Engineering Evaluation Report #5520-08182026

Prepared by:
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Florida Registration: #29296

Manufacturer:
PGT Industries, LLC
3400 Precision Drive
N. Venice, FL 34275

Product Description:
PW5520 Series Impact-Resistant, Vinyl, Picture Window, (LM), FL-5012

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 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).

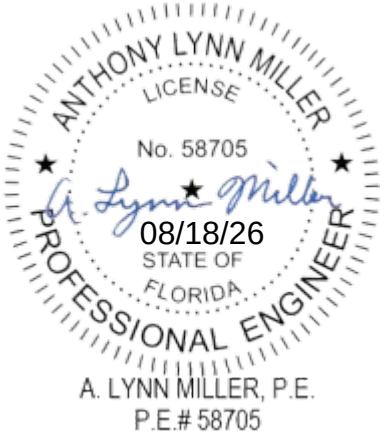
Supporting Technical Documentation:
1. Approval Document: Drawing number PW5520-LM-HVHZ, signed and sealed by A. Lynn Miller, P.E.

2. Test Reports:
FTL-7897, signed and sealed by Idalmis Ortega P.E.; Fenestration Testing Laboratories, Medley, FL
QAI NOK-8672 signed and sealed by Idalmis Ortega P.E.; QAI Laboratories, Nokomis, FL
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. 9/27/14

4. Miami-Dade RER Product Control Section NOA’s; PVB and/or SG Interlayer by Kuraray America, Inc.

Limitations and Conditions of use:
- Units must be glazed per ASTM E1300-24, 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 material to be extruded Vinyl.
- Units must be installed in accordance with approval document.



SERIES PW500
IMPACT RESISTANT VINYL FIXED 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) ELEVATIONS ARE NOT REQUIRED WHEN USED IN WIND BORNE DEBRIS REGIONS, PROVIDED ITEM INDICATED IS USED WITHIN LIMITATIONS OF IN THE NOTES THIS ELEVATION IS TO COMPLY WITH THE REQUIREMENTS.

3) ALL NOTES IN CAPS ARE TYPICAL AND TO BE CONSIDERED AS INSTRUCTIONS TO INSTALLER AND OPTIONAL IF UNIT IS PROVIDED COMPLETE TO SPECIFICATIONS. WHERE MORE RESTRICTIVE IS IN THE TEXT SHALL GOVERN. ALL SCREWS AND ANCHORS TO BE CORROSION RESISTANT AND SUITABLE FOR THE INTENDED USE.

4) ANCHOR REQUIREMENTS TO BE DETERMINED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT. CONTACT ENGINEER FOR PROPER ATTACHMENT. CHANGES TO DESIGN OR METHOD FOR PROPER ATTACHMENT OF INSTALLATION SHALL BE DONE BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT.

5) GLASS, GLAZING AND REQUIREMENTS AT DOOR AND SIDE LOCATIONS WHERE THE PRODUCT IS NOT SUBJECT TO THE SAME FORCES AND IMPACT EXPOSURE OF TEMPERED GLASS, SHALL COMPLY WITH FBC REQUIREMENTS FOR HUMAN IMPACT SAFETY.

6) DESIGN PRESSURES:
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL CYCLIC TEST PRESSURE. FRAME WALL TYPE AND GLASS PER ENTRY ITEM.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL CYCLIC TEST PRESSURE, FRAME WALL TYPE AND GLASS PER ENTRY ITEM.
C. DESIGN LOADS ARE BASED ON ALL CHANNEL TYPES BY HOUSING ARE:

