Engineering Evaluation Report # DH5560-08202026

Prepared by:
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N. Venice, FL 34275
(941) 480-1600
Florida Registration: #29296

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

Product Description:
DH5560 Series Impact-Resistant Vinyl Double Hung Window, (LMI), FL-7058

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 DH5560-LM-HVHZ, signed and sealed by A. Lynn Miller, P.E.
2. Test Report No.: FTL-8006, FTL-8007, FTL 19-9037 & 20-2107.1-4, signed and sealed by Idalmis Ortega, P.E.
Fenestration Testing Laboratories, Medley, FL 33166

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

3. Calculations, signed and sealed by A. Lynn Miller, P.E., dated 07/30/15 & 3/13/20.

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

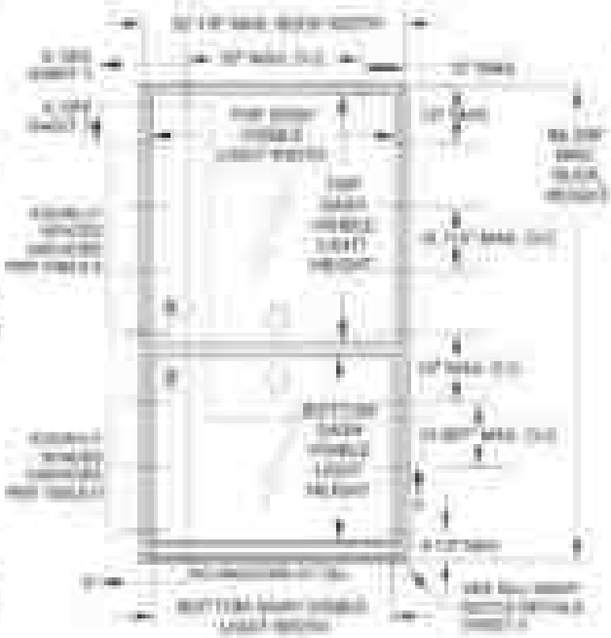
Limitations and Conditions of use:
• Units must be glazed per ASTM E1300-24, refer to approval document for glazing details.
• This product is rated to be used in the HVHZ.
• This product is impact resistant and does not require impact protection in wind borne debris regions.
• Frame and sash material to be extruded Vinyl.
• Units must be installed in accordance with approval document.



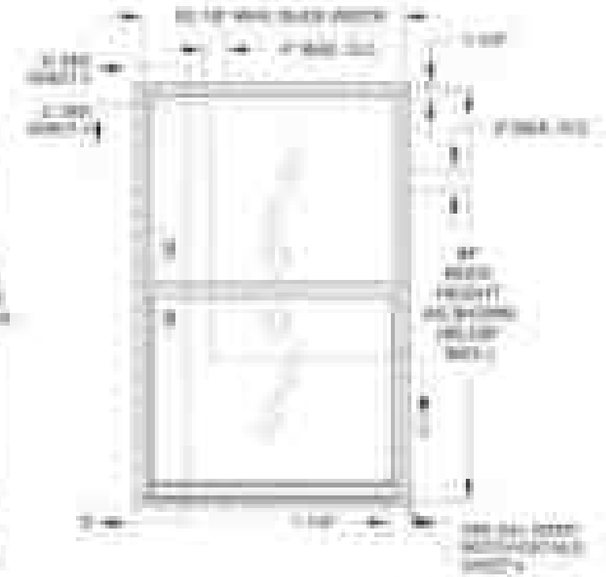
A. LYNN MILLER, P.E.
P.E.# 58705

SERIES DW900 - MONO-LAM
IMPACT RESISTANT DOUBLE HUNG WINDOW

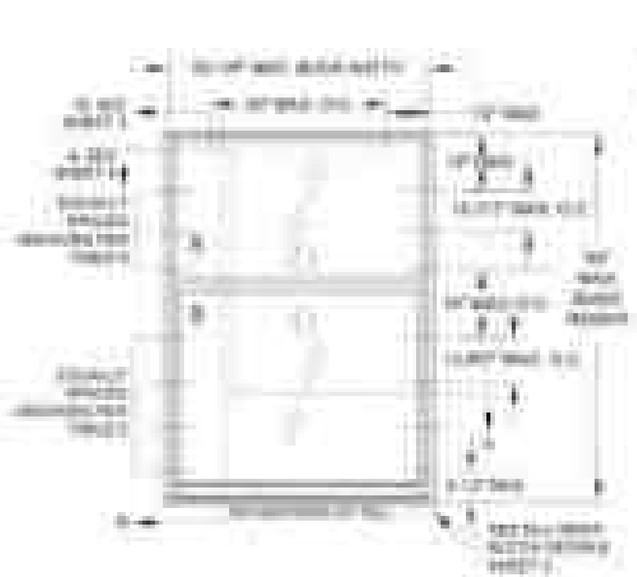
ELEVATION FOR TYP. EQUAL LEG FRAME
SHOWN WITH EQUAL LITE CONFIGURATION



ELEVATION FOR TYP. FLANGE FRAME
SHOWN WITH OWELP/PROVIEW CONFIGURATION



ELEVATION FOR TYP. FLANGE FRAME
SHOWN WITH STANDARD COTTAGE CONFIGURATION



ELEVATION FOR TYP. FIN OR J-CHANNEL FRAME
SHOWN WITH EQUAL LITE CONFIGURATION
ANCHORED THROUGH THE MAIL FIN

VISIBLE LIGHT FORMULAS

PGT

WINGUARD

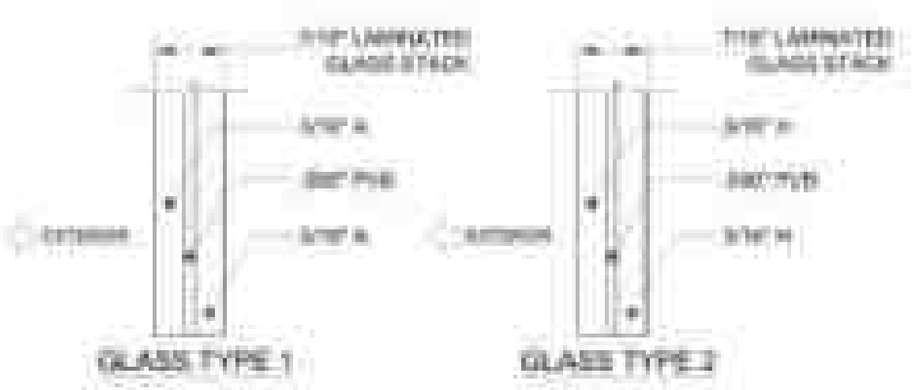
Glass Type	Description	Table #	Sheet #
1	[illegible]	4	5
2	[illegible]	4	5

