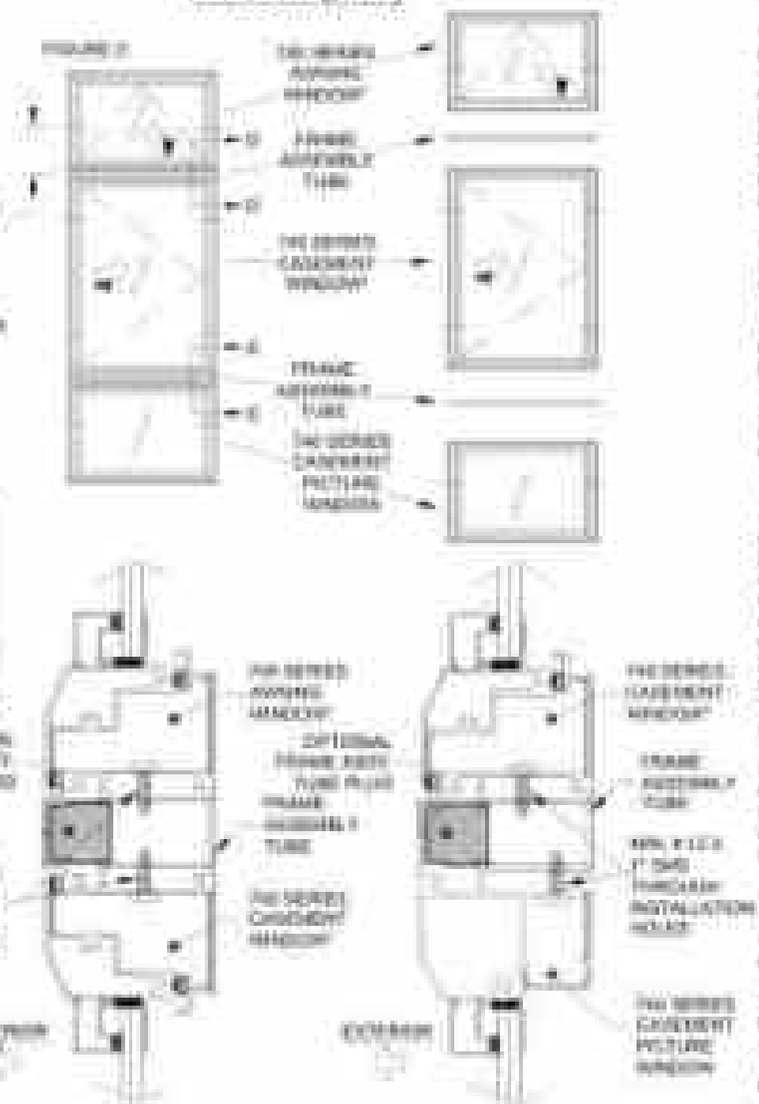
5) FOR FLANGE FRAMES, USING THE TABLES LABELED "WINDOW ANCHORS REQUIRED" (TABLES 24 & 25, SHEETS 5 & 6), DETERMINE THE NUMBER OF ANCHORS NEEDED IN THE HEAD, SILL AND JAMBS OF YOUR WINDOW.

6) INSTALL AS PER THE INSTRUCTIONS ON SHEETS 2 & 3.

CASEMENT PICTURE WINDOW / CASEMENT (OX)



AWNING / CASEMENT / CASEMENT PICTURE WINDOW (XXO)



FRAME ASSEMBLY TUBE NOTES:

1) DIMENSIONS SHOWN ARE TIP-TO-TIP DIMENSION FOR EACH INDIVIDUAL WINDOW. FOR NAIL FIN WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLES TO DETERMINE THE WINDOW SIZE. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLES.

2) ANY 7/8 SERIES PRODUCT (CASEMENT, AWNING OR CASEMENT PICTURE WINDOW) MAY BE ATTACHED TO THE FRAME ASSEMBLY TUBE. FOR ALL WINDOWS, USE THE WINDOW'S "X" FOR ANCHORAGE, SIZE AND DESIGN PRESSURE LIMITATIONS.

3) ALL WINDOWS IN THE COMBINATION UNIT MUST BE ABLE TO WITHSTAND UP (+PSF) WITH THE REQUIREMENTS OF TAS/AAMA/NOA/CE/PSI.

4) FRAME ASSEMBLY TUBE TO BE FASTENED TO WINDOW AS SHOWN IN DETAILS "SHEET NO. #" OF SHEET #/#" TYPE 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 50" IN LENGTH (OR USED IN A 51" FLANGED WINDOW) OR BE USED IN TEE OR CROSS CONFIGURATIONS.

6) THE FRAME ASSEMBLY TUBE IS NOT REQUIRED TO BE CURVED 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 12" MAX. FROM EACH SIDE OF THE FRAME ASSEMBLY TUBE CENTERLINE. SEE TABLE BELOW.
NO ADDITIONAL ANCHORS REQUIRED FOR PW FRAME COMBINATION UNITS.

FOR EACH WINDOW IN A COMBINED ASSEMBLY:

1) DETERMINE EACH INDIVIDUAL WINDOW TYPE, SIZE AND GLASS MAKEUP. SEE FIGURES 1 & 2, THIS SHEET. DETERMINE YOUR ANCHOR GROUP FROM TABLES 3 & 4.

2) FROM SHEETS 7-12, FIND THE SHEET FOR YOUR GLASS AND FRAME TYPE.

3) FIND THE DESIGN PRESSURE FROM THE TABLES LABELED "DESIGN PRESSURE (PSF) FOR WINDOWS ATTACHED TO A FRAME ASSEMBLY TUBE". THIS MUST BE DONE FOR EACH WINDOW IN THE ASSEMBLY, AND THE LOWEST DESIGN PRESSURE APPLIES TO THE ENTIRE ASSEMBLY. DIMENSIONS SHOWN ARE TIP-TO-TIP. FOR NAIL FIN WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLES TO DETERMINE THE WINDOW SIZE. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLES.

4) FOR FLANGE FRAMES, USING THE TABLE LABELED "WINDOW ANCHORS REQUIRED" (TABLES 24 & 25, SHEETS 5 & 6), DETERMINE THE NUMBER OF ANCHORS NEEDED IN THE HEAD, SILL AND JAMBS OF YOUR WINDOW.

5) INSTALL AS PER THE INSTRUCTIONS ON SHEETS 2-3. NOTE THAT ADDITIONAL ANCHORS THROUGH THE WINDOW FRAME INTO THE SUBSTRATE MAY BE REQUIRED (SEE SHEET 3). ADD THAT ANY #12 X 1" ANCHORS ARE TO BE USED THROUGH THE FRAME INTO THE FRAME ASSEMBLY TUBE (SEE DETAILS ON THIS SHEET).