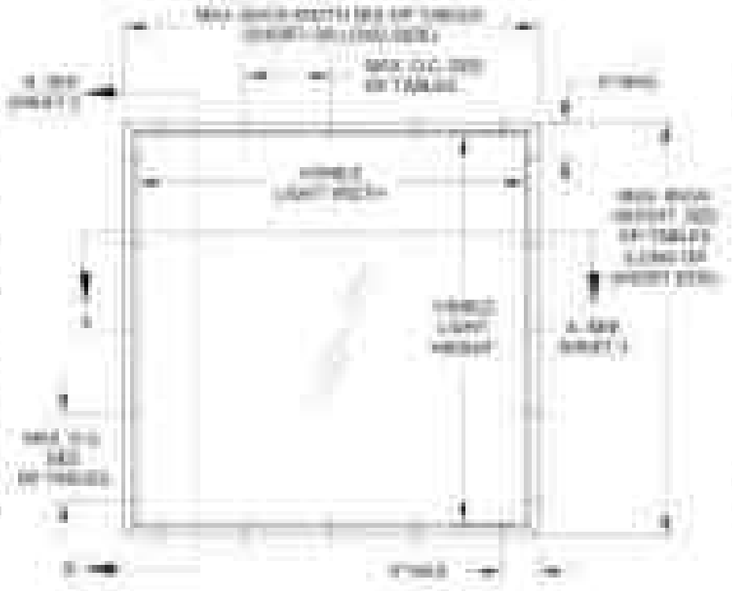
7) THE PERFORMANCE METHODS ENCOUNTERED DURING PROCESS TO MEET THE PRESSURES CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE SIZE OF THE OPENING REPRESENTED IN THE TEST MAY NOT BE THE SIZE OF THE PRODUCT. THE FLORIDA BUILDING CODE ALLOWS THE USE OF THE PRODUCT IN SIZES SMALLER THAN THE TESTED SIZE. THE MANUFACTURER OF WINDOWS AND DOORS, AUTHORIZED TO USE THIS APPROVAL, MAY CONFIRM WITH OTHER TESTING LABORATORIES TO ENSURE THAT SOME WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR COMPLIANCE.

8) FRAME TO BASE OR INTEGRAL FINS MAY BE TRIMMED AS REQUIRED TO ENSURE PROPER FIT.

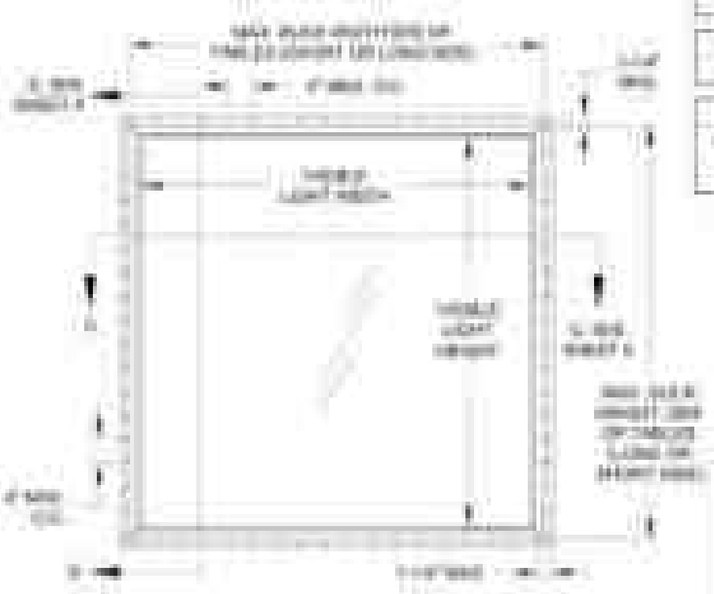
LOADING NOTES	1
ELEVATIONS	1
FRAME, GLASS & ANCHOR OPTIONS	2
METAL - FLANGE & EQUAL LEG	3
METAL - INTEGRAL FIN & J-CHANNEL	4
GLAZING DETAILS	5
DESIGN PRESSURES	6 - 11
SIZE LIMITATIONS & ASSEMBLY	12

THIS SYSTEM HAS BEEN TESTED TO MEET THE HIGHEST OF HVHZ ENERGY IMPACT LOADING REQUIREMENTS OF HVHZ TEST PROTOCOLS TAS 201, 202, 203 AND MAY BE USED IN APPLICATIONS WHERE THE WINDOW IS WITHIN 30 FEET, 4.5 METERS.