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment
A	#12 SMS (Option Steel or 16ga. 0.5 in #10 SS)	Structural Pine (SG=0.55)	1"	1"
		Steel, 43ksi	1/2"	1/2"
		Steel Tube (HSS) 3/16" Thk	1/2"	1/2" (1/2 Thk)
		Aluminum, 6063-T6	1/2"	1/2"
	1/4" Steel Washer	Structural Pine (SG=0.55)	1"	1"
	1-1/4" #12 SS Screw	Structural Pine (SG=0.55)	1"	1"
	3/4" #12 SS Rapid Drive	Structural Pine (SG=0.55)	1"	1"
C	1/4" Rigid Washer	Concrete over 2" Deck	1-1/2"	1"
		Concrete over 2" Deck	1-1/2"	1"
	1-1/4" #12 SS Screw	Concrete over 2" Deck	1-1/2"	1"
D	1/4" Rigid Washer	Concrete over 2" Deck	1-1/2"	1"
		Concrete over 2" Deck	1-1/2"	1"
	1-1/4" #12 SS Screw	Concrete over 2" Deck	1-1/2"	1"
		Concrete over 2" Deck	1-1/2"	1"
	3/4" #12 SS Rapid Drive	Concrete over 2" Deck	1-1/2"	1"
		Concrete over 2" Deck	1-1/2"	1"

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment
1	1-1/2" Ringshank Screw (#8)	Southern Pine (SG=0.55)	3/8"	1-1/2"
	#12 SMS (Option Steel or 16ga. 0.5 in #10 SS)	Southern Pine (SG=0.55)	1/2"	1-3/8"
		Aluminum, 6063-T6	3/8"	0.150"
		Steel Tube, 0.1"	3/8"	0.150" (0.1" Thk)
		Steel, 12GA	3/8"	0.135"
	#12 SMS (Option Steel or 16ga. 0.5 in #10 SS)	Southern Pine (SG=0.55)	5/16"	1-1/4"
		Aluminum, 6063-T6	3/8"	0.150"
		Steel Tube, 0.1"	3/8"	0.150"
		Steel, 12GA	3/8"	0.135"







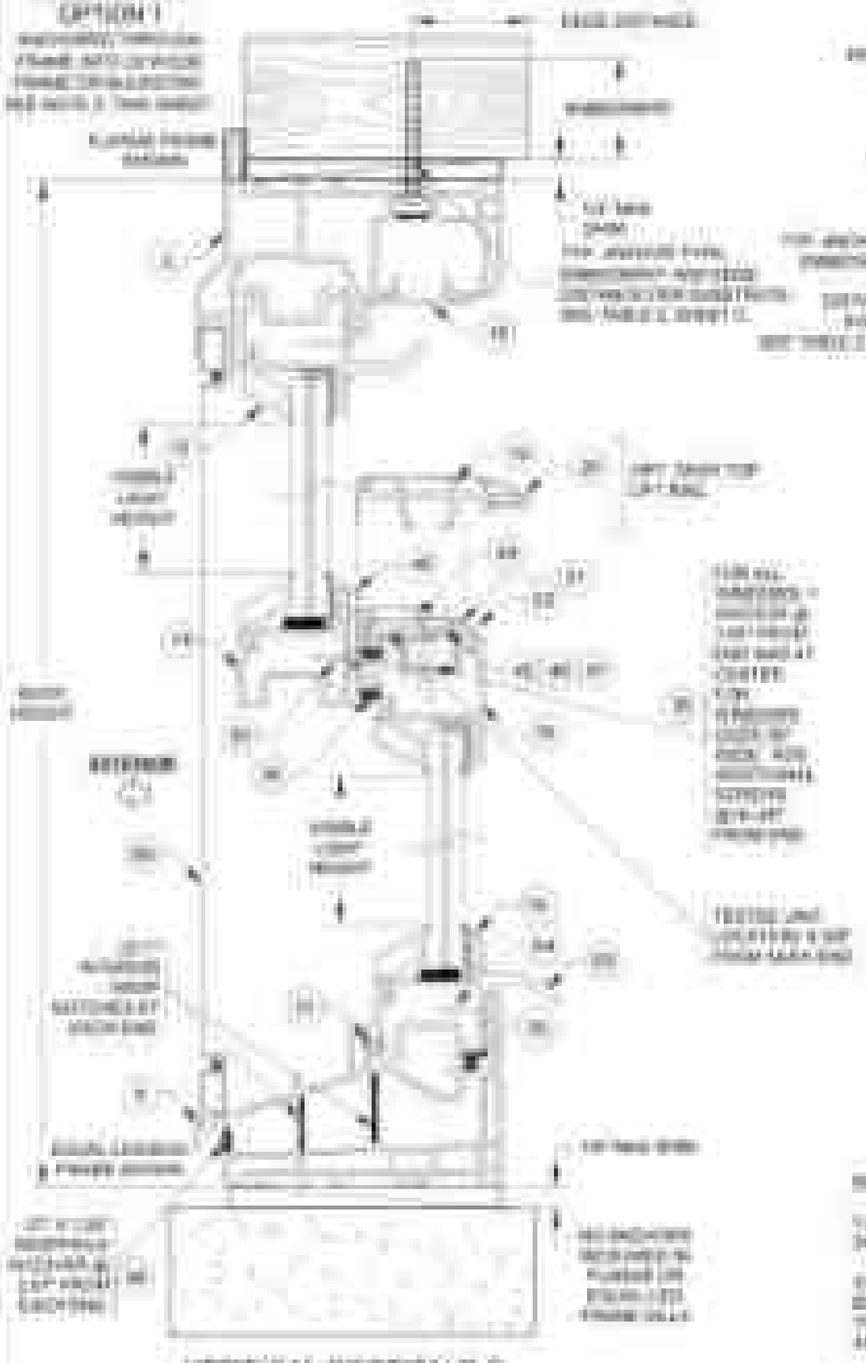
USER INSTRUCTIONS

NOTE:

