



TEST REPORT

AAMA/WDMA/CSA 101/I.S.2/A440-17

AAMA/WDMA/CSA 101/I.S.2/A440-11

REPORT No.: 31775.01-109-11

RENDERED TO: CROFT LLC.
Magnolia, Mississippi

PRODUCT TYPE: PVC Single Hung Window

SERIES / MODEL: 10 Series

Test	Summary of Results
Primary Product Designator	Class R – PG35 921 x 1835 (36-1/4 x 72-1/4)-H
Design Pressure	±1680 Pa (±35.09 psf)
Air Infiltration @ 1.57 psf	0.8 L/s/m ² (0.16 cfm/ft ²)
Air Exfiltration @ 1.57 psf	0.8 L/s/m ² (0.15 cfm/ft ²)
Water Penetration Resistance Test Pressure	Pa (7.52 psf)

Test	Summary of Results
Primary Product Designator	Class R – PG50 921 x 1835 (36-1/4 x 72-1/4)-H
Design Pressure	±2400 Pa (±50.13 psf)
Air Infiltration @ 1.57 psf	0.5 L/s/m ² (0.09 cfm/ft ²)
Air Exfiltration @ 1.57 psf	0.4 L/s/m ² (0.08 cfm/ft ²)
Water Penetration Resistance Test Pressure	Pa (7.52 psf)

Test Completion Date: 9/26/2025

Reference must be made to Report No. 31775.01-109-11, dated 10/14/2025 for complete test specimen description and detailed test results.

CLIENT INFORMATION: CROFT LLC.
1800 N. Clarke Avenue
Magnolia, Mississippi 39652

TEST LABORATORY: Molimo, LLC
1140 Lincoln Avenue
Springdale, Pennsylvania 15144
724-410-7324

PROJECT SUMMARY:

PRODUCT TYPE: PVC Single Hung Window

SERIES/MODEL: 10 Series

PROJECT SUMMARY:

Molimo, LLC was contracted to perform testing on the above-mentioned products. The results are tested values and were secured by using the designated test methods. A summary of the rating achieved for the specimens tested are shown in the table below.

SPECIMEN	SPECIFICATION	PRODUCT RATING
1	101/I.S.2/A440-11/-17	Class R – PG35 921 x 1835 (36-1/4 x 72-1/4)-H
2	101/I.S.2/A440-11/-17	Class R – PG50 921 x 1835 (36-1/4 x 72-1/4)-H

PROJECT DETAILS:

Test Dates: 9/24/2025 – 9/26/2025

Test Record Retention End Date: 9/26/2027

Test Location: Molimo, LLC test facility in Springdale, Pennsylvania.

Test Specimen Source: The test specimens were provided by the client. Representative samples of the test specimens will be retained by Molimo for a minimum of four years from the test completion date.

Drawing Reference: The test specimen drawings were supplied by the client. The test specimen construction was verified by Molimo and was found to be representative of the products tested. Test specimen drawings are located in Appendix C of this report.

WITNESSES:

The following representatives witnessed all or part of the testing.

Name	Company
Pat Racioppi	The Vinyl Company
James Wilson	Molimo, LLC
Michael Matovcik	Molimo, LLC

TEST METHODS:

AAMA/WDMA/CSA 101/I.S.2/A440-17, *NAFS 2017 - North American Fenestration Standard/Specification for Windows, Doors, and Skylights*

AAMA/WDMA/CSA 101/I.S.2/A440-11, *NAFS 2011 - North American Fenestration Standard/Specification for Windows, Doors, and Skylights*

TEST SPECIMEN DESCRIPTION:**PRODUCT SIZES:**

Test Specimen #1 & #2				
Overall Area: 1.7 m ² (18.19 ft ²)	Width		Height	
	Millimeters	Inches	Millimeters	Inches
Overall Size:	921	36-1/4	1835	72-1/4
Interior Sash:	841	33-1/8	902	35-1/2
Screen Size:	816	32-1/8	876	34-1/2

FRAME CONSTRUCTION:**SPECIMEN #1 & #2**

Frame Member	Material	Detail
Head, Sill and Jambs	Aluminum	Extruded
Corner Construction	--	Miter-cut and thermally welded
Fixed meeting rail	PVC	Extruded, secured at each end with two #8 x 2-1/2" panhead screws through jamb into screw boss in fixed meeting rail

TEST SPECIMEN DESCRIPTION: (Continued)**SASH CONSTRUCTION:**

Sash Member	Material	Detail
Rails and stiles	PVC	Extruded
Corner Construction	--	Miter-cut and thermally welded

REINFORCEMENT:**SPECIMEN #1**

Drawing Number	Material	Location
P-7707	Aluminum	All Stiles and lock rail

SPECIMEN #2

Drawing Number	Material	Location
P-7707	Aluminum	All Stiles and lock rail
P02039	Aluminum	Fixed meeting rail

TEST SPECIMEN DESCRIPTION: (Continued)

GLAZING DETAILS: *No conclusions of any kind regarding the adequacy or inadequacy of the glass in any glazed test specimens can be made.*

SPECIMEN #1

Description	Detail
Glass Type	5/8" IG
Glazing Construction (exterior to interior)	3/32" thick annealed glass 7/16" Metal U-shaped space with butyl 3/32" thick annealed glass
Glazing Method	Sash set from the exterior and fixed lite set from interior against silicone sealant and secured with rigid glazing beads
Glazing Bite	1/2"
Daylight Opening Sash: Fixed:	770 mm x 827 mm (30-5/16" x 32-9/16") 787 mm x 819 mm (31" x 32-1/4")

Specimen #2

Description	Detail
Glass Type	5/8" IG
Glazing Construction (exterior to interior)	1/8" thick annealed glass 3/8" Metal U-shaped space with butyl 1/8" thick annealed glass
Glazing Method	Sash set from the exterior and fixed lite set from interior against silicone sealant and secured with rigid glazing beads
Glazing Bite	1/2"
Daylight Opening Sash: Fixed:	770 mm x 827 mm (30-5/16" x 32-9/16") 787 mm x 819 mm (31" x 32-1/4")

TEST SPECIMEN DESCRIPTION: (Continued)**WEATHERSTRIPPING:**

Description	Quantity	Location
0.187 backed 0.250" high polypile with centerfin	1 Row	Sill, Interior Sash retention leg
0.187 backed 0.250" high polypile with centerfin	1 Row	Fixed meeting rail and lock rail
0.187 backed 0.310" high polypile with centerfin	2 Rows	All stiles
0.187" backed 0.290" bulb seal	1 Row	Sash, exterior face

DRAINAGE:

Description	Quantity	Location
Weepslot with flap (1-1/2" wide x 1/4" high)	2	Sill, front face 2" from each end
Weepslot (9/16" wide x 1/8" high)	4	Sill, two at each end in outer two most interior walls
Weephole (1-1/4" wide x 3/16" deep)	2	Sill, Top surface 1/2" from each end
Weep Channel (4" wide x leg height)	4	Sill, at each end of sash and screen retention legs
Weephole (3/8" diameter)	2	Through glazing track
Weephole (3/8" wide x 5/32" deep)	2	Bottom rail, 2-1/4" from each end

TEST SPECIMEN DESCRIPTION: (Continued)**HARDWARE:****Specimen #1**

Description	Quantity	Location
Composite sweep lock	2	8" in from each end
Constant Force Balance	2	Two per jamb, one in each track
Metal Pivot Bar	4	2 per sash at Keeper and Bottom Rails
Composite Submarine Tilt Latch	2	One at each end of lock rail

Specimen #2

Description	Quantity	Location
Composite cam lock with keeper	2	Lock rails with mating keeper on fixed meeting rails, one 8" in from Seach end
Constant Force Balance	2	Two per jamb, one in each track
Metal Pivot Bar	4	2 per sash at Keeper and Bottom Rails
Top Mount Composite Tilt Latch	2	One at each end of lock rail
Steel Tilt Latch Clip	2	Jamb track, secured with #8 x 1-1/2" Panhead screws through clip and jamb into wood buck

TEST SPECIMEN DESCRIPTION: (Continued)

SCREEN CONSTRUCTION:

Frame Material	Roll-formed aluminum
Corner Construction	square-cut and keyed
Mesh Type	Fiberglass mesh
Mesh Attachment Method	Flexible vinyl spline

INSTALLATION: The specimen was installed into a Spruce-Pine-Fir wood buck. The rough opening allowed for a 1/8" shim space. The exterior perimeter of the specimen was sealed with sealant.

Location	Anchor Description	Anchor Spacing
Nailing fin	#6 x 1-5/8" Drywall screws	Nominally spaced 8" starting 4" from end

TEST RESULTS: The temperature during testing was 22° C (71° F).