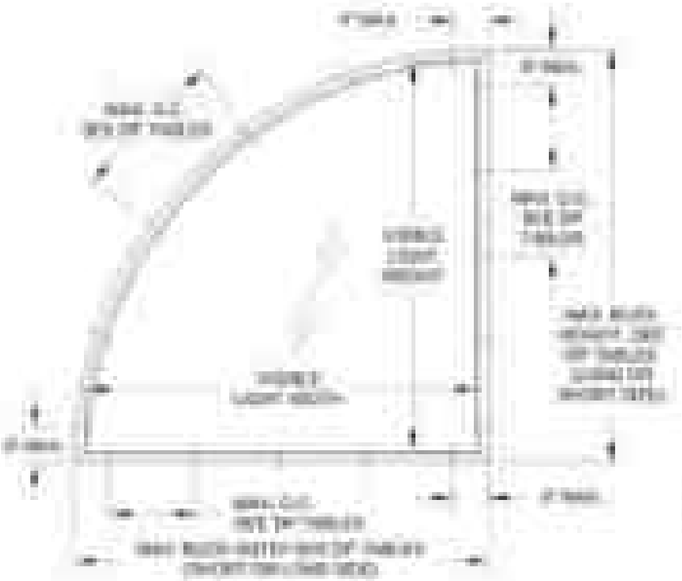
VISIBLE LIGHT FORMULAS
WIDTH: BUCK WIDTH - 4 1/16"
HEIGHT: BUCK HEIGHT - 4 1/16"



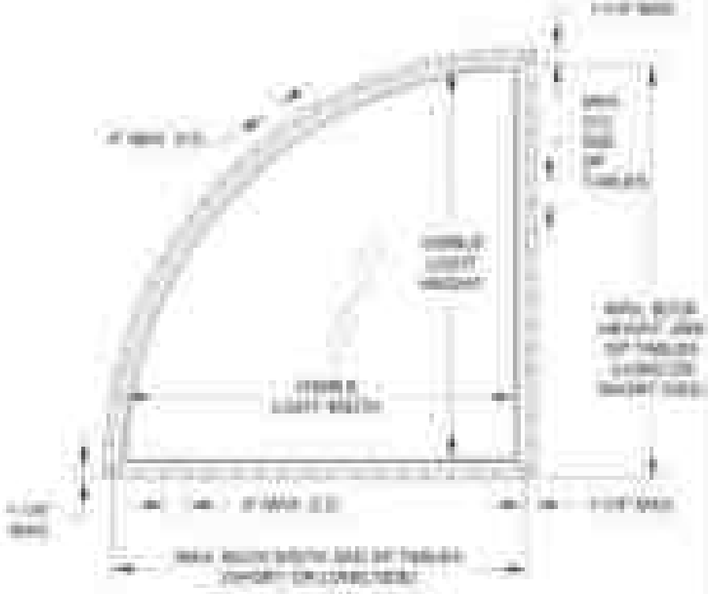
TYP. EQUAL LEG/BOX & FLANGE FRAME (90° CORNERS)



TYP. INTEGRAL FIN & J-CHANNEL FRAME (90° CORNERS) (ANCHORED THROUGH MAIL FIN)



TYP. EQUAL LEG/BOX & FLANGE FRAME (CURVED OR ANGLED CORNERS)



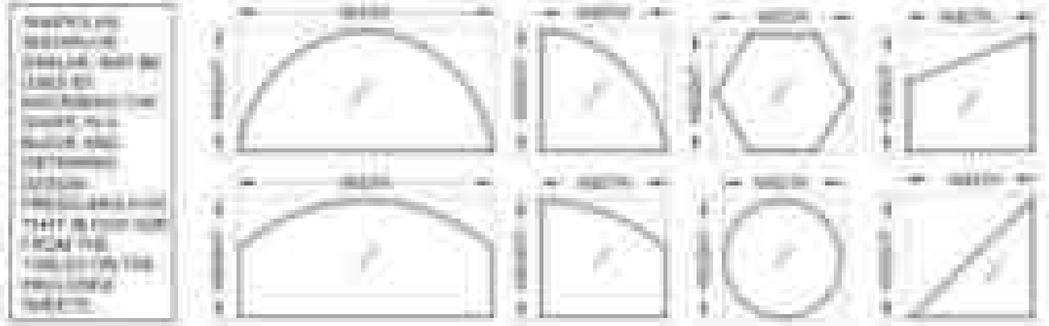
TYP. INTEGRAL FIN & J-CHANNEL FRAME (CURVED OR ANGLED CORNERS) (ANCHORED THROUGH MAIL FIN)