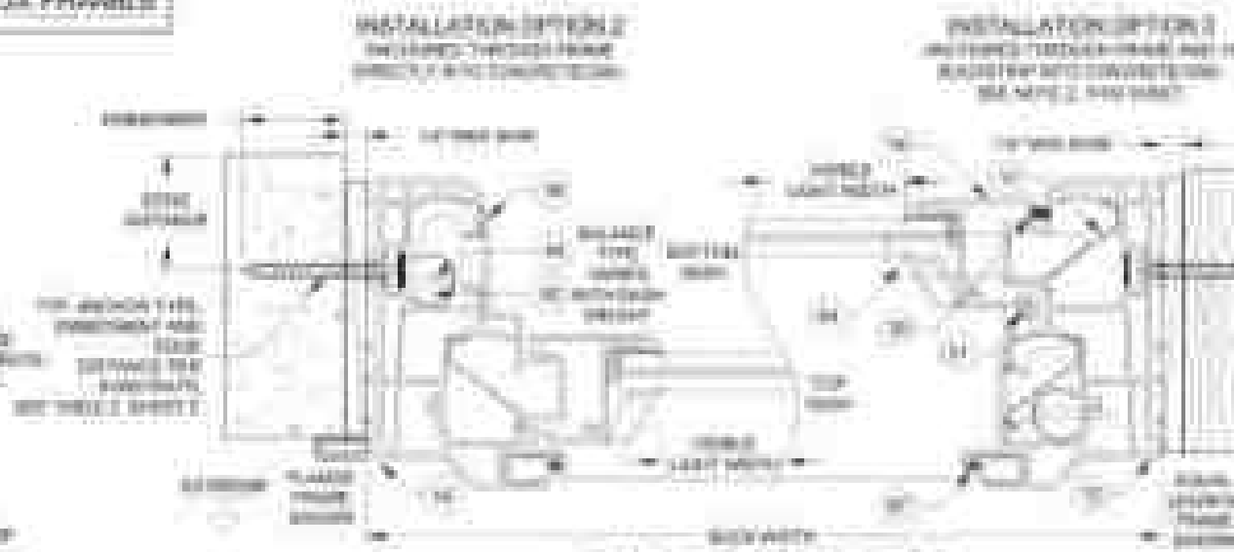
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STATE OF FLORIDA

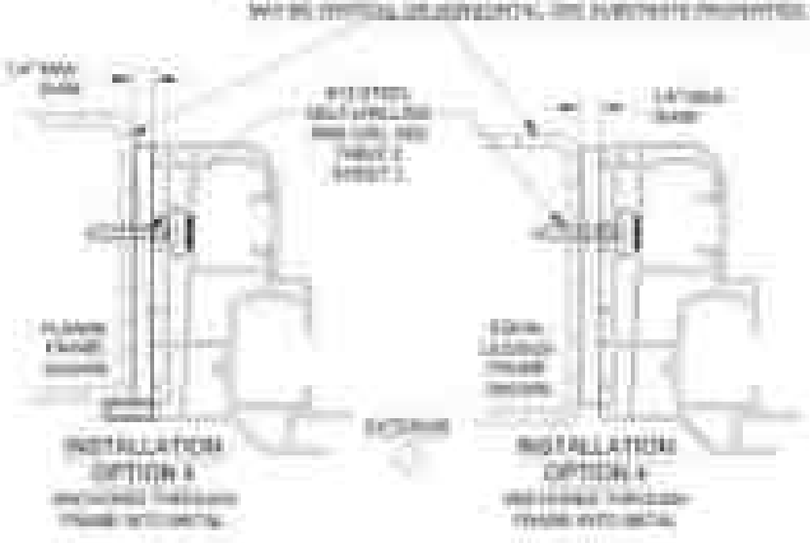
INSTALLATION DETAILS FOR FLANGE & EQUAL-LEG/BOX FRAMES



