Engineering Evaluation Report # SH5500-20200909

Prepared by:
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N. Venice, FL 34275
(941) 480-1600
Certificate of Authorization: #29296

Manufacturer:
PGT Industries, Inc.
1070 Technology Drive
North Venice, FL 34275

Product Description:
SH5500 Series Impact-Resistant Vinyl Single Hung Window, (LMI), FL-29698

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 SH5500 LAMI – REV B, signed and sealed by A. Lynn Miller, P.E.
2. Test Report No.: FTL-7964, FTL-7966, FTL 19-9037 & 20-2107.1.4, signed and sealed by Idalmis Ortega, P.E.
Fenestration Testing Laboratories, Medley, FL 33166

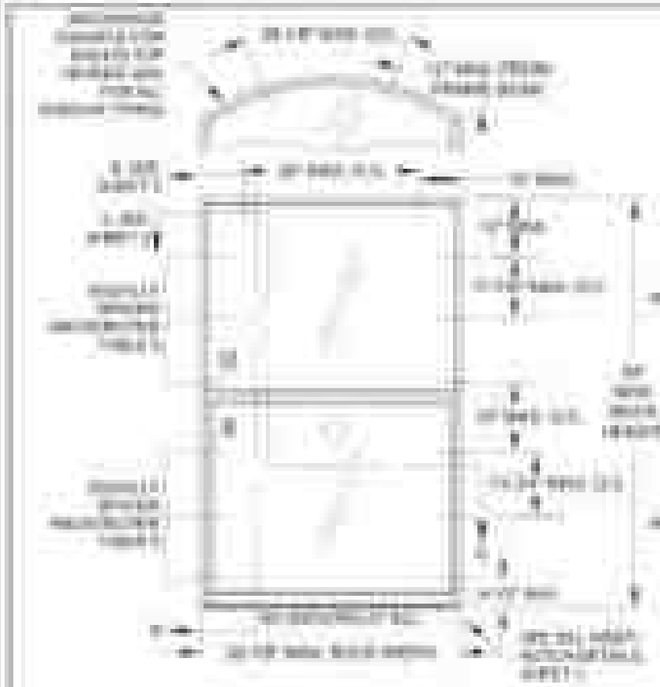
TAS 201-94 Large Missile Impact Test
TAS 202-94 Uniform Static Air Pressure Test
TAS 203-94 Cyclic Pressure Loading Test

3. Calculations, signed and sealed by A. Lynn Miller, P.E., dated 05/15/15 & 05/13/20.

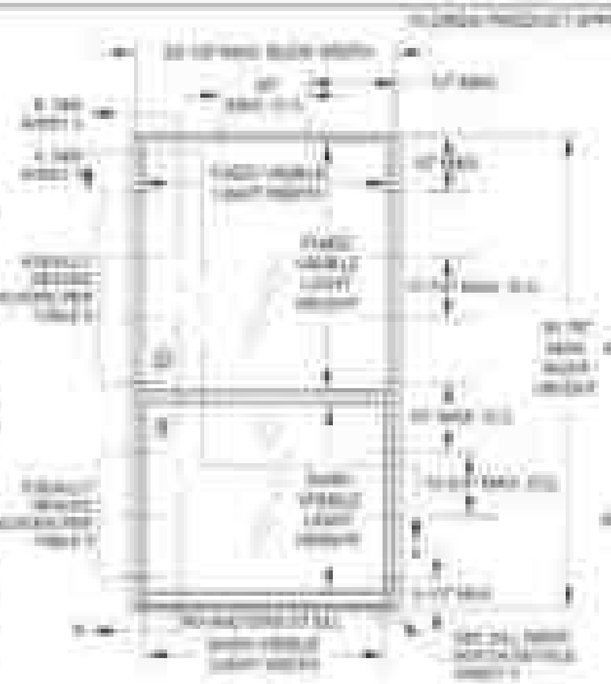
4. Miami-Dade RER Product Control Section NOA’s; PVB Interlayer by Kuraray America, Inc.

Limitations and Conditions of use:
• Units must be glazed per ASTM E1300-09, 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 sash material to be extruded Vinyl.
• Units must be installed in accordance with approval document, SH5500 LAMI.