SPECIMEN #1

OPERATING FORCE: (per ASTM E 2068)

Test	Results	Allowable	Note
Initiate Motion	114 N (25.6 lbf)	200 N (45 lbf)	1
Maintain Motion (Opening)	80 N (18.0 lbf)	155 N (35 lbf)	
Maintain Motion (Closing)	32 N (7.2 lbf)	155 N (35 lbf)	
Locks / Latches	92 N (20.7 lbf)	100 N (22.5 lbf)	

Measurement Uncertainty: ±1.28 lbf

TEST RESULTS: (Continued)

AIR LEAKAGE TESTING: First Half (per ASTM E 283)

Test	Results	Allowable	Note
Infiltration @ 75 Pa (1.57 psf)	0.8 L/s/m ² (0.16 cfm/ft ²)	1.5 L/s/m ² (0.30 cfm/ft ²)	2
Exfiltration @ 75 Pa (1.57 psf)	0.8 L/s/m ² (0.15 cfm/ft ²)	1.5 L/s/m ² (0.30 cfm/ft ²)	2

Measurement Uncertainty: $\pm 3.63\%$

Canadian Air Infiltration Rating: A2

WATER PENETRATION TESTING: (per ASTM E 547)

Test	Results	Allowable	Note
360 Pa (7.52 psf)	Pass	No Leakage	3

UNIFORM LOAD TESTING: (per ASTM E 330)

Design Pressure Test	Results	Allowable	Note
Deflection measured at Fixed meeting rail +1680 Pa (+35.09 psf) -1680 Pa (-35.09 psf)	11.4 mm (0.45") 8.1 mm (0.32")	Report Only	4,5,6

Measurement Uncertainty: $\pm 0.01"$

Structural Test	Results	Allowable	Note
Permanent Set measured at Fixed meeting rail +2520 Pa (+52.64 psf) -2520 Pa (-52.64 psf)	0.3 mm (0.01") 0.5 mm (0.02")	0.12 mm (0.12") 0.12 mm (0.12")	4,5,6

Measurement Uncertainty: $\pm 0.01"$

SECONDARY TESTING:

Test	Results	Allowable
FORCED ENTRY RESISTANCE per ASTM F 588 Type: A – Grade: 10	Pass	No Entry
THERMOPLASTIC CORNER WELD	Pass	Meets as stated
DEGLAZING per ASTM E 987 Operating Direction – 320 N (70 lbf) Remaining Direction – 230 N (50 lbf)	Pass Pass	Meets as stated Meets as stated

TEST RESULTS: (Continued)

SPECIMEN #2
OPERATING FORCE: (per ASTM E 2068)

Test	Results	Allowable	Note
Initiate Motion	120 N (27.0 lbf)	200 N (45 lbf)	1
Maintain Motion (Opening)	76 N (17.1 lbf)	155 N (35 lbf)	
Maintain Motion (Closing)	30 N (6.7 lbf)	155 N (35 lbf)	
Locks / Latches	38 N (8.5 lbf)	100 N (22.5 lbf)	

Measurement Uncertainty: ± 1.28 lbf

AIR LEAKAGE TESTING: First Half (per ASTM E 283)

Test	Results	Allowable	Note
Infiltration @ 75 Pa (1.57 psf)	0.5 L/s/m ² (0.09 cfm/ft ²)	1.5 L/s/m ² (0.30 cfm/ft ²)	2
Exfiltration @ 75 Pa (1.57 psf)	0.4 L/s/m ² (0.08 cfm/ft ²)	1.5 L/s/m ² (0.30 cfm/ft ²)	2

Measurement Uncertainty: $\pm 3.63\%$

Canadian Air Infiltration Rating: A3

WATER PENETRATION TESTING: (per ASTM E 547)

Test	Results	Allowable	Note
360 Pa (7.52 psf)	Pass	No Leakage	3

TEST RESULTS: (Continued)

UNIFORM LOAD TESTING: (per ASTM E 330)

Design Pressure Test	Results	Allowable	Note
Deflection measured at Fixed meeting rail +2400 Pa (+50.13 psf) -2400 Pa (-50.13 psf)	6.4 mm (0.25") 7.1 mm (0.28")	Report Only	4,5,6

Measurement Uncertainty: $\pm 0.01"$

Structural Test	Results	Allowable	Note
Permanent Set measured at Fixed meeting rail +3600 Pa (+75.20 psf) -3600 Pa (-75.20 psf)	0.3 mm (0.01") 0.3 mm (0.01")	0.12 mm (0.12") 0.12 mm (0.12")	4,5,6

Measurement Uncertainty: $\pm 0.01"$

SECONDARY TESTING:

Test	Results	Allowable
FORCED ENTRY RESISTANCE per ASTM F 588 Type: A – Grade: 10	Pass	No Entry
THERMOPLASTIC CORNER WELD	Pass	Meets as stated
DEGLAZING per ASTM E 987 Operating Direction – 320 N (70 lbf) Remaining Direction – 230 N (50 lbf)	Pass Pass	Meets as stated Meets as stated

General Notes: All testing was performed in accordance with reference test methods.

- #1: The operating force results listed above represent the maximum force measured among all sash tested.*
- #2: The specimen tested meets (or exceeds) the performance levels specified in AAMA/WDMA/CSA 101/I.S.2/A440 for air leakage resistance.*
- #3: Water Penetration testing was performed with and without an insect screen.*
- #4: The deflections reported are not limited by AAMA/WDMA/CSA 101/I.S.2/A440 for this product designation and is recorded for information purposes only.*
- #5: All loads were held for 10 seconds.*
- #6: Tape and film were used to seal against air leakage. In our opinion, the tape and film did not influence the results of the test.*

A copy of this report, detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation will be retained by Molimo, LLC for the entire test record retention period. At the end of this retention period, the service life of this report will expire.

Statements of conformity, when required, are based on test results falling within the specified limits without considering uncertainty measurements. Results obtained are tested values and were secured by using the designated test methods. The results in this report are relevant only to the specimen(s) tested. This test report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimen(s) tested. This report may not be reproduced, except in full, without the written permission of Molimo, LLC.

For MOLIMO, LLC:

Written by:

Authorized by:

Michael Matovcik
Technician

Joseph Allison
Regional Manager

MM:nc

Attachments (pages): This report is complete only when all attachments listed are included.

Appendix-A: Alteration Addendum (1)

Appendix-B: Air Seal Location (1)

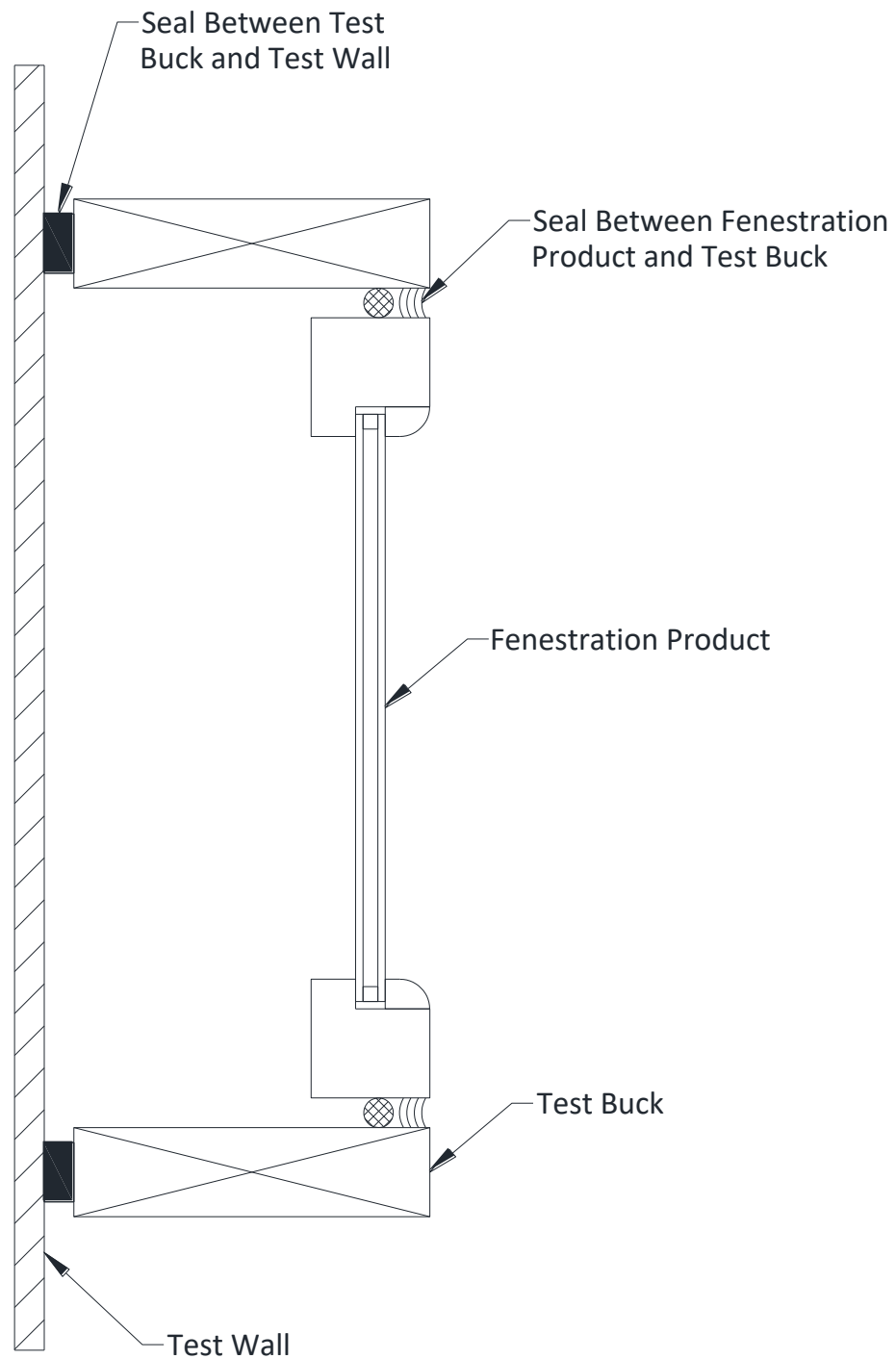
Appendix-C: Drawings (14)