VERTICAL SECTION B-B



HORIZONTAL SECTION A-A

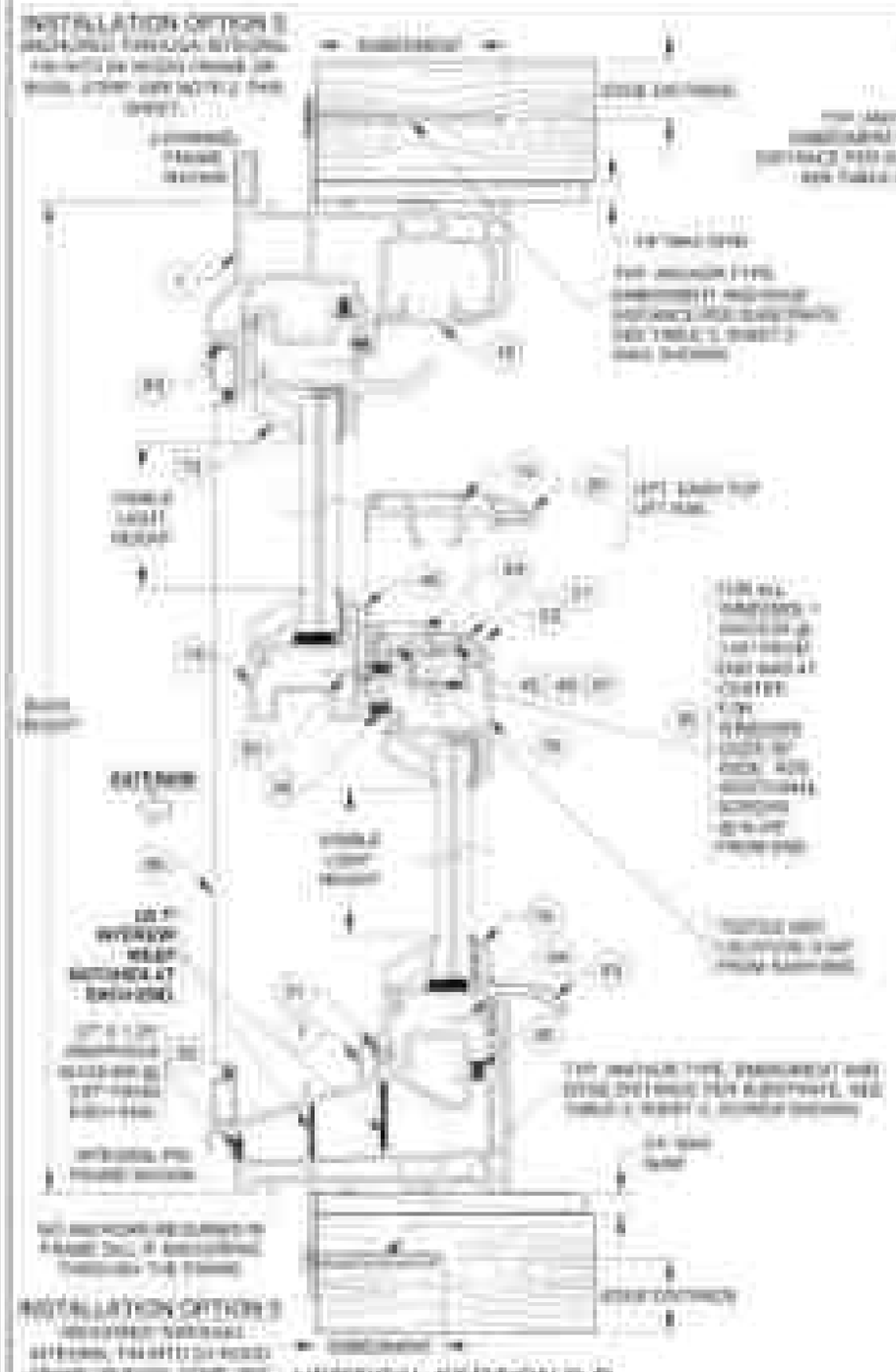


INSTALLATION OPTION 4

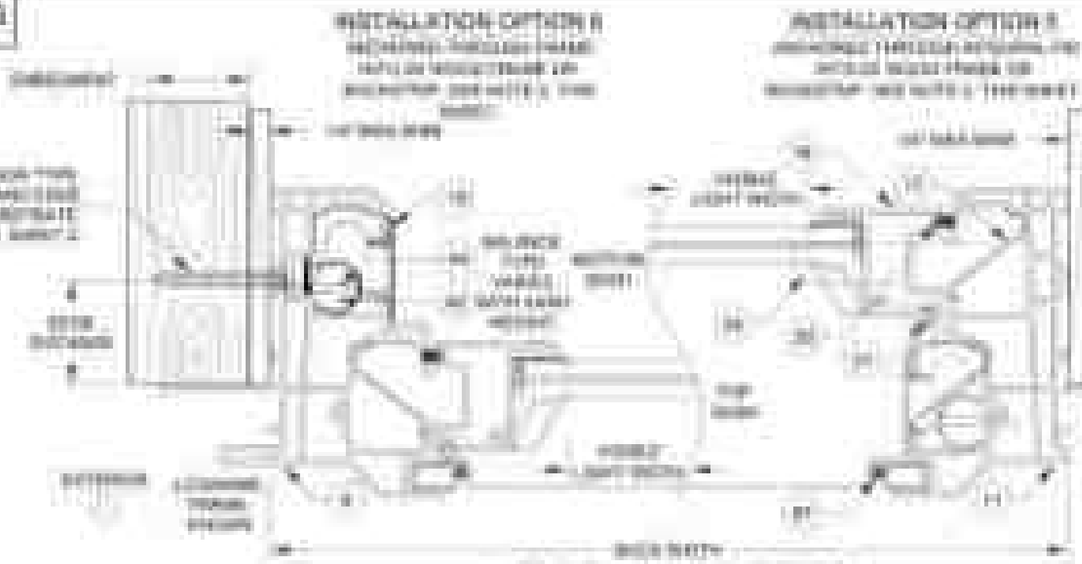
INSTALLATION OPTION 4

PGT

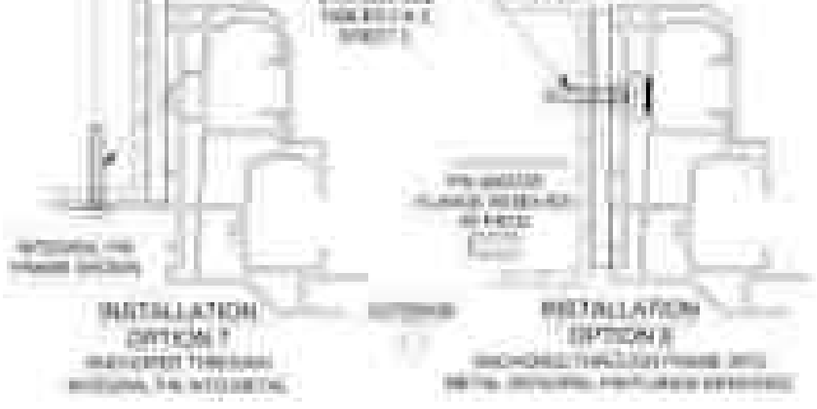
INSTALLATION DETAILS FOR INTEGRAL FIN & J-CHANNEL FRAMES