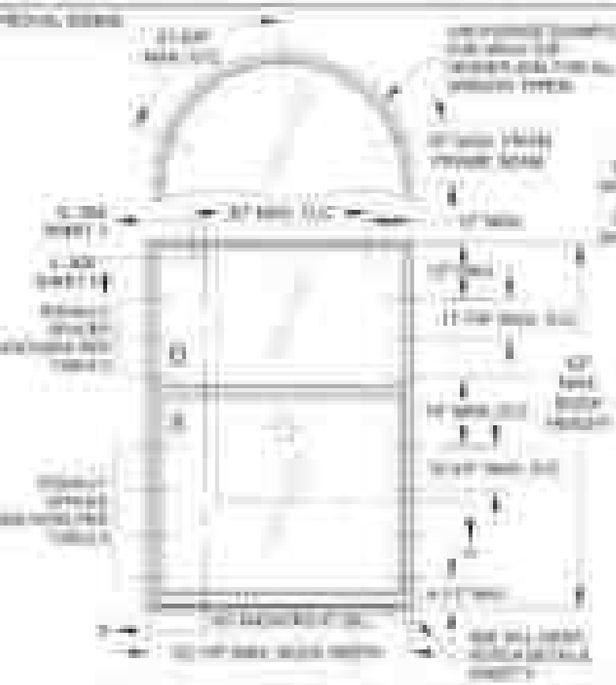




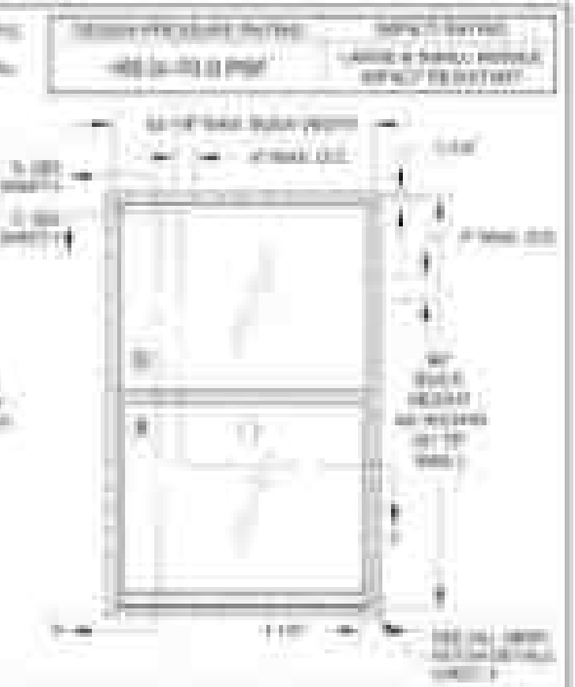
ELEVATION FOR TYP. EQUAL LITE FRAME
SHOWN WITH EQUAL LITE CONFIGURATION



ELEVATION FOR TYP. FLANGE FRAME
SHOWN WITH GRILLE/MUNTIN CONFIGURATION



ELEVATION FOR TYP. FLANGE FRAME
SHOWN WITH STANDARD COTTAGE CONFIGURATION



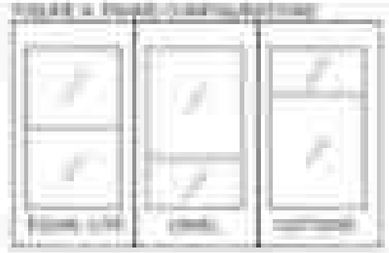
ELEVATION FOR TYP. FIN OR J-CHANNEL FRAME
SHOWN WITH EQUAL LITE CONFIGURATION
ANCHORED THROUGH THE NAIL FIN

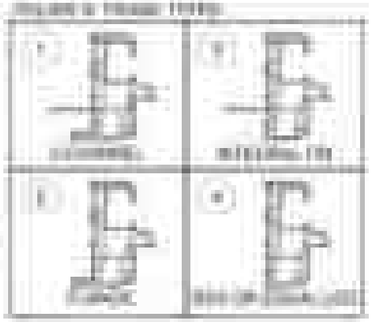
SERIES 2500 IMPACT RESISTANT SINGLE HUNG WINDOW

USER INSTRUCTIONS:

VINYL SINGLE HUNG WINDOW (IMP)					DRAWING
GENERAL NOTES & ELEVATIONS					E-SERIES
TRIM FAB/FLANGE NOTE - EF					DRAWING
SHEET	1 OF 5		SHEET LIMIT		0

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



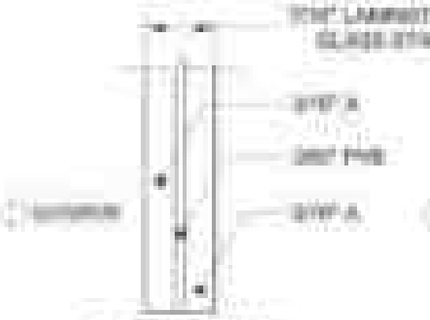


Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
A	#10 Hex. [illegible]	[illegible]	[illegible]	[illegible]
	5/16" Hex Washer	[illegible]	[illegible]	[illegible]
B	#10 HWH [illegible]	[illegible]	[illegible]	[illegible]
	5/16" Hex Washer	[illegible]	[illegible]	[illegible]
C	1/4" Hex Washer	[illegible]	[illegible]	[illegible]
D	1/4" Hex Washer	[illegible]	[illegible]	[illegible]

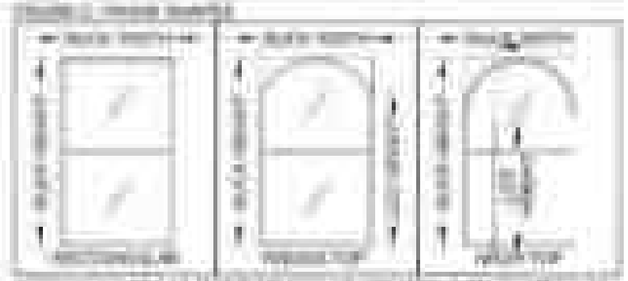
*[illegible]

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
F	1/4-20 Pan Head Machine Screw	[illegible]	[illegible]	[illegible]
	#10 Stainless Steel Hex Washer Head Self-Drilling Screw [illegible]	[illegible]	[illegible]	[illegible]
	#10 Stainless Steel Pan Head Self-Drilling Screw [illegible]	[illegible]	[illegible]	[illegible]

*[illegible]