Revision Log

Rev. #	Date	Page(s)	Revision(s)
0	10/14/2025	All	Original Report Issue

Appendix A**Alteration Addendum**

No alterations were performed.

Appendix B**Air Seal Location**

Appendix C**Drawings**

Report #: 31775.01-109-11

Date: 10/8/2025

By: Michael Matovcik

10 Series Bill of Materials

ITEM	DESCRIPTION	PART #	QTY	PART SPECS	MATERIAL	SOURCE	NOTES
1	MAIN FRAME SILL	5132	1		PVC	THE VINYL COMPANY	
2	MAIN FRAME JAMBS	5131	2		PVC	THE VINYL COMPANY	
3	MAIN FRAME HEAD	5131	1		PVC	THE VINYL COMPANY	
4	FIXED MEETING RAIL	5135	1		PVC	THE VINYL COMPANY	
5	SASH LOCK RAIL	2825	1		PVC	THE VINYL COMPANY	
6	SASH STILE	2821	2		PVC	THE VINYL COMPANY	
7	SASH LIFT RAIL	2827	1		PVC	THE VINYL COMPANY	
8	GLAZING BEAD	0020-310	8		PVC	VYTRON	
11	SASH STOP	135	2		PVC	THE VINYL COMPANY	
REINFORCEMENT							
12	SASH LOCK RAIL	P-7707	1		ALUMINUM	EXTRUDEX	
13	FIXED MEETING RAIL	P02039	1		ALUMINUM	TOWER EXTRUSIONS	
14	SASH STILES	P-7707	1		ALUMINUM	EXTRUDEX	
15	SASH LIFT RAIL	P-7707	1		ALUMINUM	EXTRUDEX	
HARDWARE							
16	CAMLOCK	31821	2			VISION	2 LOCKS USED 28" AND UP
17	KEEPER	8197	2			VISION	TDI Top Mount Latch w/ Refo clip
18	TILT LATCH SUBMARINE RH	503-234	1			LAWRENCE INDUSTRIES	
19	TILT LATCH SUBMARINE LH	504-234	1			LAWRENCE INDUSTRIES	
20	PIVOT BAR	23111	2			AMESBURY	
21	BALANCE	12# CF	2	TBD		CALDWELL	
22	MEETING RAIL CLIP	14103A	2	.450" x 2.732"		VISION HWARDWARE	
23	MEETING RAIL CLIP - ANGLED FOR PW SASH	1530B	2	.450" x 1.92"		VISION HARDWARE	L BRACKET
24	JAMB LINER CLIP	CB962	2			FOUR-JAKS	
WEATHERSTRIPPING							
25	LOCK RAIL PILE WEATHER STRIP		AR	.187 X .310 .187 X .250		ULTRAFAB	
26	KEEPER RAIL PILE WEATHERSTRIP			N/A .187 X .250		ULTRAFAB	
27	SASH STILE PILE WEATHERSTRIP (2 SLOTS)		AR	.187 X .310		ULTRAFAB	
28	SASH LIFT RAIL PILE WEATHERSTRIP		AR	.187 X .310		ULTRAFAB	
29	BULB SEAL SASH SILL	TBD	AR	.187 X .290		VINYL PROFILE	
30	FRAME SILL UPSTAND PILE WEATHER STRIP		AR	.187 X .310		ULTRAFAB	
SCREWS							
31	SWEEP LOCK SCREWS		2 OR 4	#8 X 7/8" SDPFH		MERCHANTS FASTENERS	2 LOCKS USED 30" AND UP
32	PIVOT BAR SCREWS		4	6-32 X 3/8" PSD		MERCHANTS FASTENERS	
33	TILT LATCH SCREWS (TOP MOUNT LATCH)		4	#6 x 3/4" SDPPH		MERCHANTS FASTENERS	
34	REINFORCEMENT HOLDING SCREW		4	#6 x 1/2" PFH TEK		MERCHANTS FASTENERS	
35	MRAIL ATTACHMENT SCREW (THRU FRAME)		4	#8 X 2 PPH		MERCHANTS FASTENERS	
36	MR DRYWALL CLIP SCREW - TO FRAME		4	#8 x 3/4" ABFH		MERCHANTS FASTENERS	
37	MR DRYWALL CLIP SCREW - TO MRAIL		4	#8 x 1 1/2" ABFH		MERCHANTS FASTENERS	
38	MR DRYWALL CLIP SCREW - TO INT JAMB		4	#8 x 1 1/2" ABFH		MERCHANTS FASTENERS	
39	INTERMEDIATE JAMB SCREWS		8	#8 X 3 PPH		MERCHANTS FASTENERS	
GLAZING							
40	GLAZING SHIMS		16	1/8"X3/4" X 3/4"		TREMCO	1
41	GLAZING TAPE		AR	1/16" X 1/2" (AWT)		ARLON	1
42	SILICONE SEALANT	NOVAFLEX	AR			NOVAGUARD	1

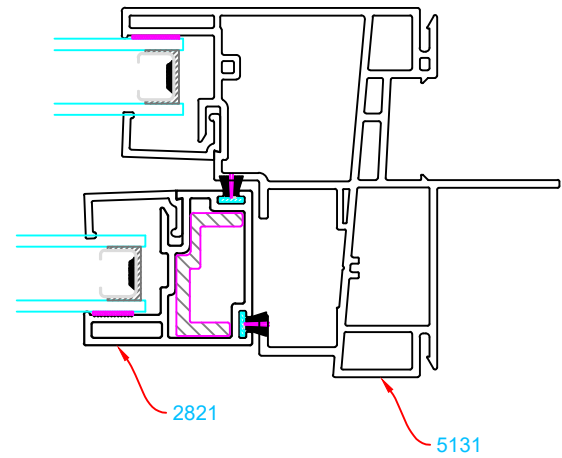
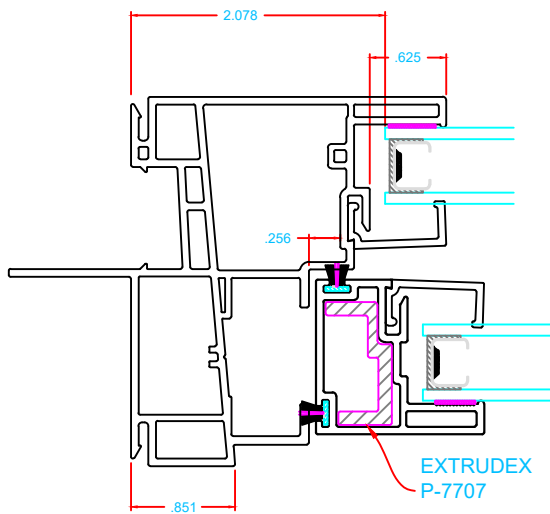
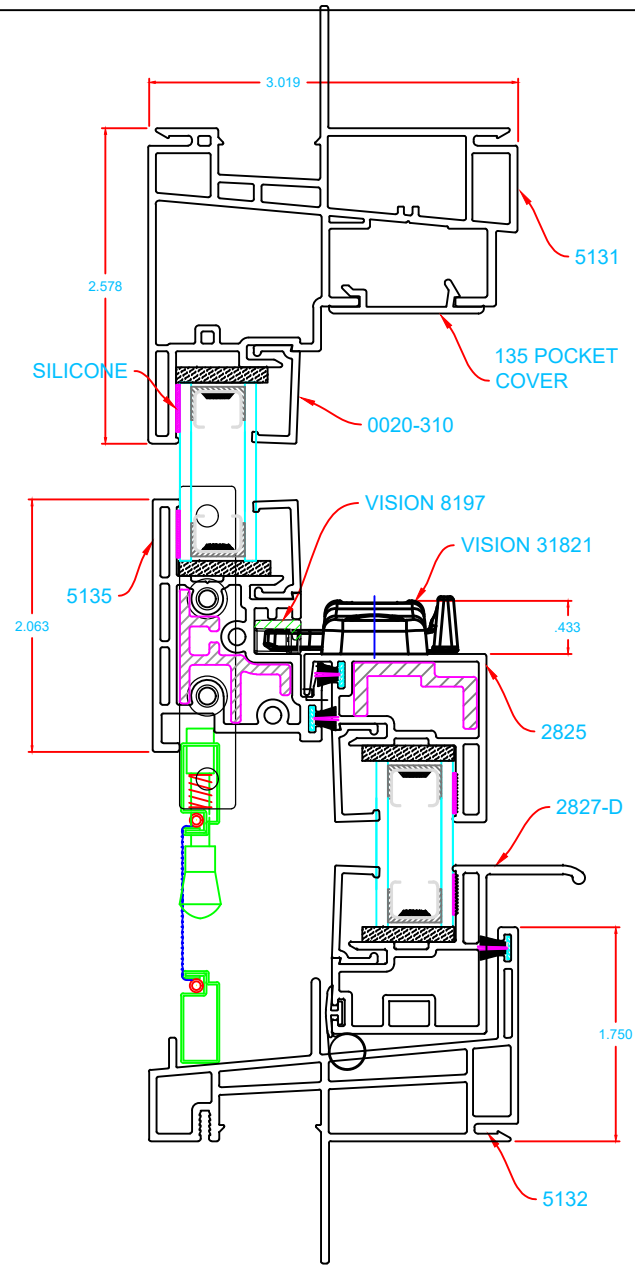
10 SERIES NEW CONSTRUCTION
SINGLE HUNG WINDOW SYSTEM