VERTICAL SECTION D-D



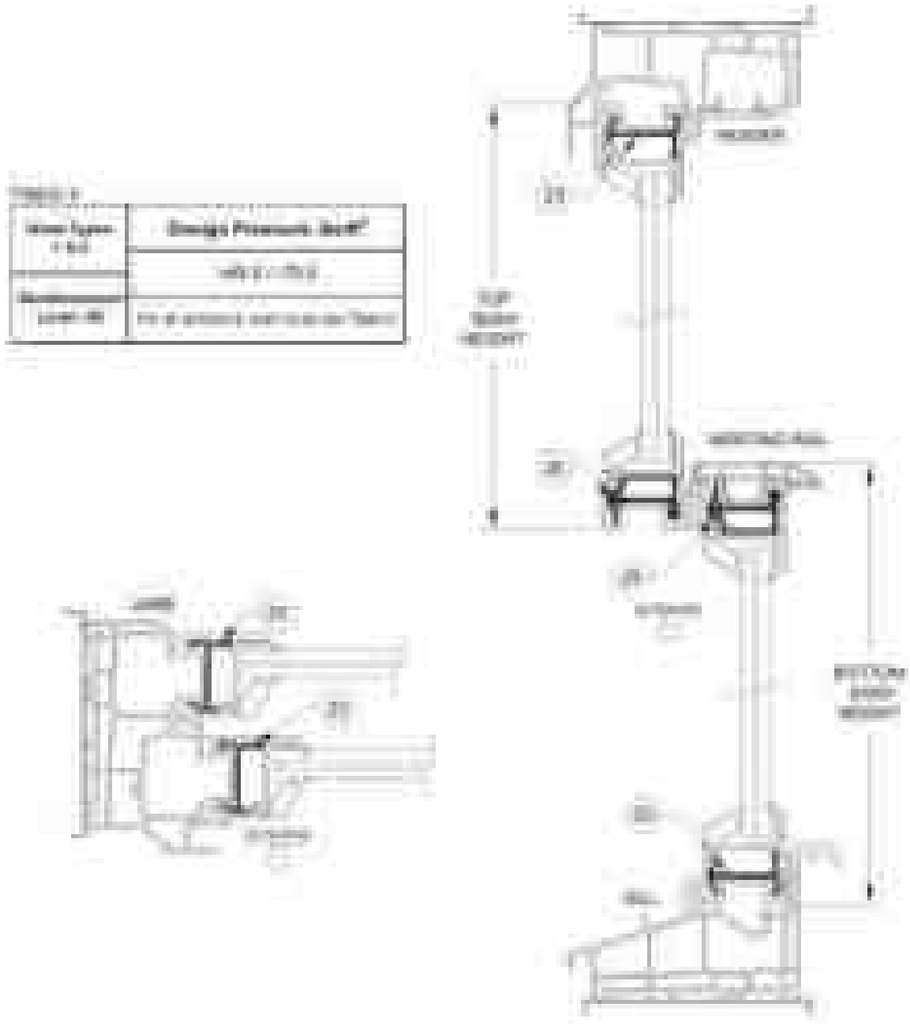
HORIZONTAL SECTION C-C



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SET INTEGRAL FIN & J-CHANNEL

Wind Speed V (3s gust)	Design Pressure (lb/ft²)



SECTION DETAIL FOR WINDOWS WITH
LEVEL IV REINFORCEMENT

NOTES:

PGT INDUSTRIES
1070 TECHNOLOGY DRIVE
NORTH VENICE, FL 34275

STATE OF FLORIDA
PROFESSIONAL ENGINEER

TABLE 1

Design Maximum Deflection
Single Pane / Laminate

Glass Type & Nominal Thickness (inches)	Actual Glass Thickness (inches)	Glass Weight (psf)	15 psf		20 psf		25 psf		30 psf		35 psf		40 psf		45 psf		50 psf		55 psf		60 psf	
			L	W	L	W	L	W	L	W	L	W	L	W	L	W	L	W	L	W	L	W
3																						
3/16																						
1/4																						
5/16																						
3/8																						
7/16																						
1/2																						
9/16																						
5/8																						
3/4																						
7/8																						
1																						

** SEE NOTES ON SHEET 2 FOR ADDITIONAL INFORMATION

Max. Design PG1 Glass per Impact PG1 Installation	

NOTES:

1. USE THE ABOVE TABLE FOR ALL PGT IMPACT WINDOWS AND SLIDING DOORS.
2. USE THE ABOVE TABLE FOR ANCHORS AND SLIDES THROUGH THE INTERIOR FRAME.
3. ALL GLASS SHALL BE FULLY TEMPERED.
4. ALL GLASS SHALL BE INSULATING GLASS UNITS WITH A MINIMUM OF 1/2" AIR SPACE.
5. REFER TO TABLE 2 & 3, SHEET 2 FOR ANCHOR GROUP DESCRIPTIONS.