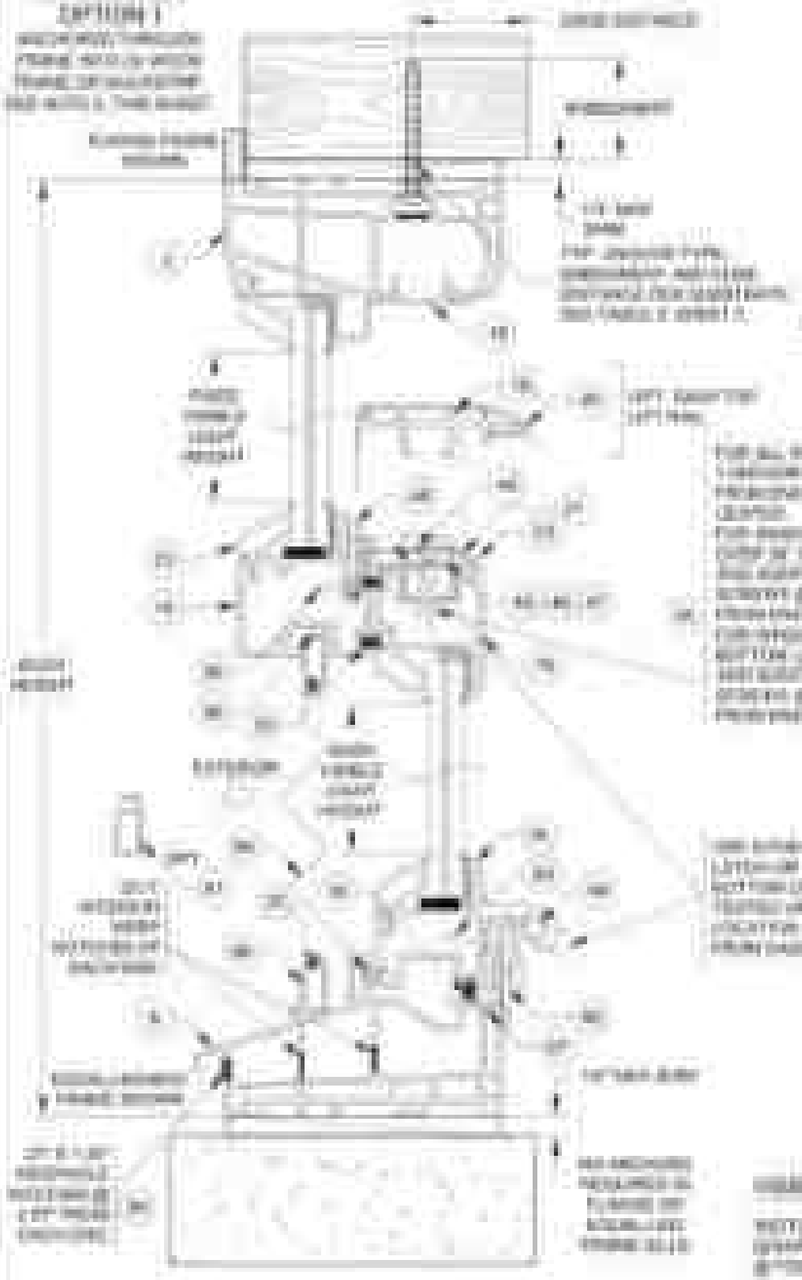




PGT	[illegible]		
VINYL SINGLE HUNG WINDOW (LW)			DESIGN 14
GLASS/ANCHOR/FRAME OPTIONS			E #2592
PREMIER ULTRACON ANCHORS - LP			10/19/22
04-0300	2 OF 5	[illegible]	[illegible]

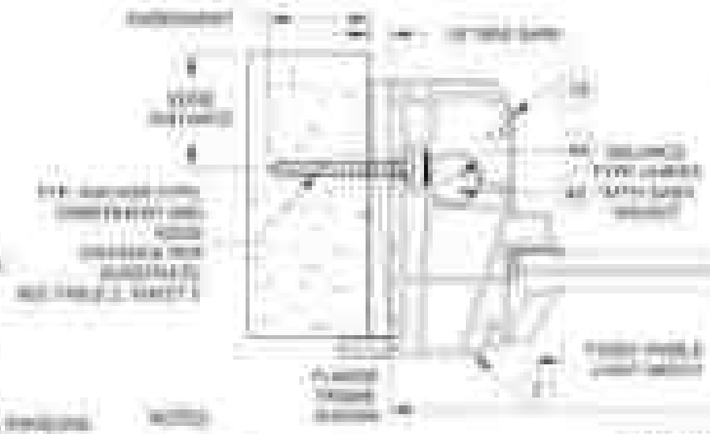
INSTALLATION DETAILS FOR FLANGE & EQUAL-LEGBOX FRAMES