**Molimo™**
Architectural Product Testing

Report #: 31775.01-109-11

Date: 10/8/2025

By: Michael Matovcik

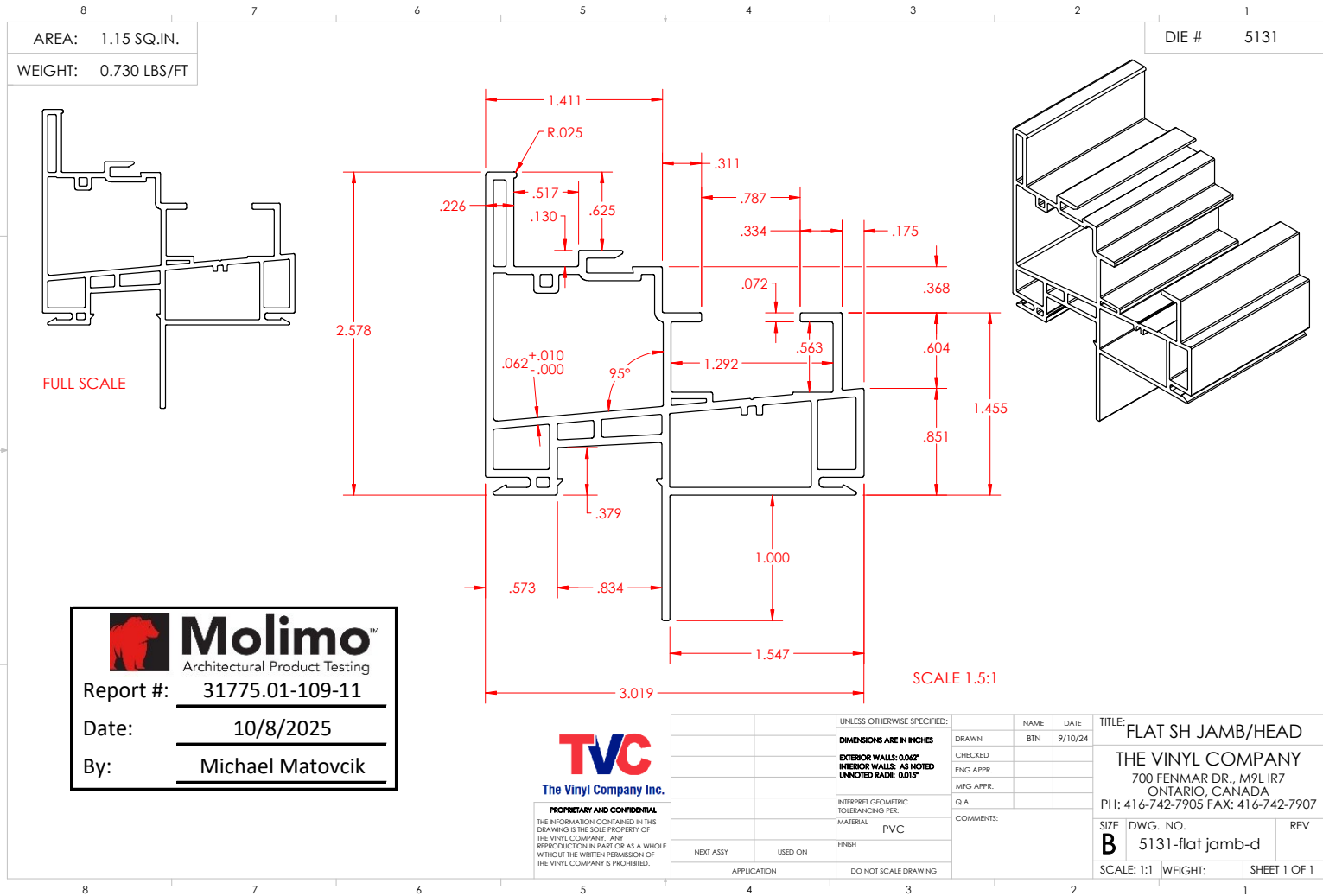


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700 FENMAR DR. , M9L 1R7
ONTARIO, CANADA
PH: 416-742-7905
FAX: 416-742-7907

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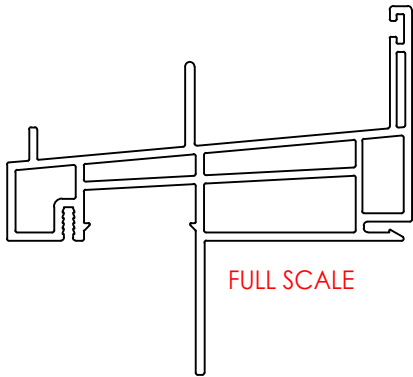
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SERIES:	10 SERIES SINGLE HUNG
DRAWING NO:	10 SERIES SYSTEM ASSY
TOLERANCES:	080625
REVISION:	
DRAWN & DATE:	BTN 11/25/24
APPROVED & DATE:	