PGT INDUSTRIES
1070 TECHNOLOGY DRIVE
NORTH VENICE, FL 34275
(941) 486-0594

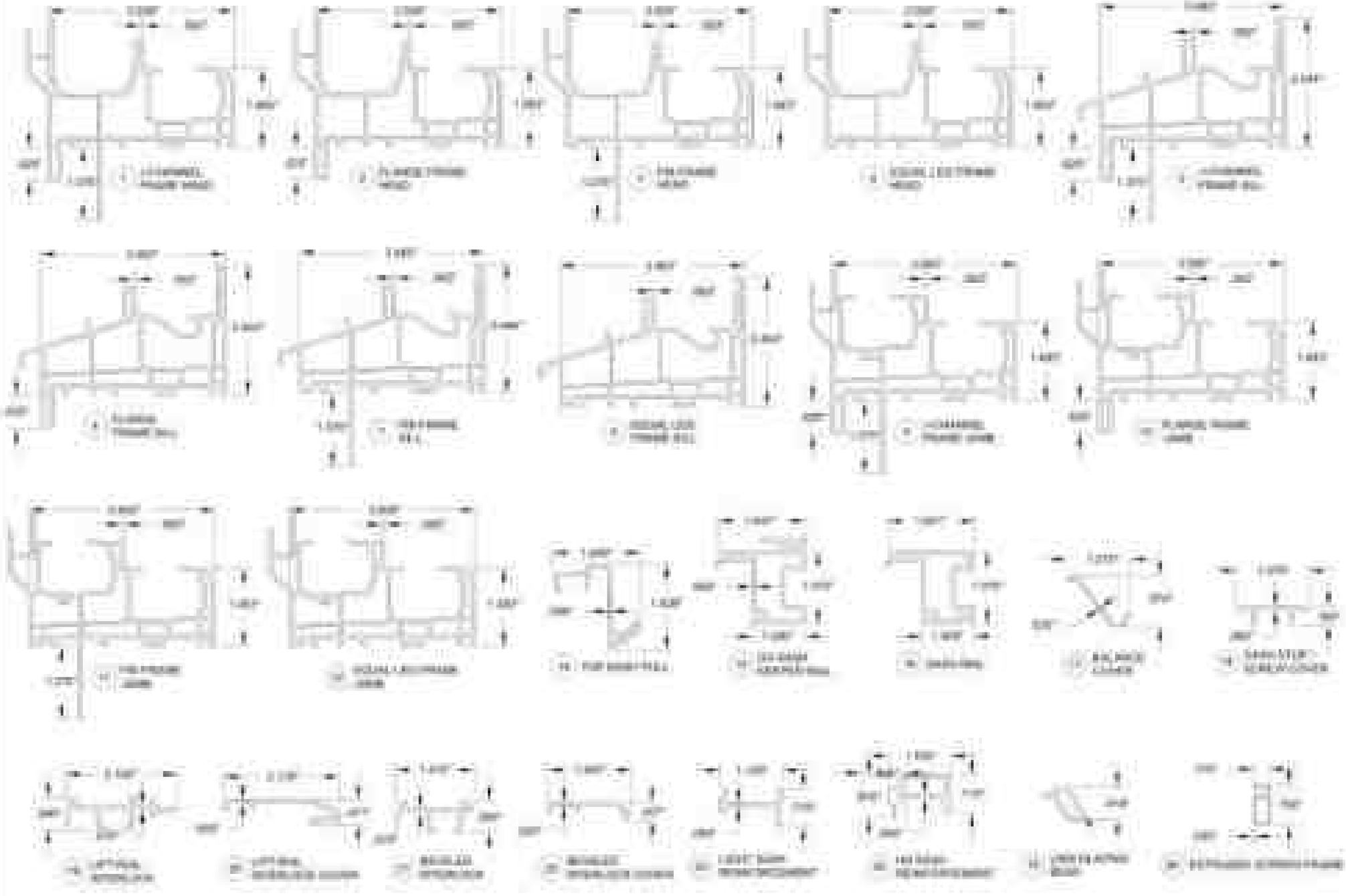
PGT WINGUARD IMPACT

SGD 2000 SERIES

F.A.S.

08/08

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REGISTERED
PROFESSIONAL ENGINEER
No. 62705



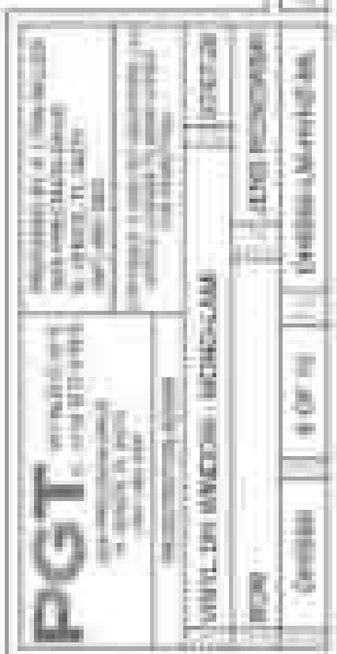
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Bill of Material

#	Part #	Description	Material
1	[illegible]	Frame Rail - 2 Chamber	PVC
2	[illegible]	Frame Rail - Flange	PVC
3	[illegible]	Frame Rail - Fin	PVC
4	[illegible]	Frame Rail - Expander/Glaz	PVC
5	[illegible]	Frame Sill - 3 Chamber	PVC
6	[illegible]	Frame Sill - Flange	PVC
7	[illegible]	Frame Sill - Fin	PVC
8	[illegible]	Frame Sill - Expander/Glaz	PVC
9	[illegible]	Frame Jamb - 2 Chamber	PVC
10	[illegible]	Frame Jamb - Flange	PVC
11	[illegible]	Frame Jamb - Fin	PVC
12	[illegible]	Frame Jamb - Expander/Glaz	PVC
13	[illegible]	Sill Nose Cover (Right)	PVC
14	[illegible]	Weeper Kit	PVC
15	[illegible]	Sash Rail (Glass Support Bottom)	PVC
16	[illegible]	Sash Stile	PVC
17	[illegible]	Meeting Rail	PVC
18	[illegible]	Sash Top/Bottom Cover	PVC
19	[illegible]	Lift Rail Meeting Rail	[illegible]
20	[illegible]	Lift Rail Meeting Rail Cover	PVC
21	[illegible]	Sash Lift Cover	[illegible]
22	[illegible]	Sash Fin Lock Cover	PVC
[illegible]	[illegible]	Sash Nail Fin Retaining	[illegible]
24	[illegible]	Lift Rail Reinforcement	[illegible]
25	[illegible]	Head Reinforcement 90° x .090" Fin Fin	
26	[illegible]	Jamb Reinforcement 90° x .090" Fin/Fin	
27	[illegible]	Jamb Reinforcement 90° x .125" Fin/Fin	
28	[illegible]	Jamb Reinforcement 90° x .125" Fin/Fin	
29	[illegible]	Sill Reinforcement 90° x .125" Flange	
30	[illegible]	#8 x 1" SS, Pan [illegible] Screw	SS
31	[illegible]	Anchor Head Cover	PVC
32	[illegible]	Sill Leg Reinforcement Plate	PVC
33	[illegible]	Compression Spring Balance	
34	[illegible]	#8 x 3/4" SS, Pan [illegible] Cam Force Balance Screw	SS
35		Spacer Washer	
36	[illegible]	Spacer Washer Screw	Nylon
37	[illegible]	#8 x 1-1/4" SS, Pan [illegible] Spacer Balance Screw	SS
38	[illegible]	Sash Lock Mechanism	Steel
39	[illegible]	Keeper Lock	Cast Zinc
40	[illegible]	Sash Lock Cover Assembly	Cast Zinc
41	[illegible]	#8 x 1-1/2" SS, Pan [illegible] Sash Lock Screw	SS