DESIGN PRESSURE RATING
WATER TEST PRESSURE
IMPACT RATING
LARGE AND SMALL MISSILE IMPACT RESISTANT WINDOW SYSTEM

PGT
ULTRA LITE CASEMENT WINDOW
CERTIFICATE OF CONFORMANCE DRAWING

Glass Type	Description	Table #
1	[illegible]	9
2	[illegible]	9
3	[illegible]	9
10	[illegible]	9
11	[illegible]	9
12	[illegible]	9
13	[illegible]	9
14	[illegible]	10
15	[illegible]	11,12
16	[illegible]	13
17	[illegible]	13

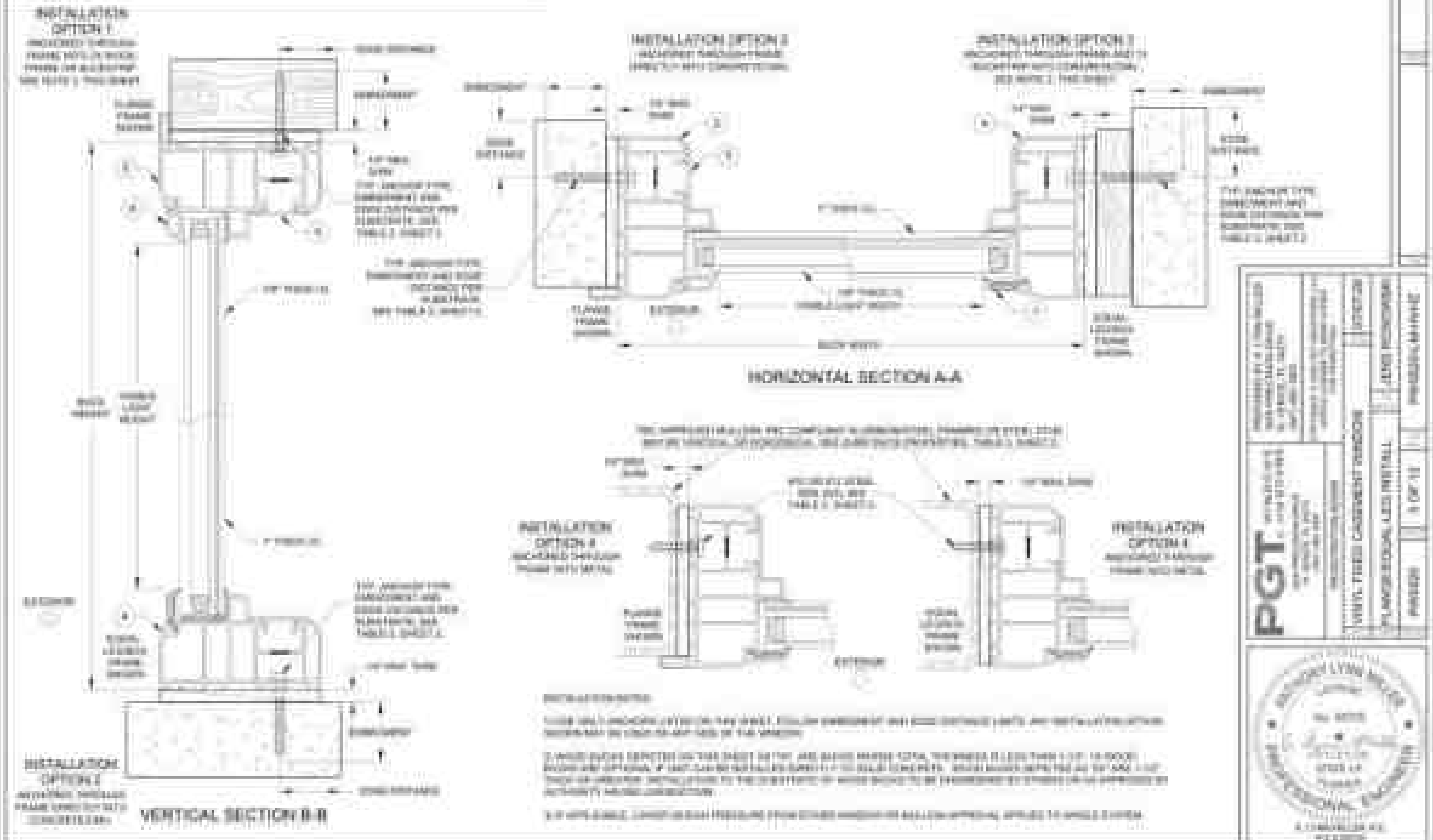
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C	[illegible]	[illegible]	[illegible]	[illegible]
D	[illegible]	[illegible]	[illegible]	[illegible]