Additional Anchors (Required on each Side of the Frame Assembly Tube #'s")

	Window Height	Anchor Type	
		A	B, C & D
Side	[illegible]	0	0
	[illegible]	1	0
	[illegible]	1	1
	Window Height	Anchor Type	
		A	B, C & D
Side	[illegible]	0	0
	[illegible]	1	0
	[illegible]	1	1

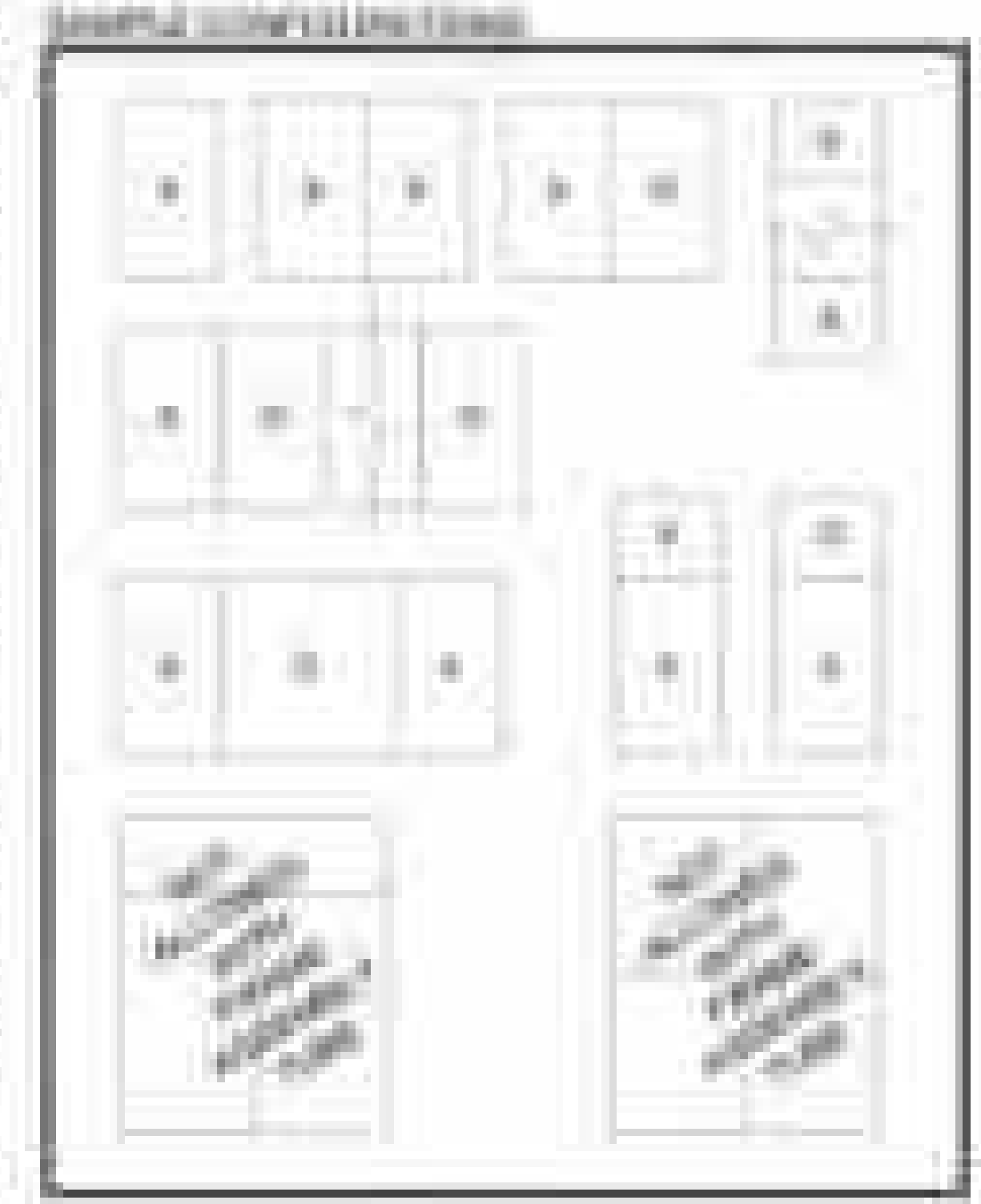
PW150-FW

ALUMINUM FIXED CASEMENT WINDOW	24WB0030		
		COLLECTION	
PGT INDUSTRIES	ALUMINUM FRAME ASSEMBLY TUBE DETAILS	PW150	9 OF 13

REGISTERED PROFESSIONAL ENGINEER
LICENSE
No. 58705
STATE OF FLORIDA

Window Anchors Required for Through-Frame Installation (37" and Less on Short Side Dimension)





PGT

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

Anchor Type	Long Side	Short Side	A	B	C	D
Under 25"	Long Side	Short Side				
25-1/2-36"	Long Side	Short Side				
36"	Long Side	Short Side				
42"	Long Side	Short Side				
48"	Long Side	Short Side	2	2	2	2
			2	2	2	2
49-1/4"	Long Side	Short Side	2	2	2	2
			2	2	2	2
53-1/2"	Long Side	Short Side	2	2	2	2
			2	2	2	2
60"	Long Side	Short Side	2	2	2	2
			2	2	2	2
64"	Long Side	Short Side	2	2	2	2
			2	2	2	2
66-1/2-67"	Long Side	Short Side	2	2	2	2
			2	2	2	2
67-1/2"	Long Side	Short Side	2	2	2	2
			2	2	2	2
68"	Long Side	Short Side	2	2	2	2
			2	2	2	2
70"	Long Side	Short Side	2	2	2	2
			2	2	2	2
72"	Long Side	Short Side	2	2	2	2
			2	2	2	2
76"	Long Side	Short Side	2	2	2	2
			2	2	2	2
78"	Long Side	Short Side	2	2	2	2
			2	2	2	2
80"	Long Side	Short Side	2	2	2	2
			2	2	2	2
84"	Long Side	Short Side	2	2	2	2
			2	2	2	2
90"	Long Side	Short Side	2	2	2	2
			2	2	2	2
96"	Long Side	Short Side	2	2	2	2
			2	2	2	2
102"	Long Side	Short Side	2	2	2	2
			2	2	2	2

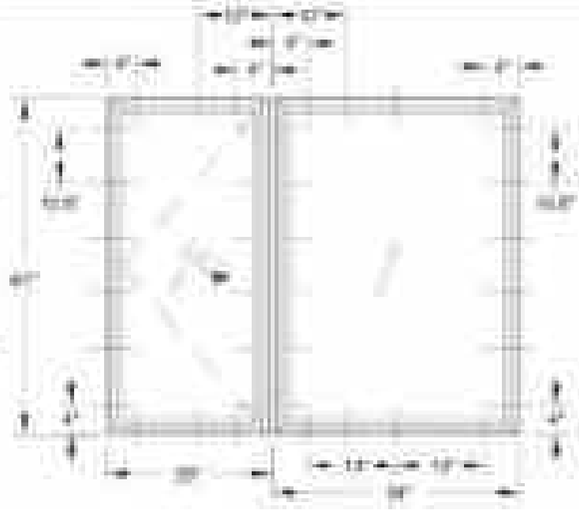
1) USE THIS TABLE FOR ALL FLANGE FRAME WINDOWS PER THE ELEVATIONS ON SHEET 1. DIMENSIONS SHOWN ARE TIP TO TIP.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE OR LEAD SIZE DIMENSION SHOWN ON THE TABLE.