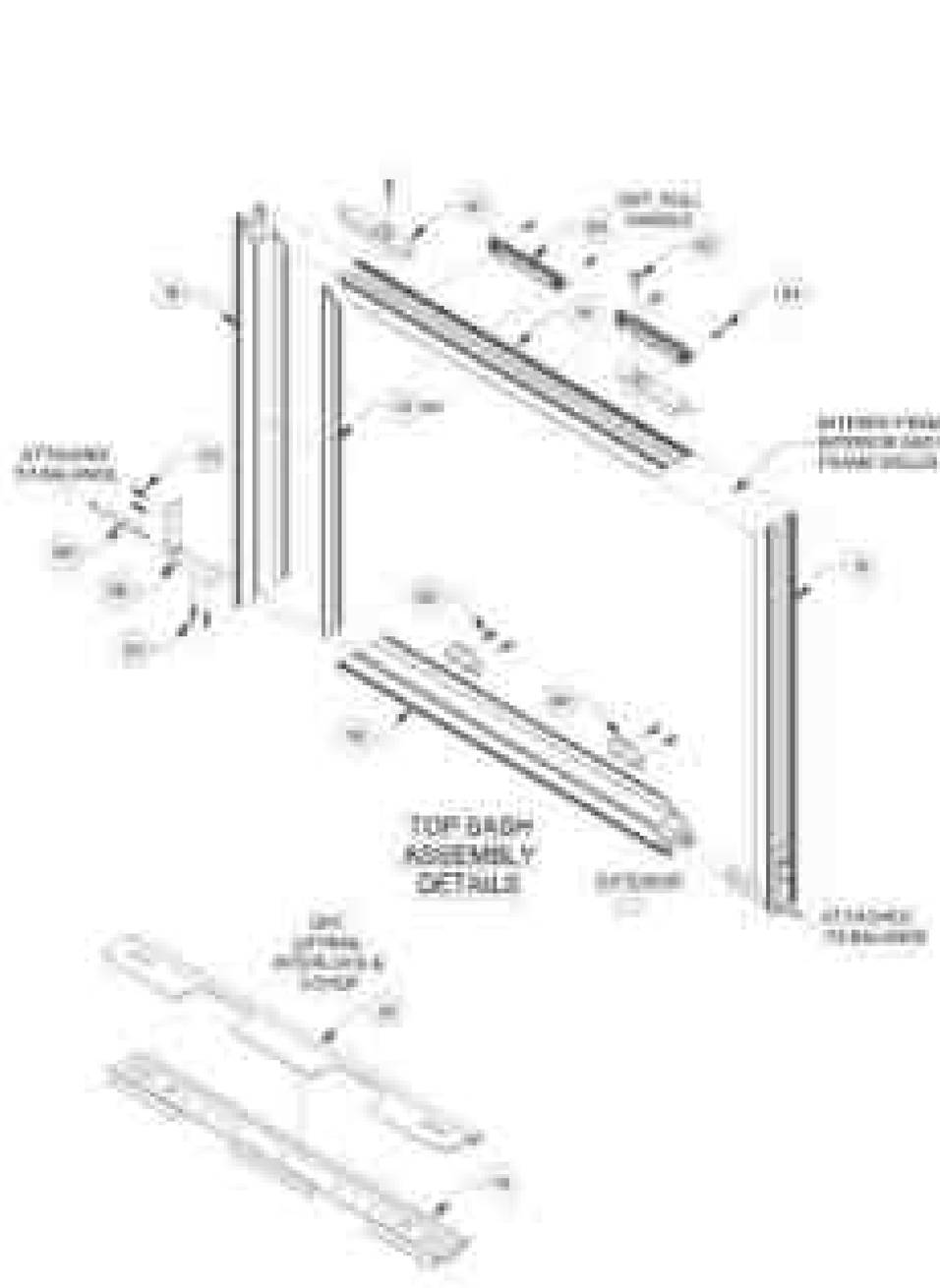
Bill of Material (cont.)

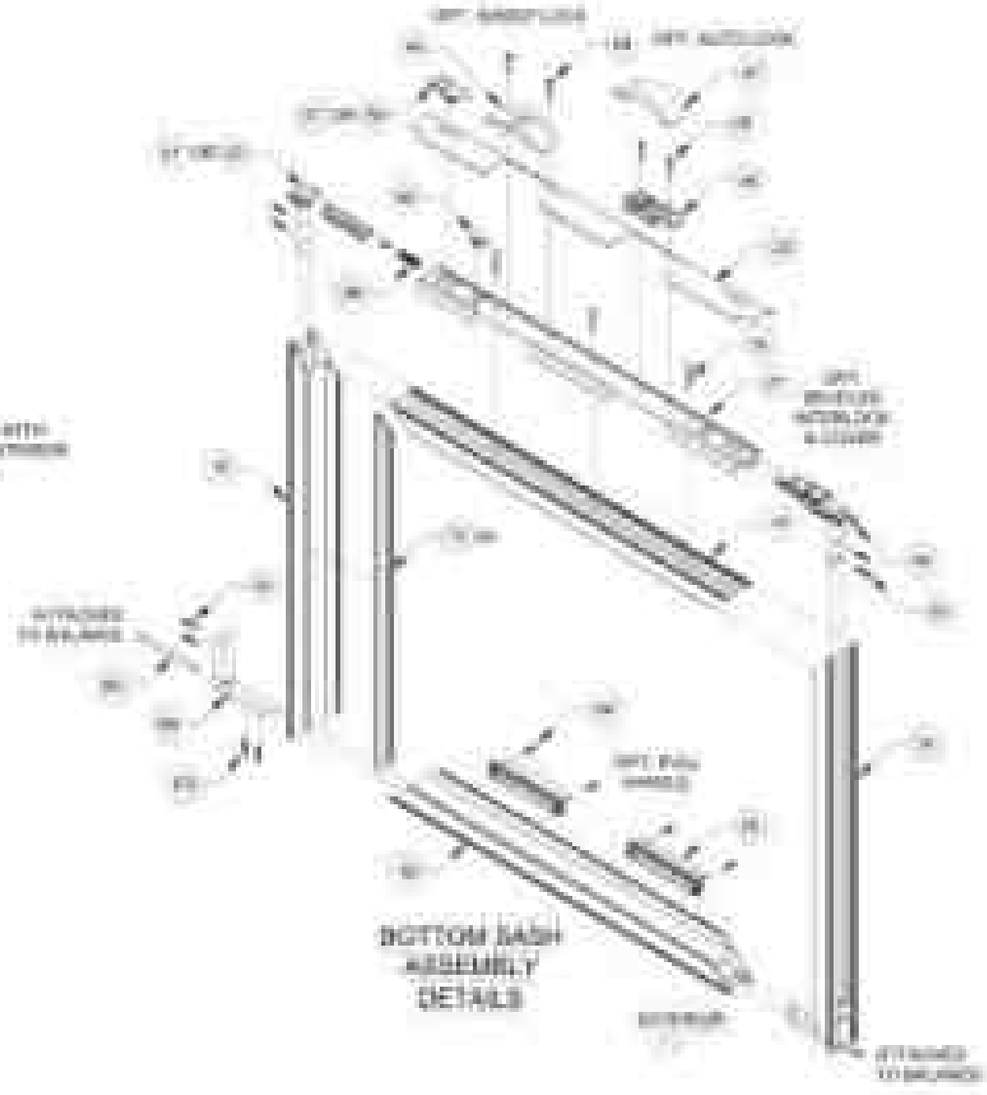
#	Part #	Description	Material
42	[illegible]	Sash Lock Keeper	Cast Zinc
43	[illegible]	#8 x 1/2" SS, Pan [illegible] Keeper Screw	SS
44	[illegible]	Sash Lock Cover Key	Nylon
45	[illegible]	Sash Lock Cover Locking Pin	PVC
46	[illegible]	#8 x 1/2" SS, Pan [illegible] Sash Lock Screw	SS
47	[illegible]	Tilt Latch	Steel
48	[illegible]	Tilt Latch Retainer	PVC
49	[illegible]	Tilt Latch Spring	SS
50	[illegible]	Plastic Tilt Latch Finger Cap	Nylon
51	[illegible]	Metal Tilt Latch Finger Cap	Cast Zinc
52	[illegible]	Sash Tilt Latch Cover Key Pad & Screw Cover	PVC
53	[illegible]	Keep Bar Clip & Screw Cover	SS
54	[illegible]	Tilt Latch Bar Engage Cover	PVC
55	[illegible]	#8 x 1" SS, Pan [illegible] Tilt Latch Screw	SS
56	[illegible]	Sash Weatherstrip	EPDM Co
57	[illegible]	#8 x 1/2" SS, Pan [illegible] Cover Screw	SS
58	[illegible]	Lens Retaining Bead	PVC
59		Glass Package (1" Overall)	Glass
60		Glazing Bead (1/4" x 1/4" x 45°)	EPDM
61	[illegible]	Insulated Spacer Frame	Alum
62	[illegible]	Insulated Lower Extrusion Bar	Alum
63	[illegible]	Insulated Glass Interlock Extrusion	PVC
64	[illegible]	Insulated Glass Extrusion Bar (Fin)	Alum
65	[illegible]	Insulated Glass Locking	PVC
66	[illegible]	Insulated Glass	Plexiglass
67	[illegible]	1/2" Screen Frame (Not on Hung Units)	Alum