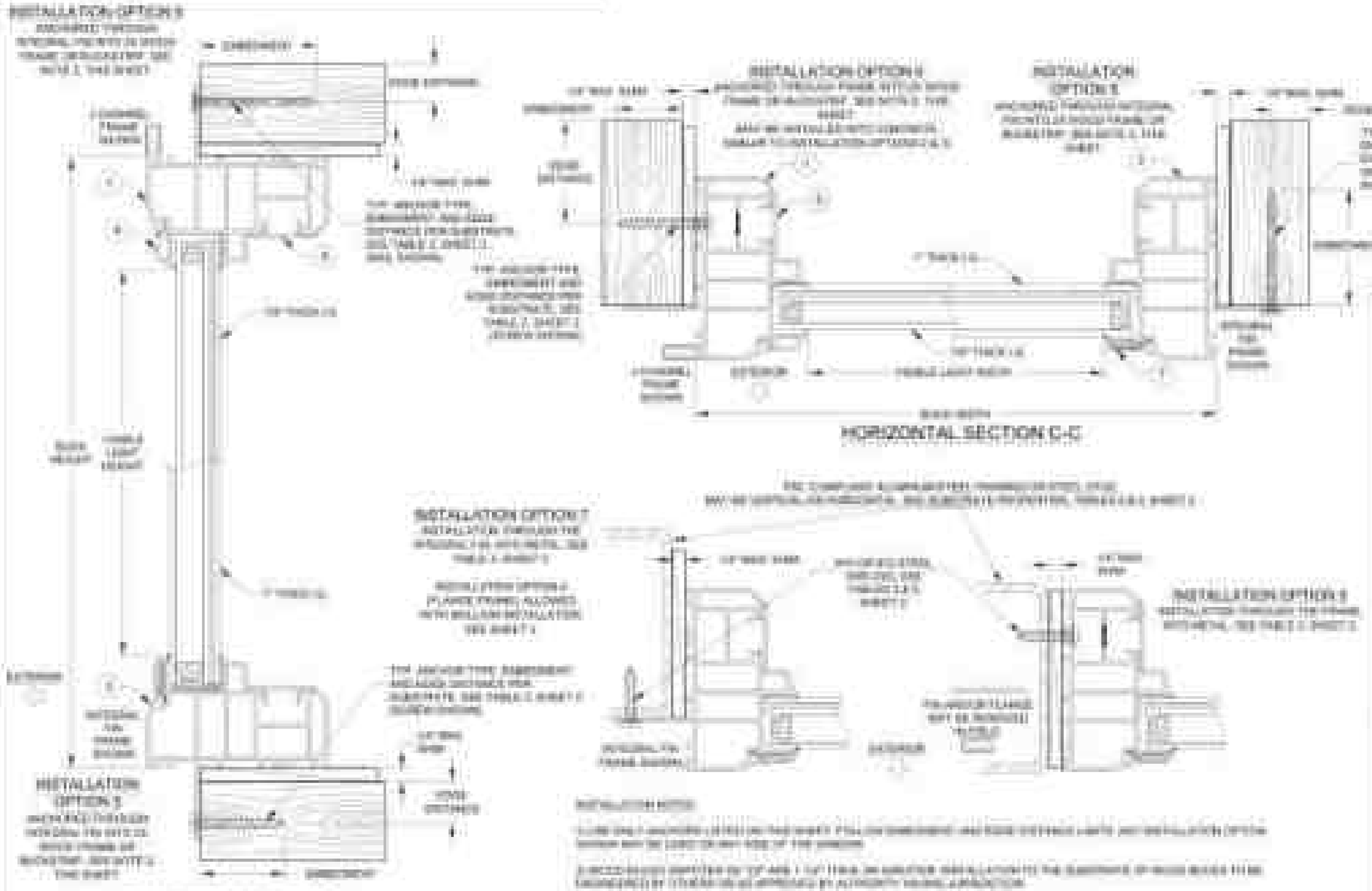
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INSTALLATION DETAILS FOR FLANGE & EQUAL-LEG/BOX FRAMES