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



EXAMPLE 1: FOR WINDOW COMBINATION SHOWN BELOW FLANGE FRAME, FOR HEAD EXTRUSIONS AND JAMB EXTRUSIONS ILLUSTRATE THE MINIMUM ANCHORS INTO CONCRETE. ATTACHMENT PER DP REQUIRED



1) EXEMPT ANCHORS **ARE SEPARATE WEB:**
A) FROM TABLE 1C ANCHORS C & D BELOW A DP OF +70/-80

B) FOR THE JAMB FROM TABLE 3A ANCHOR TYPE C HAS THE ANCHOR AND SUBSTRATE TESTED AND DOES NOT REQUIRE THE ANCHOR PLATE IF USING THE CRETE-FLEX ANCHOR

C) FROM TABLE 2 X 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 & 3: INSTALL 1 ADDITIONAL ANCHOR ON THE FRAME ASSEMBLY TUBE SIDE OF THE JAMMING (HEAD & SILL)

1) EXEMPT PICTURE WINDOW ANCHORS:
A) FROM TABLE 1A, A 24" X 24" CASEMENT PICTURE WINDOW HAS A DESIGN PRESSURE OF +70/-80 REQUIRING ANCHORS C OR D

B) FOR THE JAMB FROM TABLE 3 ANCHOR TYPE C HAS THE ANCHOR AND SUBSTRATE TESTED AND DOES NOT REQUIRE THE ANCHOR PLATE IF USING THE CRETE-FLEX ANCHOR

C) FROM TABLE 2A, X 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 3: INSTALL 1 ADDITIONAL ANCHOR ON THE FRAME ASSEMBLY TUBE SIDE OF THE CASEMENT PICTURE (HEAD & SILL)

PGT WINDOWS AND DOORS

ALUMINUM FIXED CASEMENT WINDOW (CW)

ANCHOR TYPE & QUANTITY

PW150

SHEET NO. 4 OF 13

PW150

REVISIONS

DESCRIPTION

DATE

APPROVED



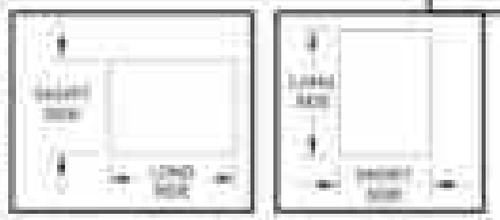
FOR GLASS TYPES:
1) 5/16" LAMI (1/8 AN - .090" PVB - 1/8 AN)
FOR FRAME TYPES:
FLANGE & INTEGRAL FIN

TABLE 3

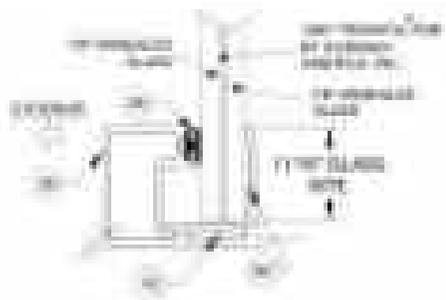
Design Pressure (psf) for Single Windows, All Anchor Groups

Wind Area

Lower Span								



(1) SEE SHEETS 1, 2 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.
(2) TABLE DIMENSIONS MAY BE INTERPOLATED VERTICALLY OR HORIZONTALLY AS SHOWN.



GLASS TYPE 1
SEE SHEET 2 FOR GLASS TYPES

TABLE 4

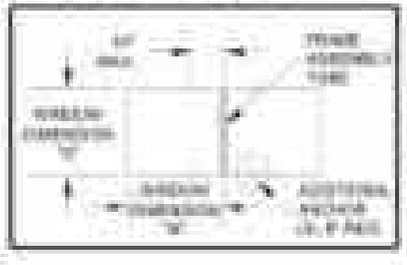
Design Pressure (psf) for Windows Installed in a Frame Assembly Tube

Minimum Dimension "A"

Maximum Overall Design Pressure	Maximum Overall Design Pressure	Maximum Overall Design Pressure	15 1/8" Number Design			20" Number Design			24" Number Design			28 1/8" Number Design			32" Number Design			36" Number Design			40" Number Design			44" Number Design		

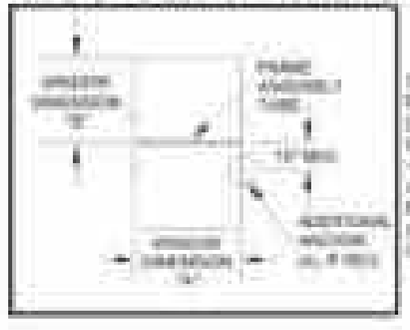
* W1 FOR ANCHOR GROUP 1
* W2 FOR ANCHOR GROUP 2

FIGURE FOR VERTICAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 3 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES

FIGURE FOR HORIZONTAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 3 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES

NOTES:
1. SEE SHEET 5 FOR ADDITIONAL SIMILAR CONFIGURATIONS.
2. FOR 15 7/8" DIMENSIONS NOTED FOR SAFC FABRICATION, SUBTRACT 1" FROM THE TOTAL DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

PGT INDUSTRIES
1070 TAMIAMI TRAIL NORTH
NOKOMIS, FLORIDA 34275
(941) 486-0594

ALUMINUM FIXED CASEMENT WINDOW
MAS WINDOW SERIES
FLANGE FRAME

REVISIONS		
DESCRIPTION	DATE	
ADDED GLASS TYPE 2	11-4-21	

DRAWN	CHECKED
MW	MW

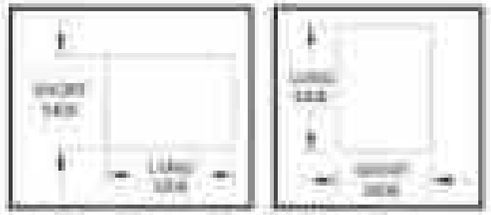
11-4-21
SCALE: NTS
SHEET NO. 3

STATE OF FLORIDA
REGISTERED PROFESSIONAL ENGINEER
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA

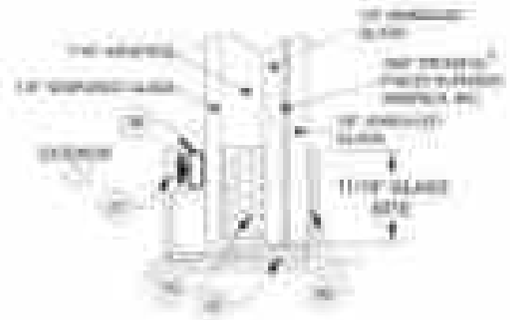
FOR GLASS TYPES:
5) 7/8" LAMI. IG (1/8" T - 7/16" AIR - 1/8" AN - .090" PVB - 1/8" AN)
FOR FRAME TYPES:
FLANGE & INTEGRAL FIN