INSTALLATION OPTION 1

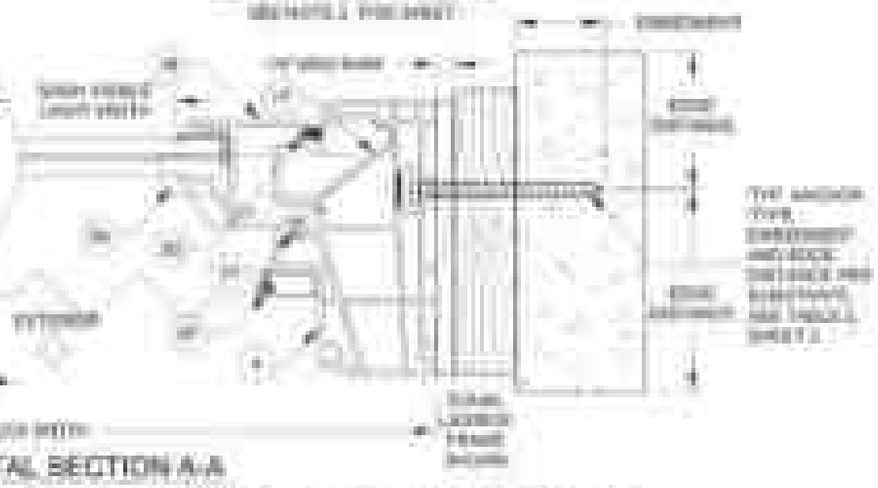


VERTICAL SECTION B-B

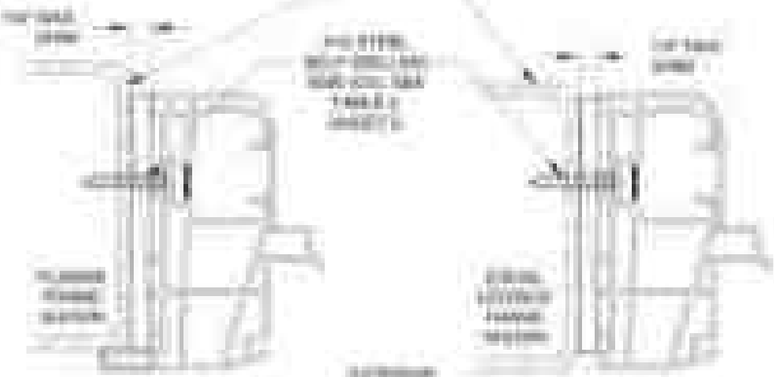
INSTALLATION OPTION 2



INSTALLATION OPTION 3



HORIZONTAL SECTION A-A



INSTALLATION OPTION 4

INSTALLATION OPTION 5

NOTES:

VISIBLE LIGHT (VL) MEASURE

VINYL SINGLE HUNG WINDOW (LC40)			DET-A1116
FLANGE & EQUAL LEGBOX FRAMES			E-A1002
NO CHANGES THIS SHEET - LV			10216624
08/12/09	3 OF 3	SHEET LOAD	9

INSTALLATION DETAILS FOR INTEGRAL FIN & J-CHANNEL FRAMES

INSTALLATION OPTION I

INSTALLATION OPTION II

INSTALLATION OPTION II

HORIZONTAL SECTION C-C

INSTALLATION OPTION I

INSTALLATION OPTION II

INSTALLATION OPTION II

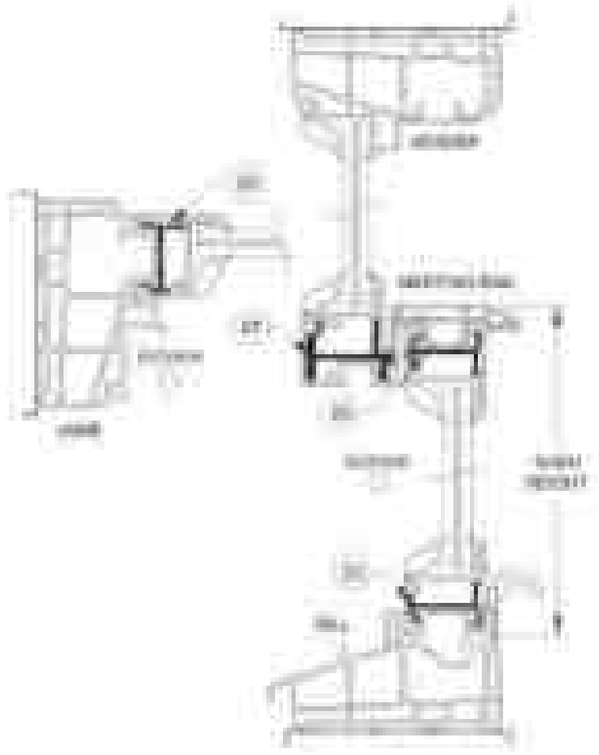
VERTICAL SECTION D-D

VISIBLE LIGHT FORMULAS

NOTES:

VINYL SINGLE HUNG WINDOW (LW)			DESIGN FR
J-CHANNEL & INTEGRAL FIN FRAMES			E 61/62
HYBRID CONFIGURATION NOTE - LY			10/19/22
SHEET	4 OF 4	SHEARED LAMB	B

Glass Types T & U	Design Pressure, lbs/ft²
[illegible]	[illegible]
[illegible] Level I 802	[illegible]



SECTION DETAIL FOR WINDOWS WITH
LEVEL P2 REINFORCEMENT

NOTES:

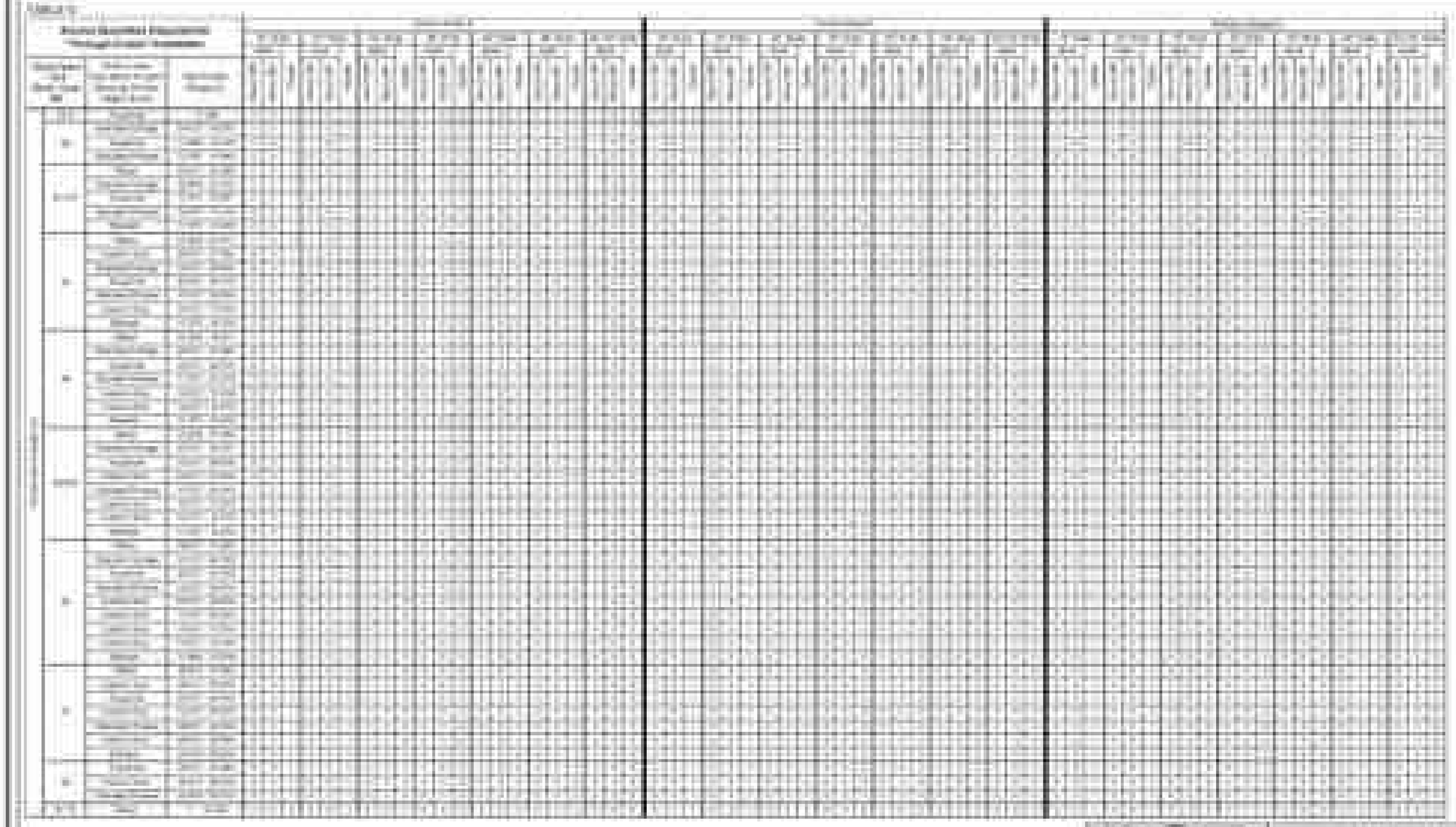
1. [illegible]

2. [illegible]

3. [illegible]

PGT	[illegible]
[illegible]	[illegible]
VINYL SINGLE HUNG WINDOW (LW)	0870419
DESIGN PRESSURES & GLAZING	E 81002
ADDED ULTRA-CON+ ANCHORS - LT	1010622
SH-LW30	5 OF 5	[illegible]	B

[illegible]