INSTALLATION DETAILS FOR INTEGRAL FIN & J-CHANNEL FRAMES



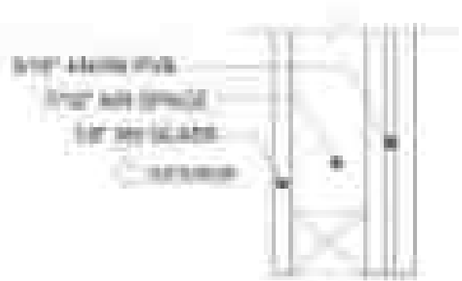
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VINYL FIXED CASEMENT WINDOW

INSTALLATION DETAILS

R5000

1 OF 11



GLASS TYPE 7



GLASS TYPE 8



GLASS TYPE 9



GLASS TYPE 10





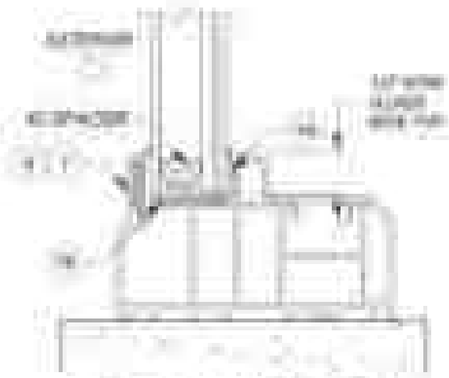
GLASS TYPE 11



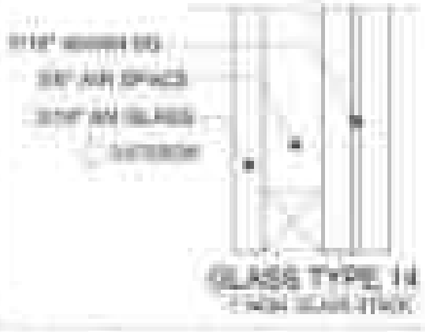
GLASS TYPE 12



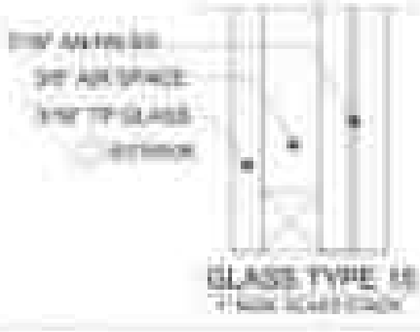
GLASS TYPE 13



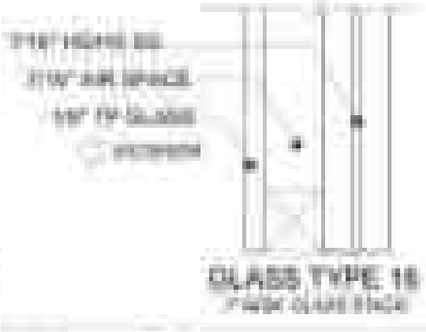
TYP. GLAZING DETAIL



GLASS TYPE 14



GLASS TYPE 15



GLASS TYPE 16



GLASS TYPE 17



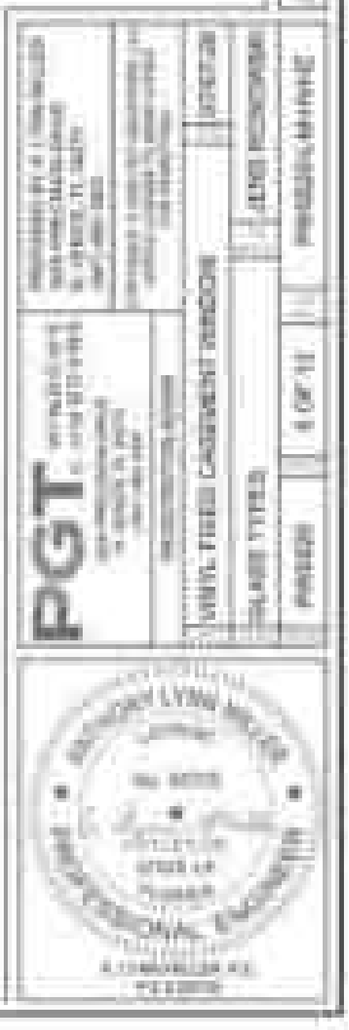


Table 2-1

Window Design Pressure (+/- psf)