TABLE 1

	Design Pressure (psf) for Single Aluminum, Mullion Gauge						
	Mullion Length						
	Leader 12'	13'-1 1/2"	14'-3 1/4"	15'-5"	17'	18'	19'-2 3/4"
Leader 12'							
13'-1 1/2"							
14'-3 1/4"							
15'-5"							
16'							
16'-10 1/2"							
18'							
19'-2 3/4"							
20'							
21'							
22'							



1) SEE SHEETS 1, 2 & 4 FOR WINDOW MULLION LOCATIONS AND QUANTITIES.
2) TABLE DIMENSIONS MAY BE OPERATED VERTICALLY OR HORIZONTALLY AS SHOWN.



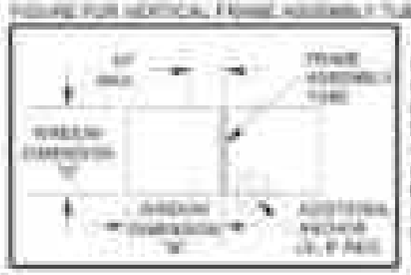
GLASS TYPE 5

TABLE 2

	Design Pressure (psf) for Window Attached to a Frame Assembly Tube																													
	Window Dimension "A"																													
	Leader 30"	36" to 72"	73" to 96"	73" to 96"			97" to 120"				121" to 144"				145" to 168"				169" to 192"				193" to 216"				217" to 240"			
	Anchor Group	Anchor Group	Anchor Group	Anchor Group			Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group			
	30"	36"	96"	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
Leader 30"																														
36" to 72"																														
73" to 96"																														
97" to 120"																														
121" to 144"																														
145" to 168"																														
169" to 192"																														
193" to 216"																														
217" to 240"																														

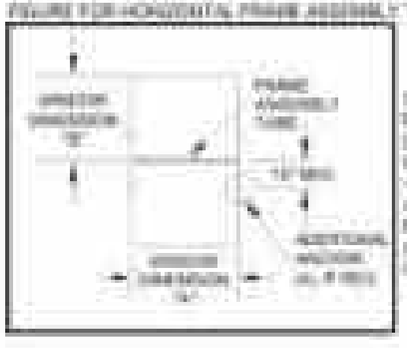
* A1 FOR ANCHOR GROUP D
† B1 FOR ANCHOR GROUP D

FIGURE FOR VERTICAL FRAME ASSEMBLY TUBE



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

FIGURE FOR HORIZONTAL FRAME ASSEMBLY TUBE



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

NOTES:
1. SEE SHEET 5 FOR ADDITIONAL SWING CONFIGURATIONS.
2) FOR 1/2 TOP SWING NOT SHOWN, FOR SAFE, FOR OPERATION, SUBTRACT 1" FROM THE TABLE 1/2 TOP DIMENSION IN THE TABLE TO DETERMINE THE SWING HEIGHT.

PGT INDUSTRIES

ALUMINUM FIXED CASEMENT WINDOW

WINGUARD

PW150

DRAWING NO. 40.8

SHEET NO. 3

PW150-FW

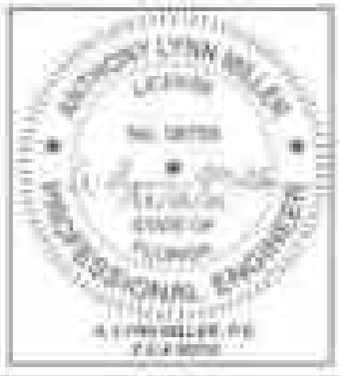
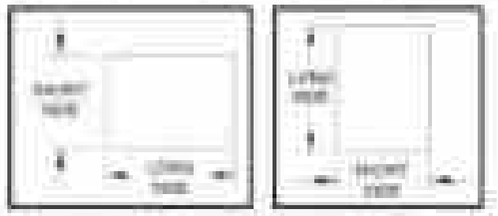


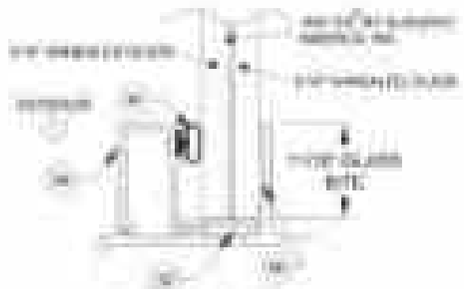
TABLE 2

	Design Pressure (psf) for Window Attached to a Frame Assembly Type									
	Window Dimension "A"									
Window Dimension "B"	Under 23"	23 1/4" to 31"	31 1/4" to 39"	39 1/4" to 47"	47 1/4" to 55"	55 1/4" to 63"	63 1/4" to 71"	71 1/4" to 79"	79 1/4" to 87"	87 1/4" to 95"
	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group
	4	4	4	4	4	4	4	4	4	4
Under 23"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
23 1/4" to 31"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
31 1/4" to 39"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
39 1/4" to 47"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
47 1/4" to 55"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
55 1/4" to 63"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
63 1/4" to 71"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
71 1/4" to 79"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
79 1/4" to 87"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
87 1/4" to 95"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70

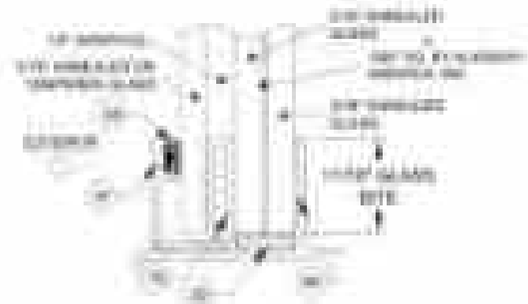


1. SEE SHEETS 1, 3 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.
2. TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.