NOTES
1) [illegible]
2) [illegible]
3) [illegible]
4) [illegible]
5) [illegible]

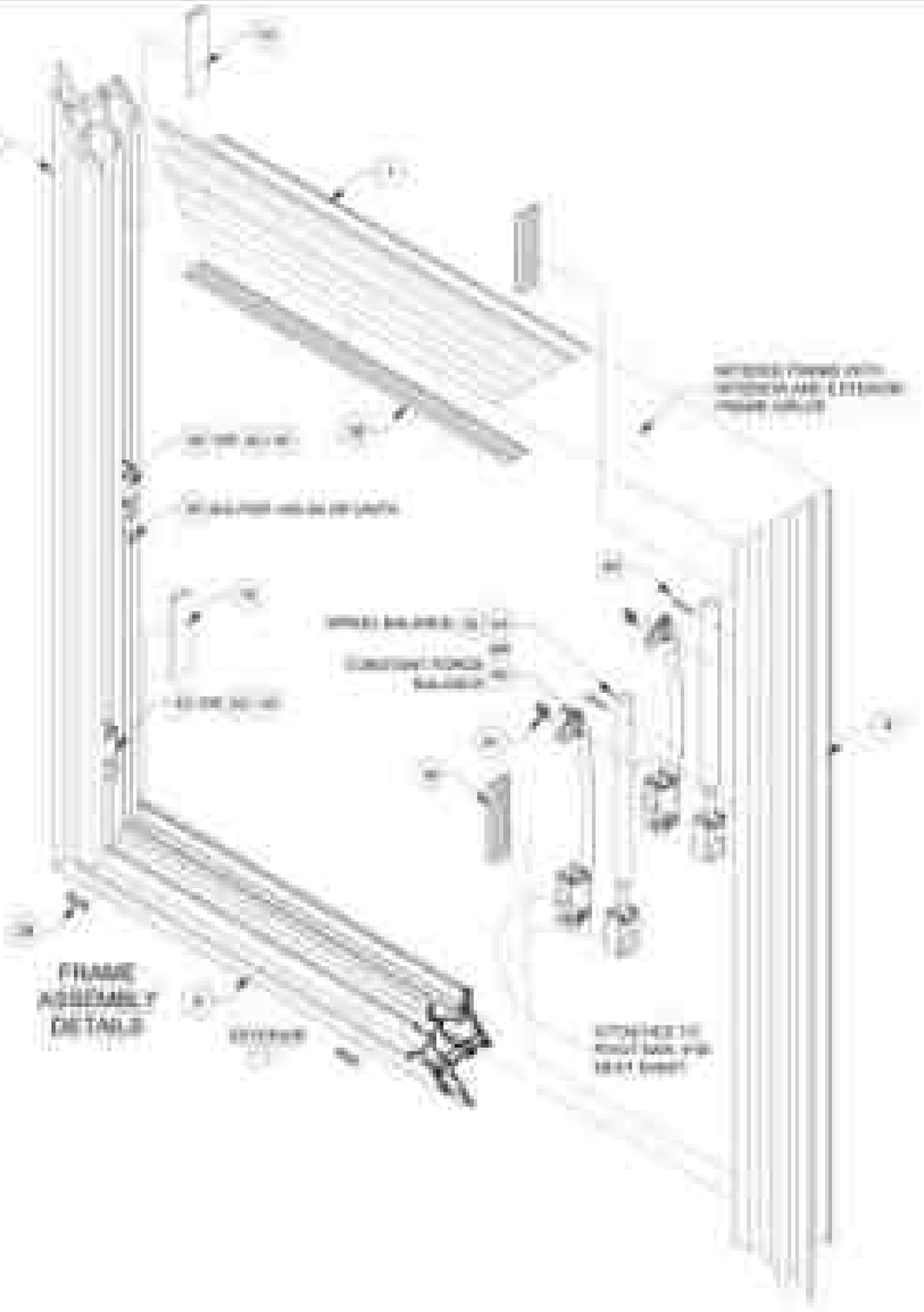




PGT

ASSEMBLY DETAILS





FRAME ASSEMBLY DETAILS



SCREEN ASSEMBLY DETAILS

PGT

ASSEMBLY & PARTS LIST