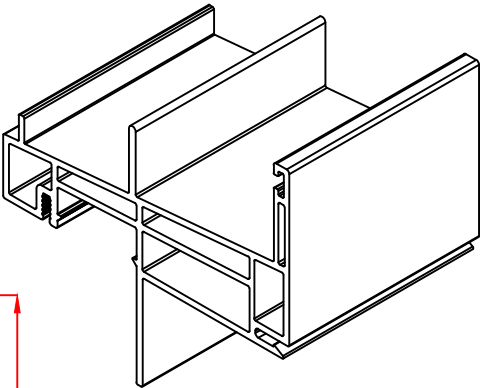
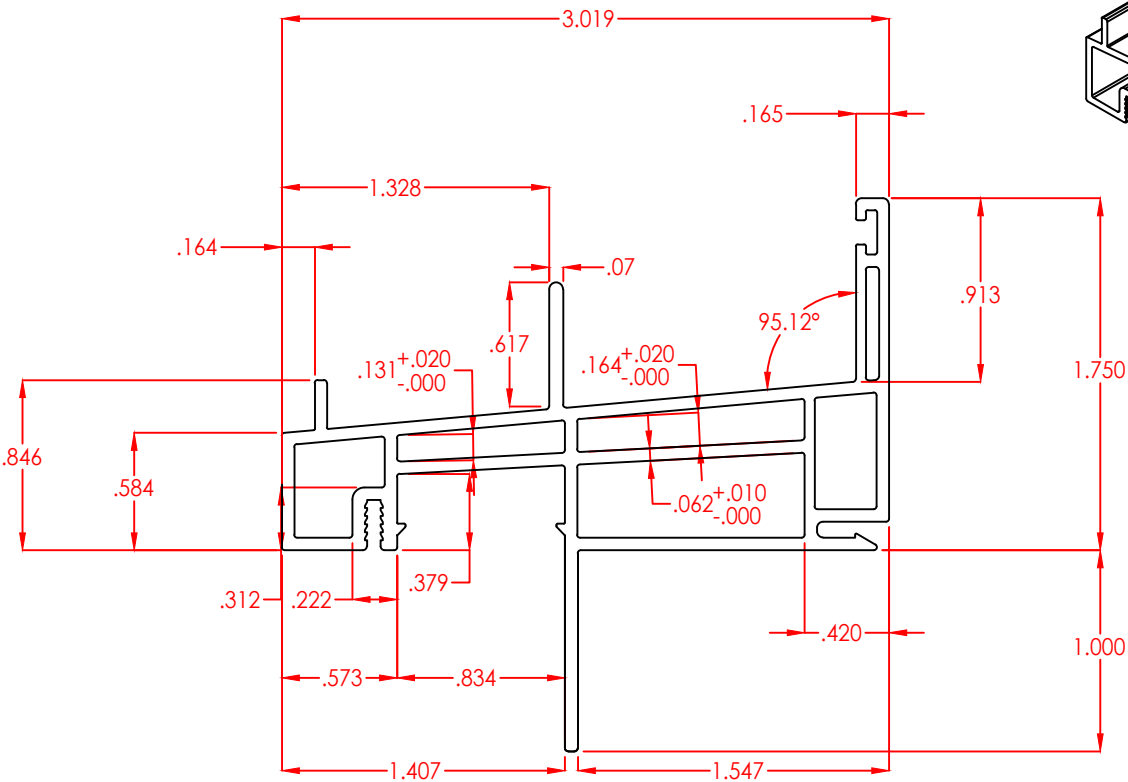
AREA: 0.870 SQ.IN.

DIE # 5132

WEIGHT: 0.552 LBS/FT



FULL SCALE



SCALE 1.5:1

**Molimo**[™]
Architectural Product Testing

Report #: 31775.01-109-11

Date: 10/8/2025

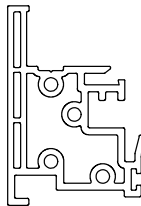
By: Michael Matovcik

						UNLESS OTHERWISE SPECIFIED:				NAME		DATE		TITLE: 10-Series SH SILL THE VINYL COMPANY 700 FENMAR DR., M9L 1R7 ONTARIO, CANADA PH: 416-742-7905 FAX: 416-742-7907						
						DIMENSIONS ARE IN INCHES				DRAWN		BTN					11/01/24			
						EXTERIOR WALLS: 0.062" INTERIOR WALLS: 0.062" UNNOTED RADII: 0.015"				CHECKED										
										ENG APPR.										
REVISION		DESCRIPTION				DATE		D:\Work\The Vinyl Company\hvc-109-2016.jpg								PH: 416-742-7905 FAX: 416-742-7907				
A		ADDED CENTER UPSTAND LEG				07/30/25														
								PROPRIETARY AND CONFIDENTIAL								COMMENTS:				
								THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE VINYL COMPANY. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE VINYL COMPANY IS PROHIBITED.												
										NEXT ASSY		USED ON						SIZE B		
																		DWG. NO. 5132-flat sill-d		
																		REV		
																		SCALE: 1:1		
																		SHEET 1 OF 1		
																		WEIGHT:		
																		DO NOT SCALE DRAWING		
																		APPLICATION		
																		INTERPRET GEOMETRIC TOLERANCING PER:		
																		MATERIAL		
																		PVC		
																		FINISH		
																		DO NOT SCALE DRAWING		

DIE # 5135

Technical drawing of a stepped profile. The profile has a total height of 100 and a total width of 100. It features a series of steps with varying heights and widths. The dimensions are as follows:

- Top horizontal edge: 100
- Left vertical edge: 100
- Step 1 (from left): height 20, width 20
- Step 2 (from left): height 40, width 40
- Step 3 (from left): height 60, width 60
- Step 4 (from left): height 80, width 80
- Step 5 (from left): height 100, width 100



FULL SCALE



Molimo™
Architectural Product Testing

Date: 10/8/2025

By: Michael Matovcik

REVISIONS		
REV.	DESCRIPTION	DATE
A	SHORTENED SCREEN LEG TO 0.219	11/6/2024

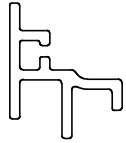


The Vinyl Company Inc.

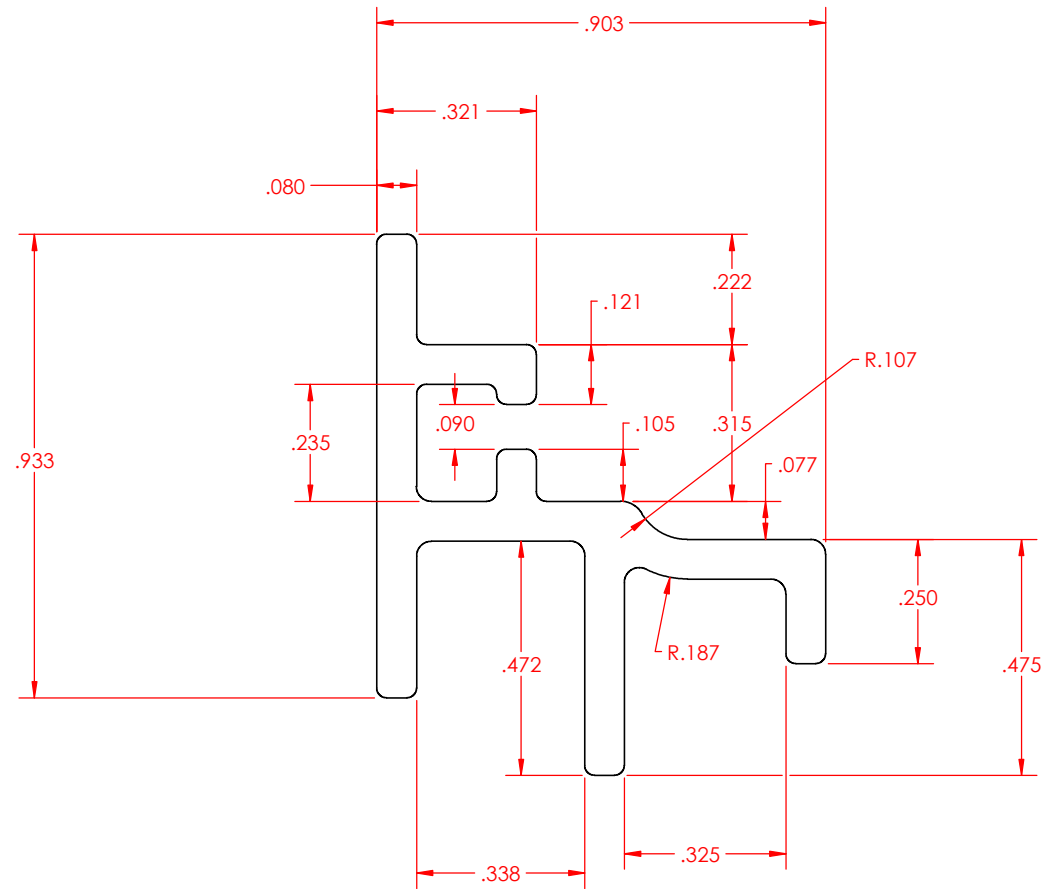
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THE VINYL COMPANY IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME		DATE		TITLE:	
		DIMENSIONS ARE IN INCHES EXTERIOR WALLS: 0.072" INTERIOR WALLS: 0.062" UNNOTED RADII: 0.015"		DRAWN		BTN		4928/3028 FIXED MRAIL	
				CHECKED				THE VINYL COMPANY 700 FENMAR DR., M9L1R7 ONTARIO, CANADA PH: 416-742-7905 FAX: 416-742-7907	
				ENG APPR.					
				MFG APPR.					
		INTERPRET GEOMETRIC TOLERANCING PER:		Q.A.					
		MATERIAL: PVC		COMMENTS:					
NEXT ASSY		USED ON		FINISH		SIZE		DWG. NO.	
						B		5135-mrail-d	
APPLICATION		DO NOT SCALE DRAWING						REV	
								A	
								SCALE: 1:1 WEIGHT:	
								SHEET 1 OF 1	

WEIGHT: 0.XXX LBS/FT



FULL SCALE



SCALE 4:1



Molimo™
Architectural Product Testing

Report #: 31775.01-109-11

Date: 10/8/2025

By: Michael Matovcik



The Vinyl Company Inc.