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

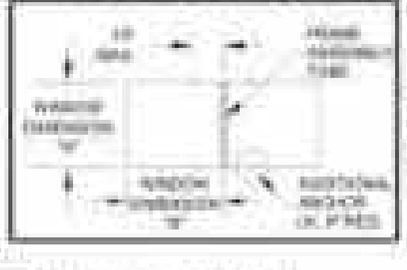


GLASS TYPES 6 & 8

TABLE 1G

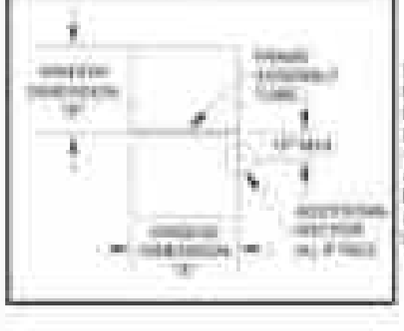
	Design Pressure (psf) for Window Attached to a Frame Assembly Type																			
	Window Dimension "A"																			
Window Dimension "B"	Under 23"	23 1/4" to 31"	31 1/4" to 39"	39 1/4" to 47"	47 1/4" to 55"				55 1/4" to 63"				63 1/4" to 71"				71 1/4" to 79"			
	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group				Anchor Group				Anchor Group				Anchor Group			
	4	4	4	4	4	6	8	10	4	6	8	10	4	6	8	10	4	6	8	10
Under 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
23 1/4" to 31"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
31 1/4" to 39"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
39 1/4" to 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
47 1/4" to 55"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70				
55 1/4" to 63"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70								
63 1/4" to 71"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70												
71 1/4" to 79"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70												
79 1/4" to 87"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70												
87 1/4" to 95"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70												

FIGURE FOR VERTICAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 3 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

FIGURE FOR HORIZONTAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 3 & 4 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 3 FOR ADDITIONAL ANCHOR LOCATIONS.
2. TYP. TO TOP OF WINDOW SHOWN.

PGT INDUSTRIES

WINGUARD

ALUMINUM IMPACT WINDOWS AND DOORS

WIND ZONE 4

DETAILS

PWI-2564

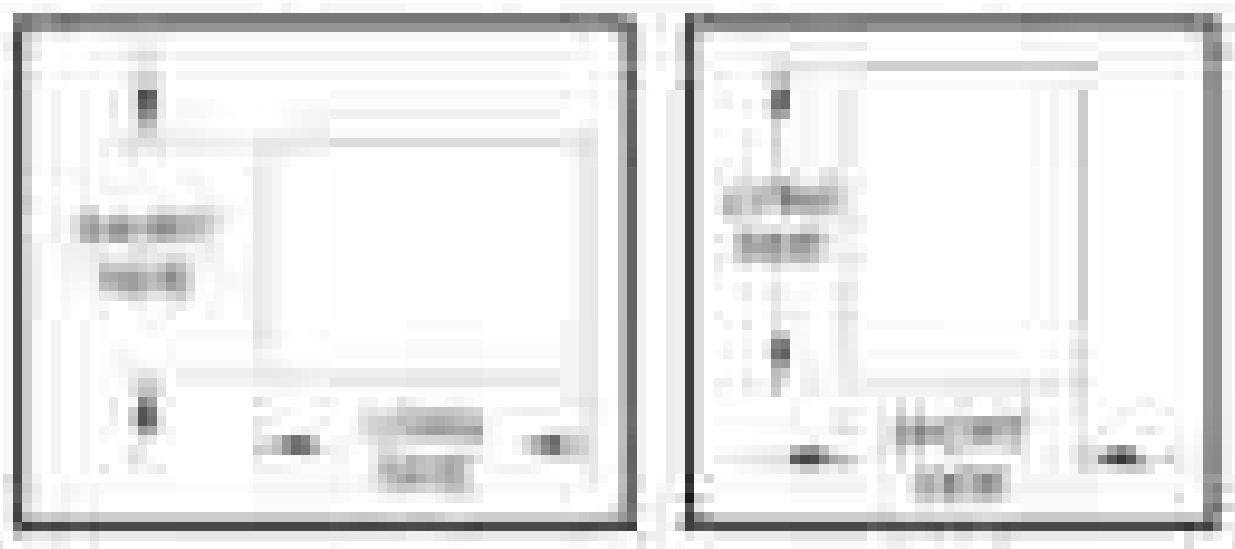
DATE: 10-30-09

SHEET NUMBER



TABLE 11:

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



1. SEE SHEETS 1, 3 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.
2. TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.

TABLE 12:

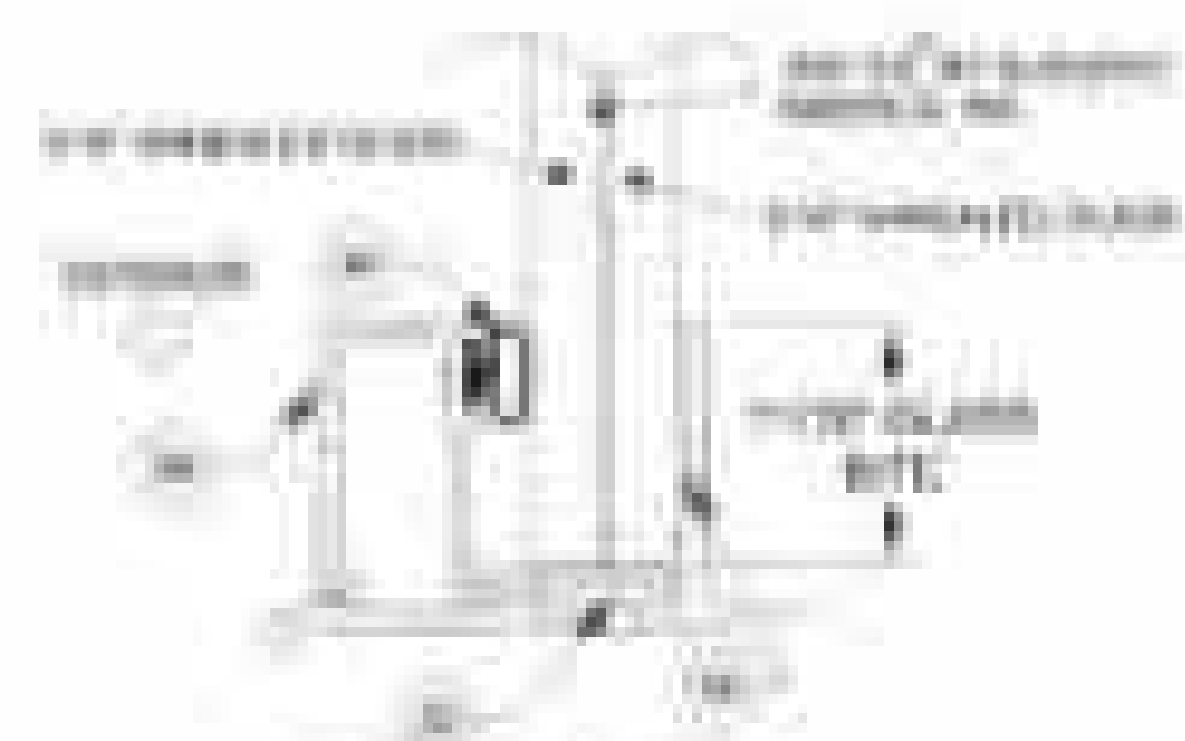
		[illegible]								
		[illegible]								
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]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