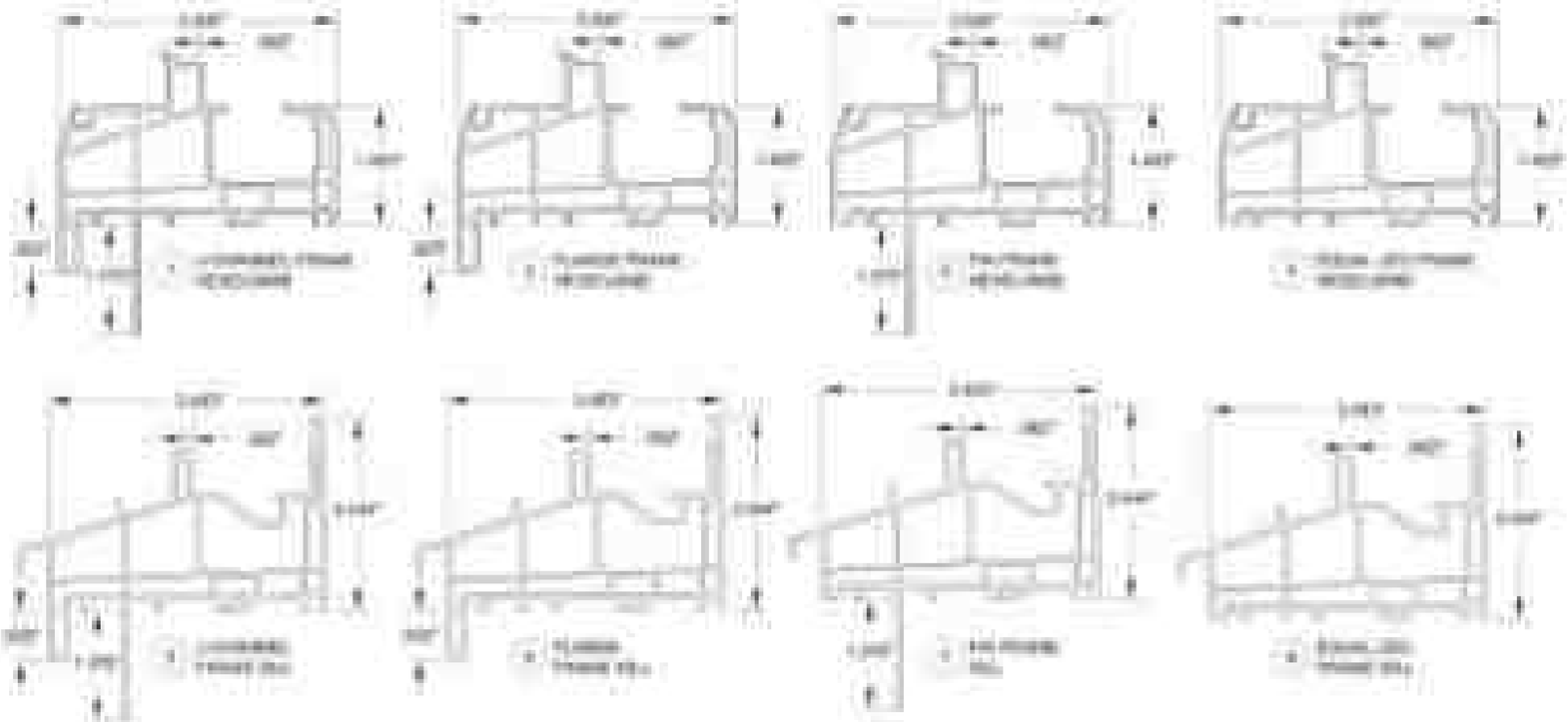
NOTES:

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VINYL SINGLE HUNG WINDOW (LMI)

ANCHOR QUANTITY TABLE

ADDED ULTIMATE+ ANCHORS - LP









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VINYL SINGLE HUNG WINDOW (LSH)	DESIGN FX
WINDOW EXTRUSIONS	E 10002
ADDED ULTRA-SERV ANCHORS - LY	10116624
99 1000	7 OF 9



BILL OF MATERIALS

ITEM	PART #	DESCRIPTION	MATERIAL
1	920101	SINGLE HUNG FRAME HEAD & JAMB - J-CHANNEL	PVC
2	920102	SINGLE HUNG FRAME HEAD & JAMB - FLANGE	PVC
3	920103	SINGLE HUNG FRAME HEAD & JAMB - TILT	PVC
4	920104	SINGLE HUNG FRAME HEAD & JAMB - EQUAL LEG/BOX	PVC
5	920105	SINGLE FRAME SILL - J-CHANNEL	PVC
6	920106	SINGLE FRAME SILL - FLANGE	PVC
7	920107	SINGLE FRAME SILL - TILT	PVC
8	920108	SINGLE FRAME SILL - EQUAL LEG/BOX	PVC
9	920109	PULL MEETING RAIL	PVC
10	920110	SASH RAIL (LOCK, TOP & BOTTOM)	PVC
11	920111	SCREEN COVER	PVC
12	920112	PULL BAR SCREW COVER	PVC
13	920113	PULL BAR INSERT	6063 T5 Al
14	920114	PULL BAR INSERT COVER	PVC
15	920115	BUMPER INSERT	6063 T5 Al
16	920116	BUMPER INSERT COVER	PVC
17	920117	LOCK TAUT REINFORCEMENT	6063 T5 Al
18	920118	PG MEETING RAIL REINFORCEMENT	6063 T5 Al
19	920119	WEATHERSTRIP - 180° x .250" FIN FIN	
20	920120	WEATHERSTRIP - 180° x .156" FLEX BULB	TPAV PVC
21	920121	WEATHERSTRIP - 180° x .220" PILE FIN	
22	920122	WEATHERSTRIP PULL .220" (TYVEK)	
23	1SHSTTF	#8 x .5" PH. TRI SIDE WINDOW MOUNTING SCREW	
24	1SHSTMF	#8 x .5" PH. PAN SIDE MOUNTING MAT SCREW	410 SS
25	1SHSTMP	#8 x .5" PH. PAN SIDE MOUNTING PLATE SCREW	6063 T5 Al
26	120216	MOVING MEETING CAM	PVC
27	1SHSTBP	CONCEALED PLATED BALANCE	
28		#8 x .375" PH. PAN SIDE CONC. FRAME BALANCE SCREW	SS
29		FIXED BALANCE	
30	120208	CURVED BALANCE SHOE	Nylon
31	1SHSTHW	#8 x .5" PH. PAN SIDE HINGE SCREW	410 SS

BILL OF MATERIALS (cont)