PROPRIETARY AND CONFIDENTIAL

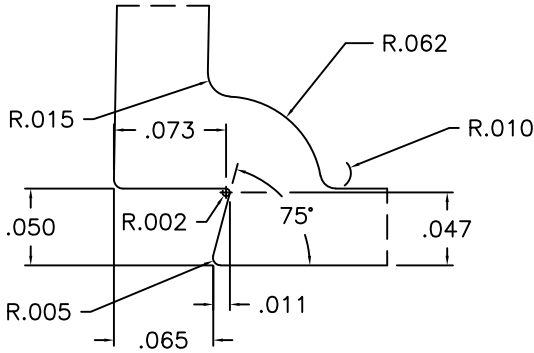
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: 10 SERIES MR REFO THE VINYL COMPANY 700 FENMAR DR., M9L 1R7 ONTARIO, CANADA PH: 416-742-7905 FAX: 416-742-7907		
		DIMENSIONS ARE IN INCHES	DRAWN	BTN	4/06/25			
		EXTERIOR WALLS: 0.080" INTERIOR WALLS: N/A UNNOTED RADII: 0.030"	CHECKED					
			ENG APPR.					
			MFG APPR.					
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.					
		MATERIAL AL 6063-T6 OR EQUIV.	COMMENTS:			SIZE	DWG. NO.	REV
NEXT ASSY	USED ON	FINISH				B	10-series-mr refo-d	
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:1	WEIGHT:	SHEET 1 OF 1

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ACTUAL SIZE



DETAIL A
8X SCALE



Molimo
Architectural Product Testing

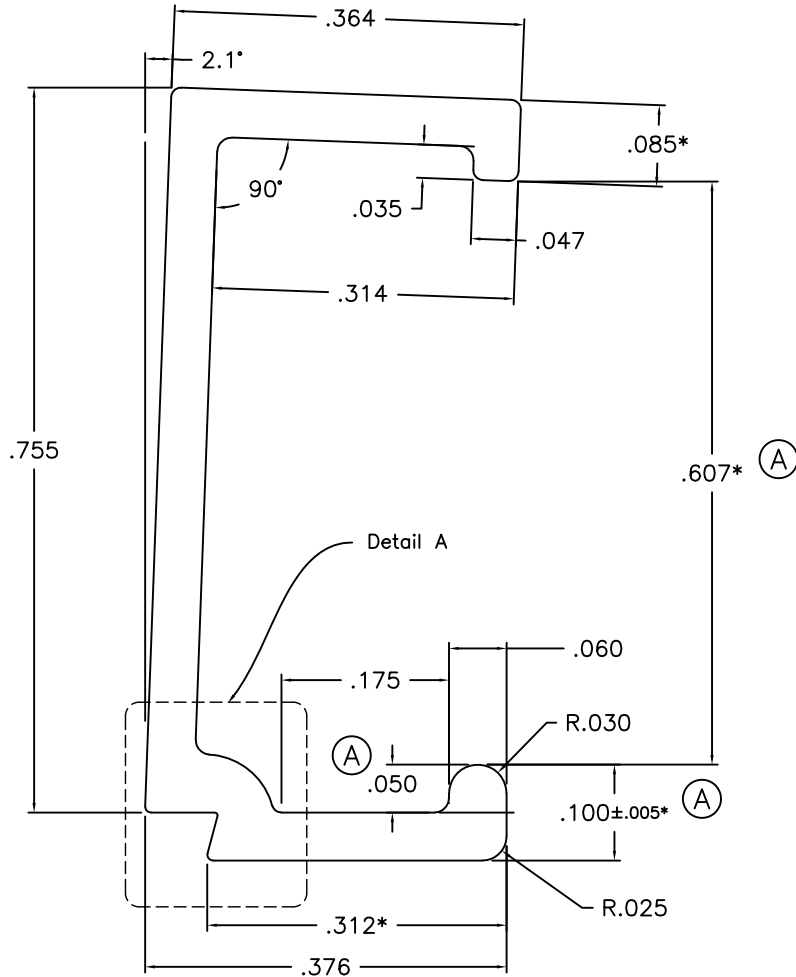
Report #: 31775.01-109-11

Date: 10/8/2025

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STANDARD TOLERANCES
(UNLESS NOTED OTHERWISE)
.000-.125 ± .010
.125-.500 ± .015
.500-2.00 ± .020
2.00-4.00 ± .030
4.00-5.00 ± .040
WALLS ± 10%
ANGLES ± 3°

VYTRON # VR-2828



*CRITICAL DIMENSION

STANDARD WALL - .050
STANDARD RADII - .015

PART NO.
P10050-WHT
P10051-ALM
P10052-CLAY
P10083-BLACK

A	Bul. 0020-031 Revised leg.	tgt 12/5/19
—	Bul. 0020-001 New release.	tgt 1/6/12

TOLERANCE NOT NOTED DEC. ± .005 FRAC ± 1/64

SCALE: 5X

CROFT, LLC

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MATL. RIGID VINYL			PRODUCT 20/50	SECT. 120310	
DRWN. BY	tgt	DATE 01/06/12		WT. .055 #/FT.	
CKD. BY		DATE	PART GLAZING BEAD FOR 5/8" IG	PRINT NO.	
APP'D BY		DATE		0020-310	

WARNING!
CONFIDENTIAL MATERIAL

XX

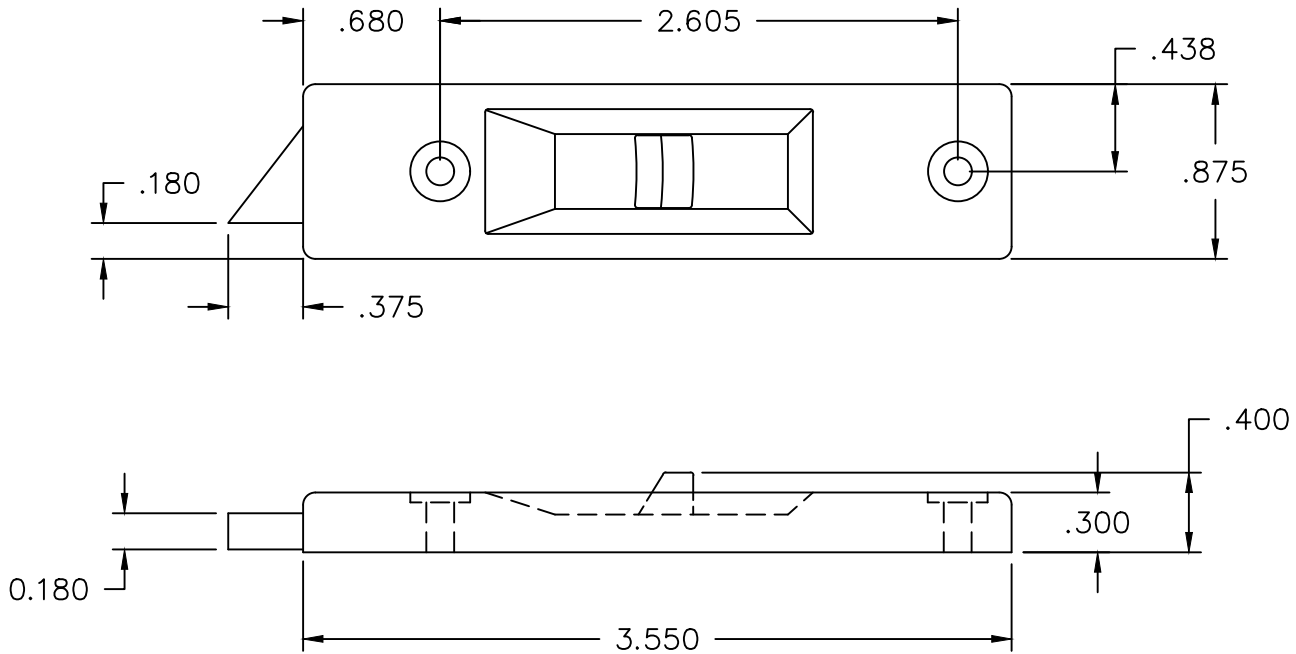
THE VINYL COMPANY

P-7707

		DIE NO. P-7707
DATE	REVISION	BY
		

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PART NO.