FOR GLASS TYPES:

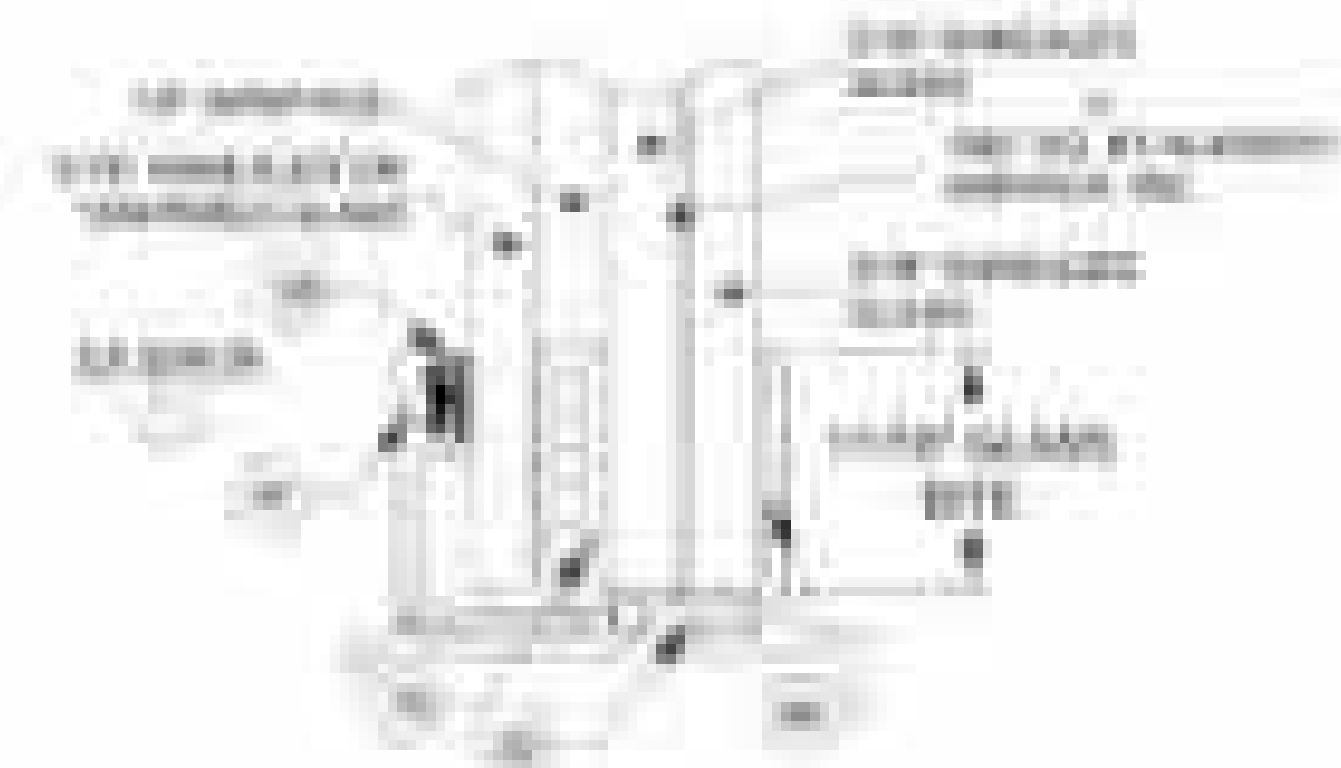
2) 7/16" LAMI. (3/16" AN - .090" SG - 3/16" AN
6) 7/8" LAMI. IG. (3/16" AN - 1/4" AIR - 3/16" AN - .090" SG - 3/16" AN)
8) 7/8" LAMI. IG. (3/16" T - 1/4" AIR - 3/16" AN - .090" SG - 3/16" AN)

FOR FRAME TYPES:

INTEGRAL FIN ONLY



GLASS TYPE 2



GLASS TYPES 6 & 8

FIGURE FOR VERTICAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 3 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. NO ADDITIONAL ANCHORS REQUIRED WITH INTEGRAL FIN FRAME.

FIGURE FOR HORIZONTAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 3 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. NO ADDITIONAL ANCHORS REQUIRED WITH INTEGRAL FIN FRAME.

NOTES:
1. SEE SHEET 3 FOR ADDITIONAL [illegible] CONFIGURATIONS.
2. [illegible] SUBTRACT 1" FROM THE TIP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

PGT WINDOWS and DOORS

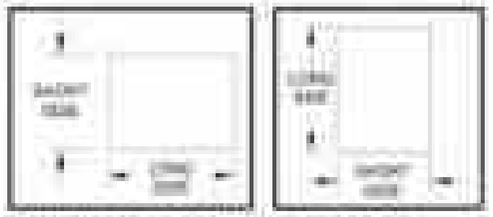
ALUMINUM FIXED CASEMENT WINDOW (LM)
DESIGN PRESSURE PER GLAZING TYPE

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.

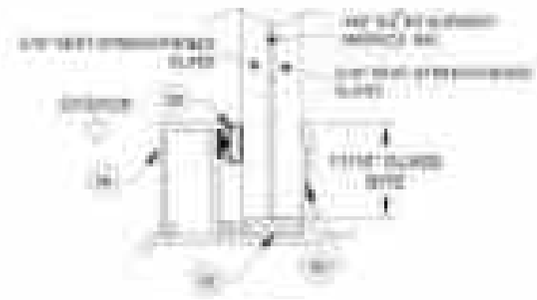
TABLE 11

	Design Pressure (psf) for Single Hardware, Vertical Sliders (-H)									
	Width (in)									
Height (in)	36"	41 1/2"	48"	53 1/2"	60"	66"	72"	78"	84"	90"
36"	+50/-50									
41 1/2"	+50/-50	+50/-50								
48"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	
53 1/2"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
60"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	
66"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50			
72"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50				
78"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50					
84"	+50/-50	+50/-50	+50/-50	+50/-50						

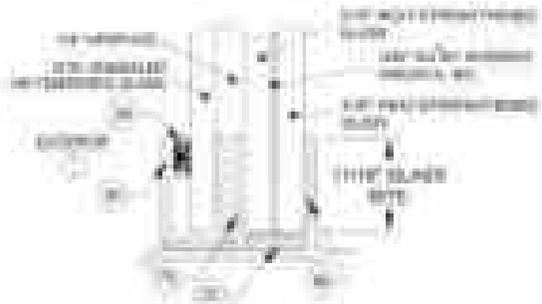


1) SEE SHEETS 1, 5 & 6 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.
2) TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.