ITEM	PART #	DESCRIPTION	MATERIAL
32	920201	PULL LOCK MECHANISM	ZP Steel
33	120202	KEEPER LOCK	Cast Zinc
34	120203	PULL LOCK SCREW ASSEMBLY	Cast Zinc
35	1SHSTSMP10	#8 x 1-1/2" PH. TYP II/III JAMB AND SHEET LOCK SCREW	SS
36	120204	PULL AND SHEET LOCK KEEPER	Cast Zinc
37	1SHSMPPH	#8 x 3/4" PH. PAN SIDE KEEPER SCREW	SS
38	920116	RIGHT TILT LATCH CAM/LATCH RAIL	PVC
39	920117	LEFT TILT LATCH CAM/LATCH RAIL	PVC
40	1SHSMPPH	#8 x 3/4" PH. PAN SIDE KEEPER SCREW	SS
41	920202	TILT LATCH	PVC
42	920204	TILT LATCH RETAINER	PVC
43	120207	7" TILT LATCH SPRING	SS
44	920190	PLASTIC TILT LATCH FINGER PULL	PVC
45	120205	METAL TILT LATCH FINGER PULL	Cast Zinc
46	920192	PLUG FOR CAM KEY	PVC
47	120206	PIVOT BAR	SS
48	120207	LATCH PIN ASSEMBLY	Cast Zinc
49	920194	LATCH PIN ASSEMBLY WITH LATCH ASSEMBLY	Cast Zinc
50	1SHSTSMP	#8 x 3/4" PH. PAN SIDE (PLAT MOUNTING HOLE)	SS
51	920195	SCREW LATCH STRIKE PLATE	Cast Zinc
52	120208	#8 x 3/8" PH. PAN SIDE STRIKE PLATE SCREW	SS
53	120209	LATCH PLATE	PVC
54		INTERLOCKING TAB PIECE (ON TILT SIDE)	Silicone
55		LOCKING BLOCK (1/8" x 1/2" x 4")	EPDM
56	920210	CONCAVE SCREEN FRAME	Alum
57	920211	FLAT CONVEX SCREEN FRAME	Alum
58	1SHSLSST	SCREEN CORNER KEY FOR ENCLOSED FRAME 4 K	PVC
59	920192	SCREEN CORNER KEY WITH PUSH RAIL 4 E	PVC
60	120191	SCREEN CORNER KEY WITHOUT PUSH RAIL 4 C	PVC
61	1SHSPRB	TENSION SPRING	SS
62	920190CAB	SCREEN CLOTH	Fiberglass
63	920SCRNTAB	TAB SCREEN SPINE REINFORCEMENT & RIVETS	Vinyl

NOTES:

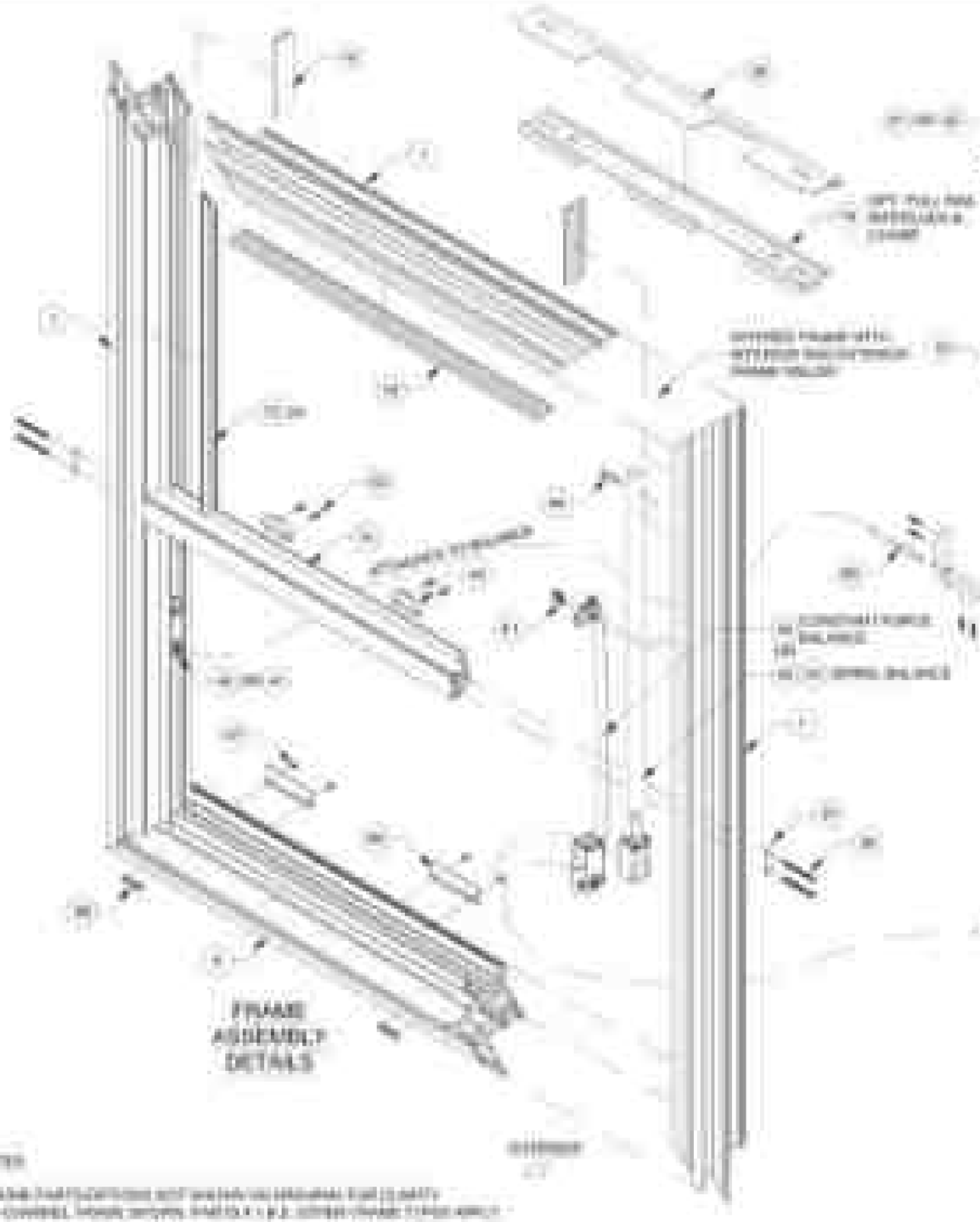
1. [illegible] AS SPECIFIED IN MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. [illegible]