RIGHT HAND SHOWN, LEFT HAND OPPOSITE

COLOR	PART NUMBER	
	LEFT HAND	RIGHT HAND
WHITE	P40115	P40116
BRONZE	P40117	P40118
SANDSTONE	P40119	P40120
ALMOND	P40121	P40122
CLAY	P40123	P40124

	Molimo™ Architectural Product Testing
Report #:	31775.01-109-11
Date:	10/8/2025
By:	Michael Matovcik

BUL. GEN-338 New release. tgt
7/2/2019

TOLERANCE NOT NOTED DEC. $\pm .005$ FRAC $\pm 1/64$

SCALE: FULL

CROFT, LLC

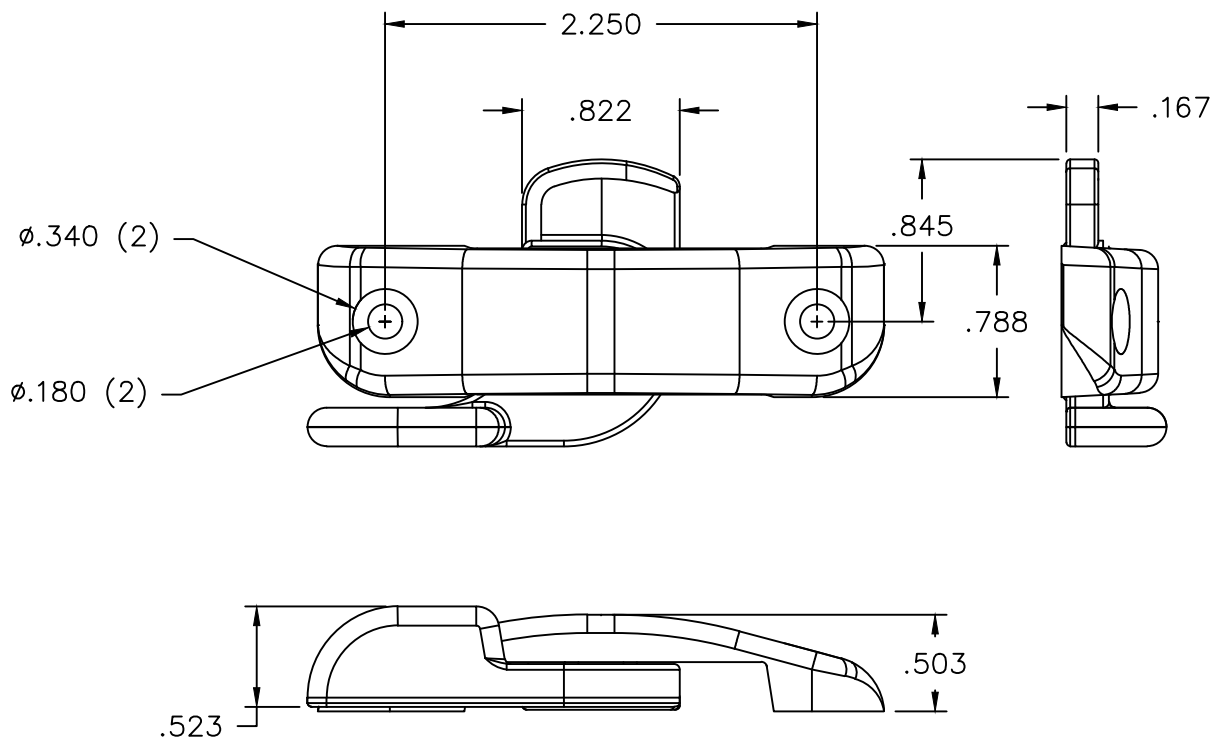
Copyright © CROFT, LLC

MATL. POLYMER			PRODUCT ALL TILT WINDOWS	SECT. .	
DRWN. BY	tgt	DATE 6/28/19		WT. .	#/FT.
CKD. BY		DATE	PART TILT LATCH	PRINT NO.	
APP'D BY		DATE		0000-727	

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PART NO.



RIGHT HAND


Molimo
 Architectural Product Testing

Report #: 31775.01-109-11
 Date: 10/8/2025
 By: Michael Matovcik

FINISH	PART NO.
WHITE	P40090
ALMOND	P40091
CLAY	P40092
BLACK	P40143

GEN-334 New release.	tgt 07/13/18
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TOLERANCE NOT NOTED DEC. $\pm .005$ FRAC $\pm 1/64$

SCALE: 1:1

CROFT, LLC

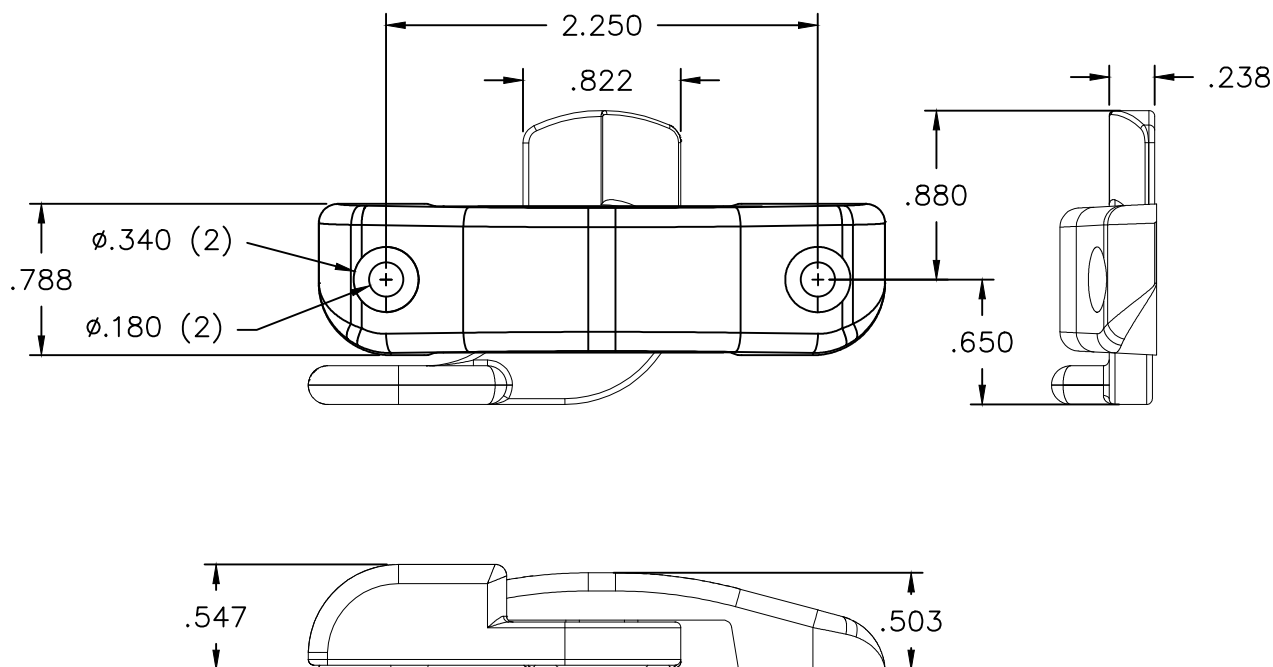
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MATL. POLYMER			PRODUCT	SECT.
DRWN. BY	tgt	DATE 07/13/18	20 / 50	WT. #/FT.
CKD. BY		DATE	PART	PRINT NO.
APP'D BY		DATE	CAMLOCK	0020-722

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PART NO.



RIGHT HAND

Molimo™
Architectural Product Testing
Report #: 31775.01-109-11
Date: 10/8/2025
By: Michael Matovcik

FINISH	PART NO.
WHITE	P40138
ALMOND	P40139
CLAY	P40140
BLACK	P40142

0020-050 New release.	zas 05/13/24
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TOLERANCE NOT NOTED DEC. $\pm .005$ FRAC $\pm 1/64$

SCALE: 1:1

CROFT, LLC

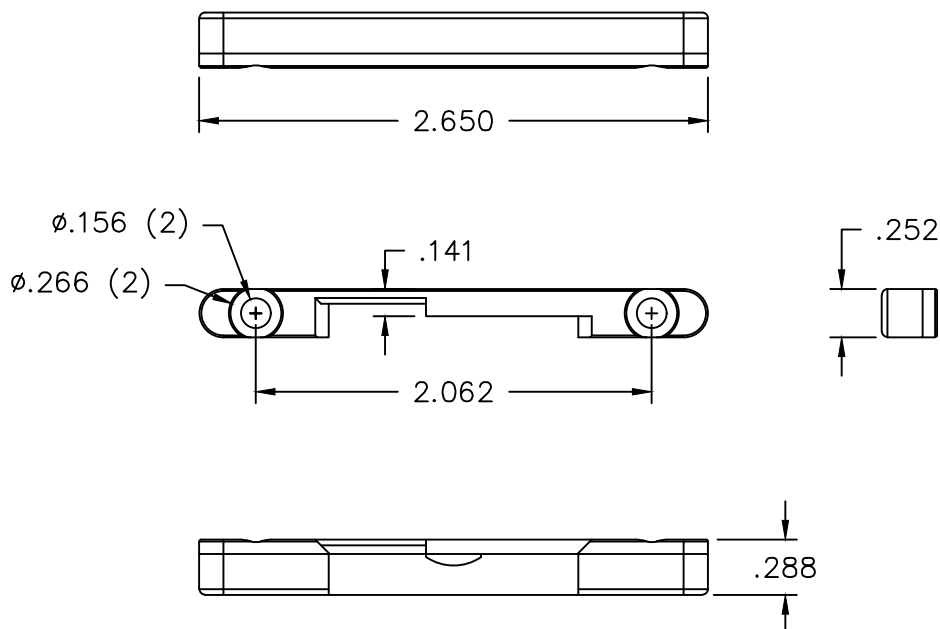
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MATL. POLYMER			PRODUCT 20 - R20/R35	SECT.	
DRWN. BY	tgt	DATE 07/13/18		WT.	#/FT.
CKD. BY		DATE	PART SWEEPLOCK	PRINT NO.	
APP'D BY		DATE		0020-725	

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PART NO.