FOR GLASS TYPES:
3) 7/16" 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



GLASS TYPE 3

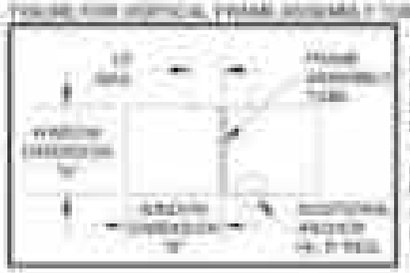


GLASS TYPES 7 & 9

TABLE 14

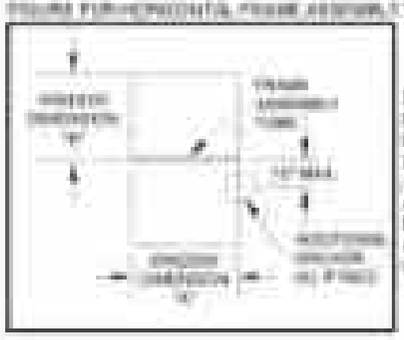
	Design Pressure (psf) for Fin/Nail Mounted in a Frame Assembly Tube																			
	Width (in)				Anchor Group Dimension "D"															
	Anchor Group A1	Anchor Group A2	Anchor Group A3	Anchor Group A4	24"			40"				54"				66"				81"			
					Anchor Group			Anchor Group				Anchor Group				Anchor Group				Anchor Group			
					A	B	C & D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
Height (in)	36"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
	41 1/2"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
	48"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
	53 1/2"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70
	60"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70				
	66"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70								
	72"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70												
	78"	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70	+70/-70																
	84"	+70/-70	+70/-70	+70/-70	+70/-70																		

FIGURE FOR VERTICAL FRAME ASSEMBLY TUBE



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

FIGURE FOR HORIZONTAL FRAME ASSEMBLY TUBE



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

NOTES:
1) SEE SHEET 5 FOR ADDITIONAL ANCHOR CONFIGURATIONS
2) TYP. TO 78" DIMENSIONS SHOWN

PGT WINDOWS

PGT WINDOWS AND DOORS
1070 TECHNOLOGY DRIVE
NORTH VENICE, FL 34275
(941) 480-1600

WINGUARD

ALUMINUM IMPACT SINGLE HUNG WINDOW

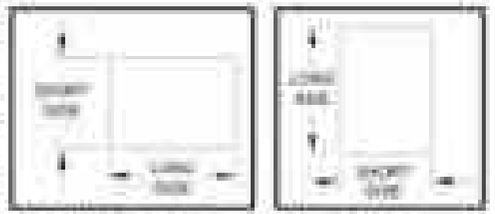
DRAWING NO. | SHEET NO. | REVISION | DATE

STATE OF FLORIDA
PROFESSIONAL ENGINEER

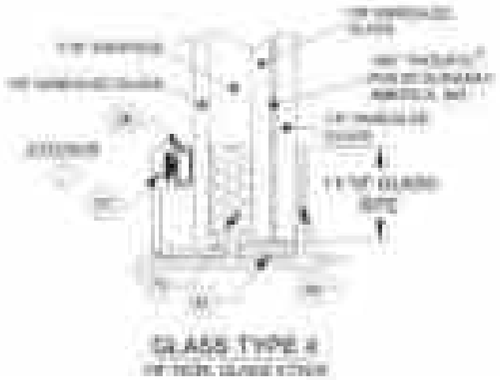
FOR GLASS TYPES:
4) 7/16" LAMI. IG ((1/8" AN - 1/16" AIR - 1/8" AN - .060" PVB - 1/8" AN))
FOR FRAME TYPES:
FLANGE & INTEGRAL FIN

TABLE 17

	Design Pressures (psf) for Single Windows, for Various Heights							
	Width (in)							
Height (in)	Height (in)	30"	36"	42"	48"	54"	60"	66"
30"	30"	+60.0 / -70.0						
36"	36"	+60.0 / -70.0	+60.0 / -70.0					
42"	42"	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0			
48"	48"	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0		
54"	54"	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0	
60"	60"	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0
66"	66"	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0
72"	72"	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0
78"	78"	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0		
84"	84"	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0			
90"	90"	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0				
96"	96"	+60.0 / -70.0	+60.0 / -70.0	+60.0 / -70.0				



1) SEE SHEETS 1, 2 & 3 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.
2) TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN

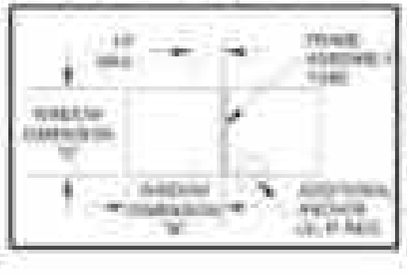


GLASS TYPE 4
(W/ NON-GLASS STOP)

TABLE 18

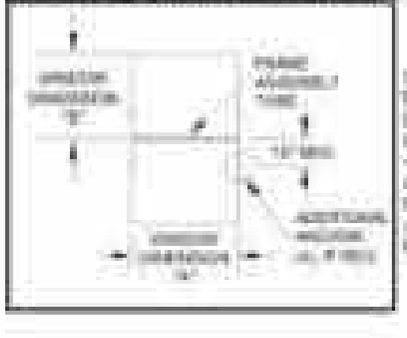
	Design Pressures (psf) for Windows Attached to a Frame Assembly Tube																											
	Window Dimension "H"																											
	Width (in)	30"		36"		42"		48"		54"		60"		66"		72"		78"		84"		90"		96"				
		Anchor Group		Anchor Group		Anchor Group		Anchor Group		Anchor Group		Anchor Group		Anchor Group		Anchor Group		Anchor Group		Anchor Group		Anchor Group		Anchor Group				
		A1		A2		A3		A4		A5		A6		A7		A8		A9		A10		A11		A12				
Height (in)		+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-			
30"	30"																											
36"	36"																											
42"	42"																											
48"	48"																											
54"	54"																											
60"	60"																											
66"	66"																											
72"	72"																											
78"	78"																											
84"	84"																											
90"	90"																											
96"	96"																											

FIGURE FOR VERTICAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 2 & 3 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES

FIGURE FOR HORIZONTAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 2 & 3 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 3 FOR ADDITIONAL SAMPLE SIZE CONFIGURATIONS.
2. FOR ALL TAF DESIGNATIONS SHOWN, FOR MIL FIN VERSIONS, SUBTRACT 11 PSF FROM THE DESIGN PRESSURES IN THIS TABLE TO DETERMINE THE DESIGN PSF.

PGT INNOVATIONS

ALUMINUM IMPACT CASEMENT WINDOW

WIN-PSI-FIN

PW150

SERIES

DRAWING NO.