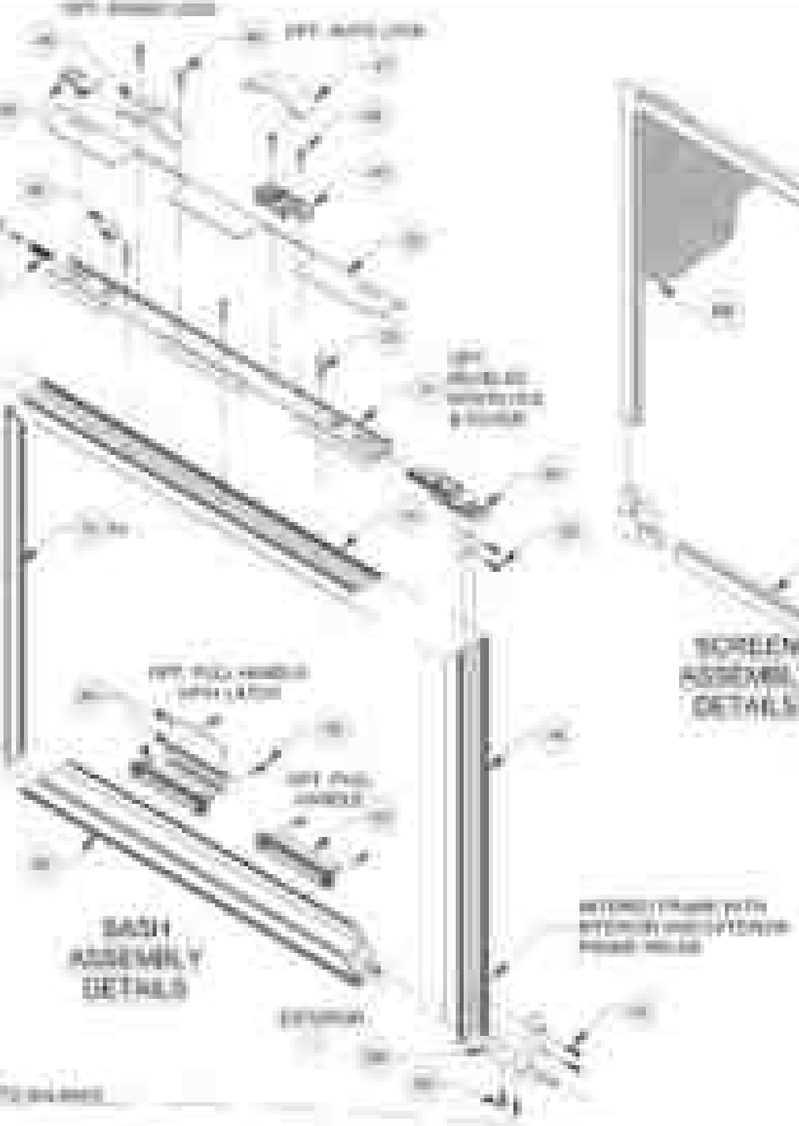
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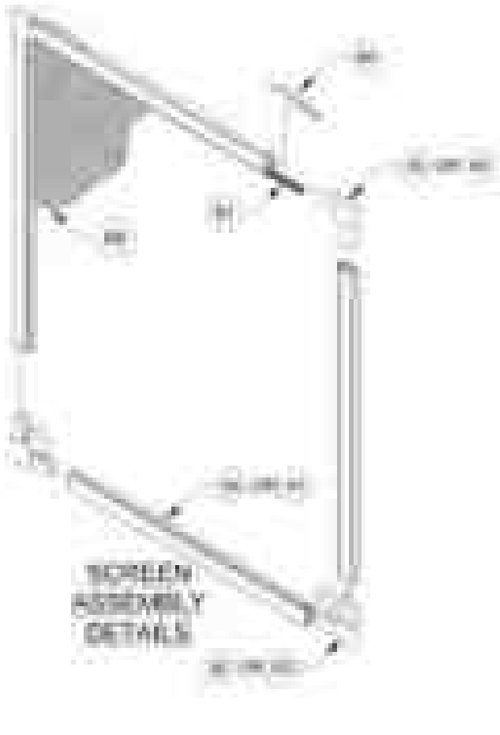
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VINYL SINGLE HUNG WINDOW (LS5)			09SHV19
BOM			E 9/28/22
CHANGED EXTRUDER TO V9004 - LT			10/19/22
DRAWN	9 OF 9	SHEET NAME	

[illegible]







NOTES

PGT

VINYL SINGLE HUNG WINDOW (LAM)	SH-NH-TH
ASSEMBLY	E 82.500
ADDED ULTRA-LOK® ANCHORS - LP	10/14/22
SH-0000	5 OF 5