"W" X Cup - Awning - 5/16" (V) with PVB

Glass Thickness	Up to 15	16	17	18	19	20	21	22	23	24	25	26
60												
72												
84												
96												
108												
120												
132												
144												
156												
168												
180												
192												
204												
216												
228												
240												
252												
264												
276												
288												
300												
312												
324												
336												
348												
360												

Table 2-2

Window Design Pressure (+/- psf)

"W" X Cup - Awning - 5/16" (V) with PVB

Glass Thickness	Up to 15	16	17	18	19	20	21	22	23	24	25	26
60												
72												
84												
96												
108												
120												
132												
144												
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228												
240												
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276												
288												
300												
312												
324												
336												
348												
360												



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1070 TECHNOLOGY DRIVE
NORTH VENICE, FL 34275

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SPECIFICATIONS

PW5000

4.27.11



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Window Design Pressure (+/- psf)														[illegible]	9 & 10
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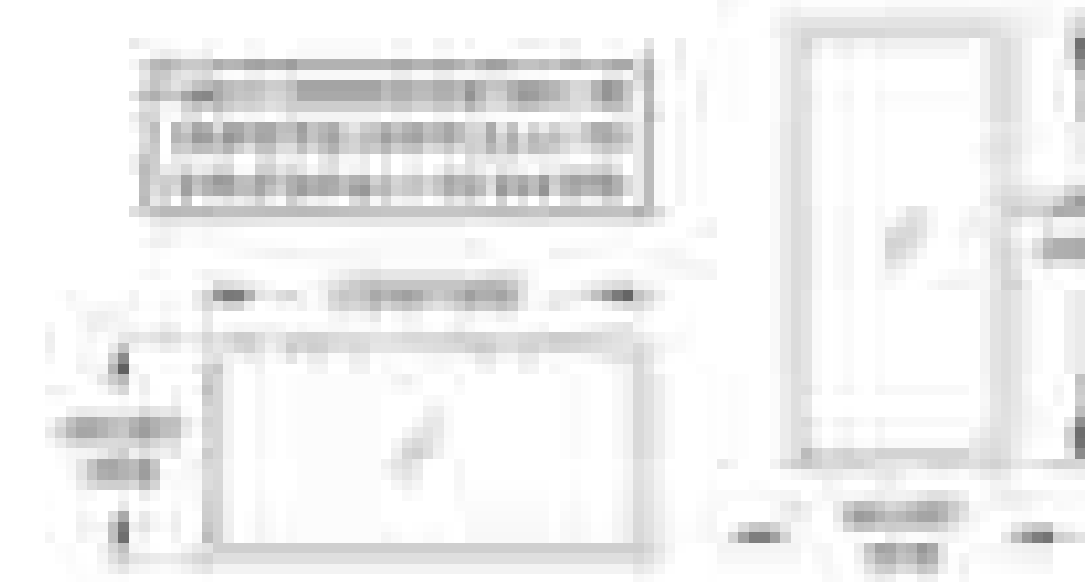
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Window Design Pressure (+/- psf)														[illegible]	11
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NOTES:
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VINYL FIXED CASEMENT WINDOW

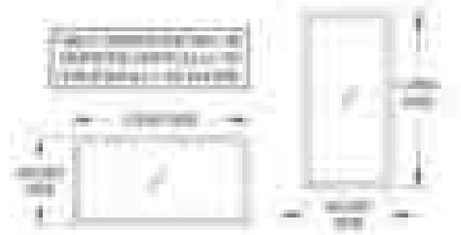
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Window Design Pressure, (+/-) psf

Mullion Type	Mullion Span	A	B	C	D	E	F	G	H	I	J	K	L
1	48												
2	60												
3	72												
4	84												
5	96												
6	108												
7	120												
8	132												
9	144												
10	156												
11	168												
12	180												
13	192												
14	204												
15	216												
16	228												
17	240												
18	252												
19	264												
20	276												
21	288												
22	300												
23	312												
24	324												
25	336												
26	348												
27	360												
28	372												
29	384												
30	396												
31	408												
32	420												
33	432												
34	444												
35	456												
36	468												
37	480												
38	492												
39	504												
40 Max	516												