SHEET NO.

REVISIONS

DESCRIPTION

DATE

APPR.

PRODUCT APPROVAL

STATE OF FLORIDA

PROFESSIONAL ENGINEER

No. 58705

ANTHONY LYNN MILLER, PE

ASSEMBLY DETAILS

FLANGE FRAME SHOWN
INTEGRAL FIN FRAME AVAILABLE

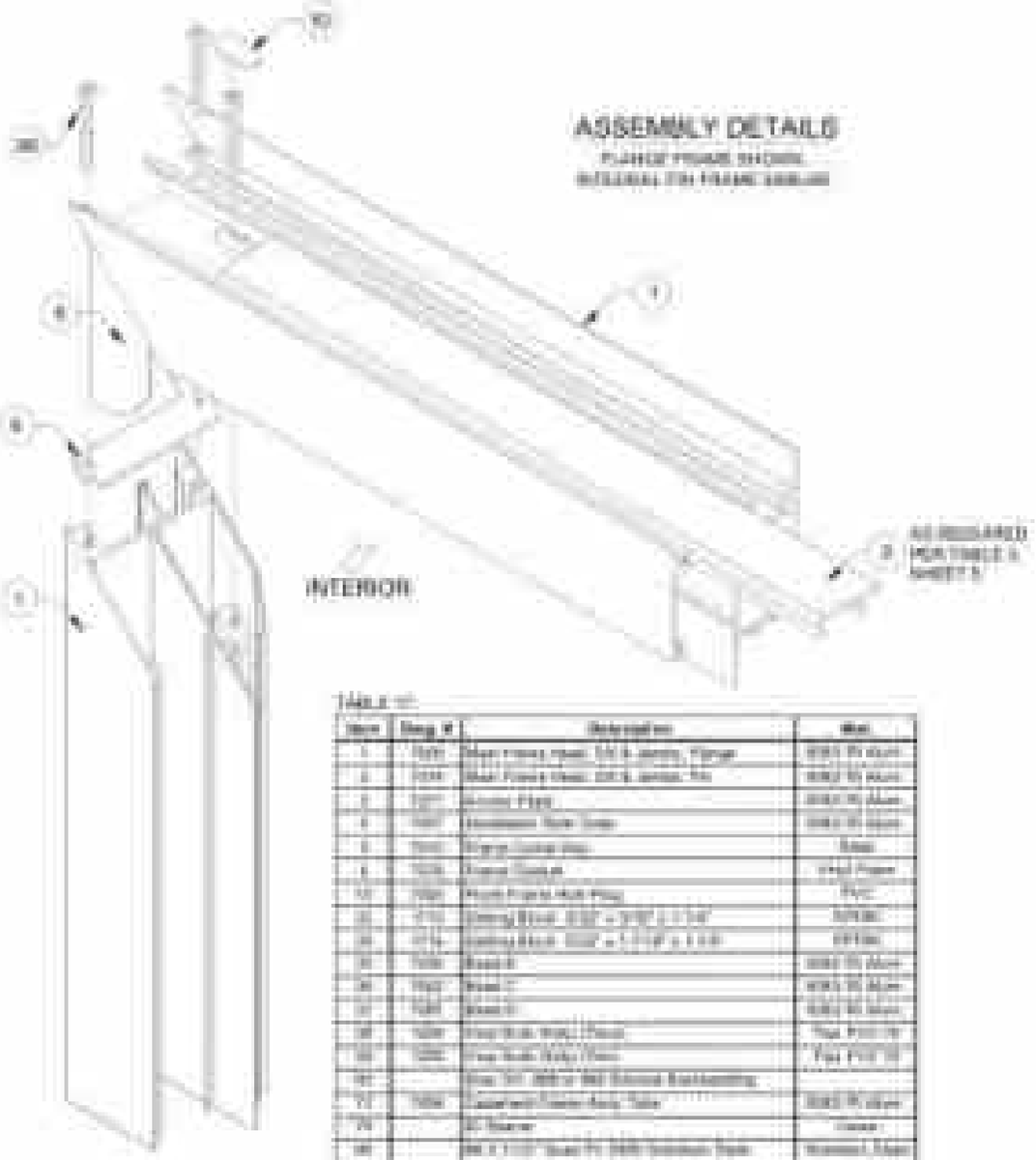
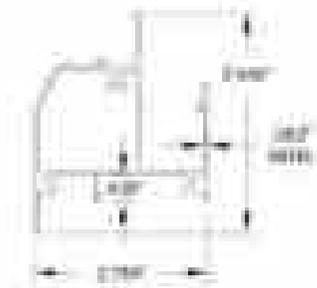
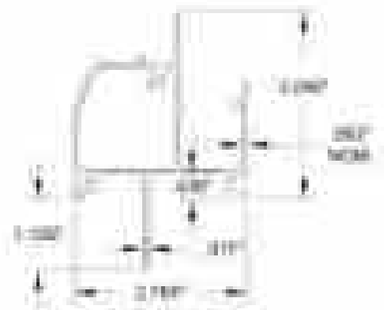


Table 1

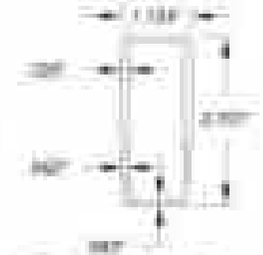
Item	Req. #	Description	Mat.
1	7201	Main Frame Head, Sill & Jambs, Flange	6063-T5 Alum.
2	7204	Main Frame Head, Sill & Jambs, Fin	6063-T5 Alum.
3	7071	Anchor Plate	6063-T5 Alum.
4	7007	Installation Hole Cover	6063-T5 Alum.
5	7010	Screw Cover Cap	Resin
6	7016	Frame Gasket	Vinyl Foam
10	7020	Push Plate Anti-Play	PVC
21	7112	Sliding Block .032" x 3.00" x 1.14"	Nylon
22	7116	Sliding Block .032" x 1.13" x 1.14"	Nylon
30	7036	Bead B	6063-T5 Alum.
31	7037	Bead C	6063-T5 Alum.
32	7038	Bead D	6063-T5 Alum.
35	7039	Vinyl Bulb Wall / Panel	Per P.O.#
36	7040	Vinyl Bulb Sash / Panel	Per P.O.#
70		Screw .101" Wide x Self Drilling Self-tapping	
71	7004	Assembly Frame Main Tube	6063-T5 Alum.
72		90° Elbow	Nylon
90		#8 x 1.125" Steel Pan Head Screw	Stainless Steel
91		#12 x 1.75" Hex Tek	Stainless Steel

















PGT INNOVATIONS
ALUMINUM IMPACT CASEMENT WINDOW
ROW & EXTRUSIONS
PW150
PW150-FW