Molimo
Architectural Product Testing

Report #: 31775.01-109-11

Date: 10/8/2025

By: Michael Matovcik

FINISH	PART NO.
WHITE	P40093
ALMOND	P40094
CLAY	P40095
BLACK	P40096

GEN-334 New release. tgt 07/13/18

TOLERANCE NOT NOTED DEC. $\pm .010$ FRAC $\pm 1/64$

SCALE: FULL

CROFT, LLC

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MATL. FILLED NYLON			PRODUCT 20 / 50	SECT. WT. #/FT.
DRWN. BY	tgt	DATE 07/17/18		
CKD. BY		DATE	PART KEEPER	PRINT NO. 0020-723
APP'D BY		DATE		

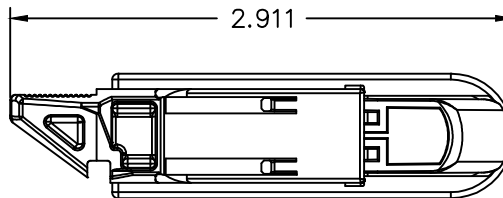
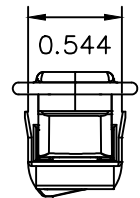
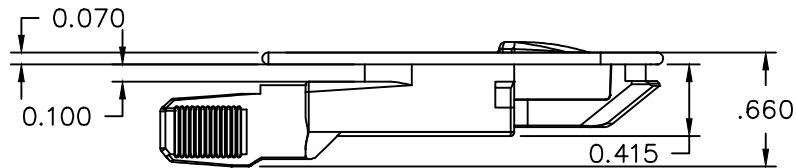
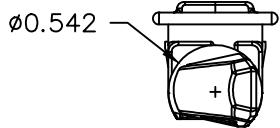
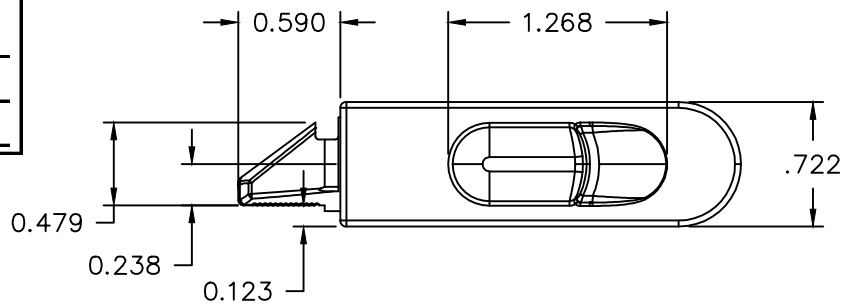
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LAWRENCE #: 503-234/504-234



Molimo™
 Architectural Product Testing

Report #: 31775.01-109-11
 Date: 10/8/2025
 By: Michael Matovcik



RIGHT HAND SHOWN, LEFT HAND OPPOSITE

COLOR	PART NUMBER	
	LEFT HAND	RIGHT HAND
WHITE	P20528	P20527
ALMOND	P20530	P20529
CLAY	P20532	P20531
BLACK	P20534	P20533

BUL. GEN-338 New release.	tgt 7/2/2019
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TOLERANCE NOT NOTED DEC. ± .005 FRAC ± 1/64

SCALE: FULL

CROFT, LLC

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MATL. POLYMER

PRODUCT

SECT. .

DRWN. BY

tgt

DATE 6/28/19

VINYL TILT WINDOWS

WT. . #/FT.

CKD. BY

DATE

PART

SUBMARINE TILT LATCH

PRINT NO.

0000-733

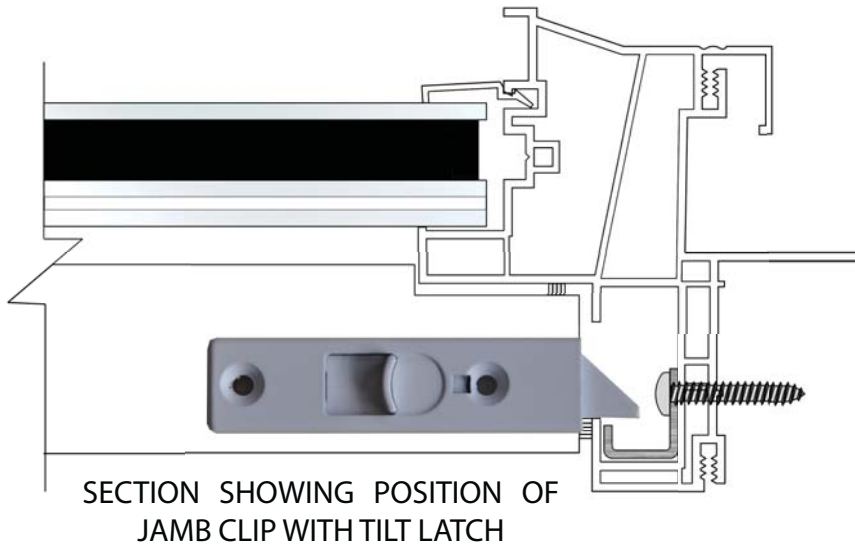
APP'D BY

DATE

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FOUR-JAKS IMPACT TILT LATCH & CLIP



SECTION SHOWING POSITION OF
JAMB CLIP WITH TILT LATCH



Molimo™
Architectural Product Testing

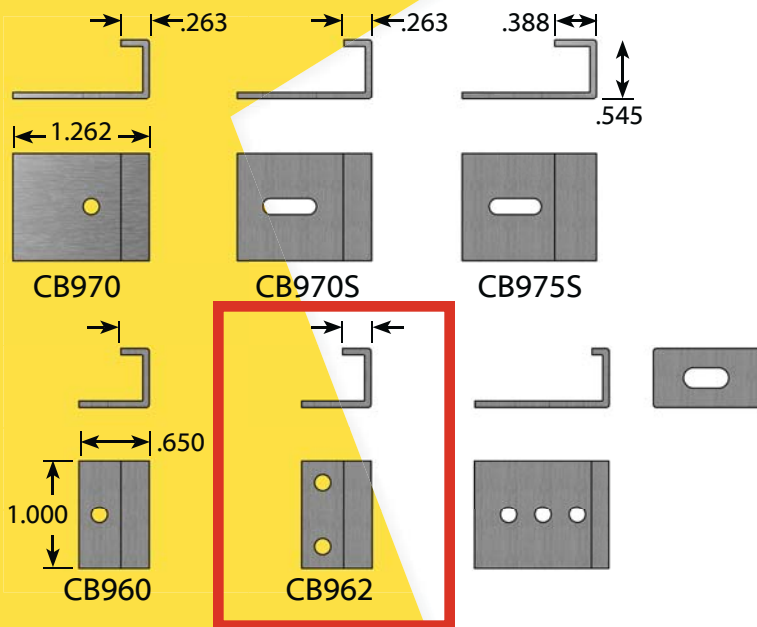
Report #: 31775.01-109-11

Date: 10/8/2025

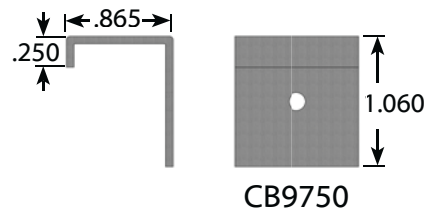
By: Michael Matovcik

Tested for Zone3 Impact
in the Chelsea 9290 series
Single hung Window

1/2" CLIPS

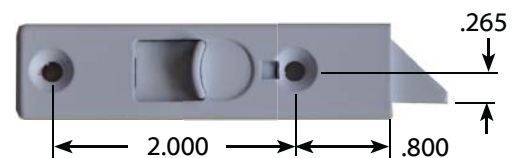


3/4" CLIP



800 SURFACE LATCH

COLORS: WHITE, CLAY, BEIGE & BLACK



L-M800HBR (RIGHT)

L-M800HBL (LEFT)

PH. 304.645.6716 - FC. 304.645.4885

107 SPRUCE STREET - LEWISBURG, WV 24901