Window Design Pressure, (+/-) psf

Mullion Type	Mullion Span	A	B	C	D	E	F	G	H	I	J	K	L
1	48												
2	60												
3	72												
4	84												
5	96												
6	108												
7	120												
8	132												
9	144												
10	156												
11	168												
12	180												
13	192												
14	204												
15	216												
16	228												
17	240												
18	252												
19	264												
20	276												
21	288												
22	300												
23	312												
24	324												
25	336												
26	348												
27	360												
28	372												
29	384												
30	396												
31	408												
32	420												
33	432												
34	444												
35	456												
36	468												
37	480												
38	492												
39	504												
40 Max	516												



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Window Design Pressure, (+/- psf)

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Window Design Pressure, (+/- psf)

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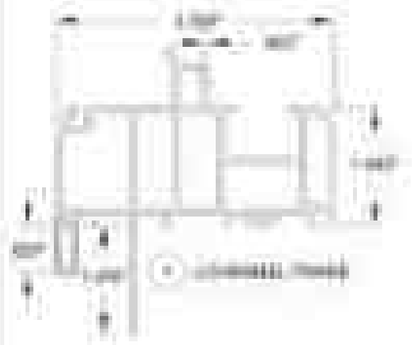
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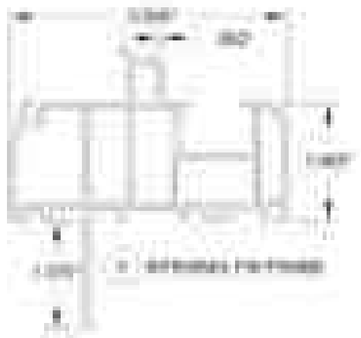
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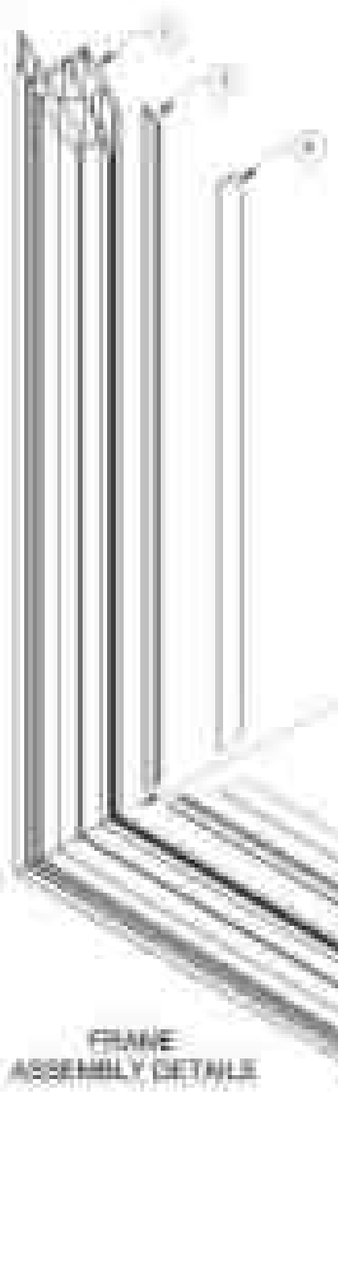












FRAME
ASSEMBLY DETAILS

#	Part #	Description	Material
1	025012	Universal Frame	PVC
2	025016	Flange Frame	PVC
3	027114	Integral Fin Frame	PVC
4	027121	Fixed Leg/Rail Frame	PVC
5	025010	Active Cam	PVC
6	025007	7/8" Glazing Bead	PVC
7	025006	1" Glazing Bead	PVC
7A		Backbedding, DP 7700 or Dow 791 or Dow 995	Silicone
7B	710A001	Setting Block (7/8" x 3" x 1/8"), 85 +/- 5 duro	EPDM

PGT
INNOVATIONS
1070 TAMIAMI TRAIL NORTH
NOKOMIS, FLORIDA 34275
941-486-0600

CUSTOM FIXED CASEMENT WINDOW
FOR IMPACT EXTERIORS

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A CORPORATION
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