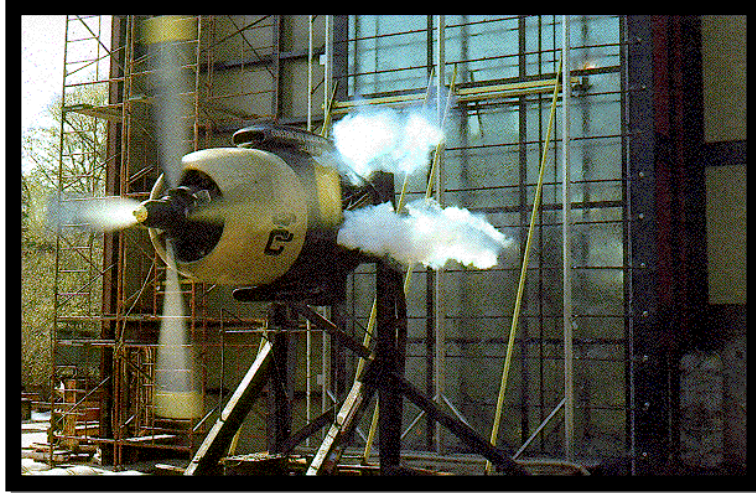




CONSTRUCTION CONSULTING LABORATORY



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

Product/Type: PVC Single Slider Window
Series Model: 2700 Single Slider

Report: CCL 22-157.a (r)

September 13, 2022

Prepared for:

MASTER WINDOW SYSTEMS

5070 Nifda Drive SE
Atlanta, GA 30339

Product Type: Single Slider Window

Series / Model 2700

Test Completion 6-2-22

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

Specimen	Title	Summary of Results
1	Product Designator	R-PG 20 2743 x 1600 (108 x 63)-HS
	Operating Force	Open / 38 N (8.5 Lbs.)
	Latching Devices	Unlock / 6 N (1.4 Lbs.)
	Design Pressure	+/- 960 Pa (20.05 Psf)
	Air Infiltration 1.57	0.55 L/s•m ² (0.11 cfm/ ft ²)
	Water Resistance	150 Pa (3.13 Psf) ^{Note 1}
	150% Design Pressure	+/- 1440 Pa (30.08 Psf) ^{Note 2}
Note 1: With and without exterior screen		



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AAMA/WDA/DMA/CSA 101/I.S.2/A440-17 PERFORMANCE TESTING	DATE: 9-13-2022
CLIENT: CHELSEA BUILDING PRODUCTS	PROJECT: 2700 SINGLE SLIDER


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APPENDIX:

APPENDIX A: SERIES 2700 SINGLE SLIDER WINDOW DRAWINGS

Refer to specimen drawings in **Appendix A**. This report is not complete unless these drawing are stamped and initialed by **CCL** as illustrated below.

Drawing	Part #	Rev / Date	Stamped as Illustrated
Assembly / BOM			
Main Frame	9214	10-17-13	
Fixed Interlock/ Meeting Stile	9257	9-29-11	
Fixed Interlock Stiffener	9252	9-06-11	
Sash Interlock / Meeting rail	9006	10-21-13	
Sash Interlock Stiffener	9071	3-17-06	
Sash Rail	9008	10-21-13	
Sash Pull Stile	9005	10-21-13	
Slider Sill Track	9247	11-04-04	
Glazing Bead	9216	6-20-13	
Glazing Bead	716 A	10-17-11	
Interlock Clip	VCP028	2-28-22	

S-UNITED, INC.

A Quality Control Company



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1. PROJECT DATA

Project	Test Completed	Test Location
AAMA Performance Testing	6-2-22	CCL – Carrollton, Texas
Witnessed by	All or Partial Viewing	
CBP	Scott Cyphert	
Construction Consulting Laboratory	Edsson Alarcon	Juvenal Azua

2. SUMMARY

Series	Product Type	Test Size	Positive DP	Negative DP
2700	Single Slider	9'-0" x 5'-3"	960 pa (20.05 Psf)	960 pa (20.05 Psf)

3. TEST SPECIMEN

Product Type:	Single Slider Window, Product Drawings, Appendix A			
Series Model:	2700			
Specification:	AAMA/WDMA/CSA 101/I.S.2/A440-17 -R-PG20 / 2743 x 1600 (108 x 63)-H			
Frame Size:	2743 x 1600 mm (9'-0" x 5'-3")	Fixed DLO	845 x 1492 mm (33 1/4" x 58 3/4")	
Operable Sash:	921 x 1549 mm (36 1/4" x 61.0")	Sash DLO	848 x 1473 mm (33 3/8" x 58.0")	
Configuration:	X.O.X			

Weather Stripping: 4.75 mm (0.187") backing pile weather-strip with integral plastic fin: One (1) row 6.35 mm (0.250" thickness) at the interior face fixed interlocks and one (1) row at the exterior face of sash interlocks. One (1) row at the lateral face of sash top and bottom rails. One (1) row at the interior face of frame members, full perimeter

Weep Arrangement: One (1) 25.4 x 6.35 mm (1" x 1/4") weep slot with weep gate located at exterior face of frame sill spaced 76.2 mm (3") from each end (2-total). One (1) 25.4 x 4.76 mm (1" x 3/16") weep slot at sill slant leg spaced 4.45 mm (1 3/4") from each end and below frame fixed interlocks (4-total). One (1) 3/8" x 1/4" oval weep in top of frame sill spaced 63.5 mm (2 1/2") from each frame jamb. One (1) 6.35 x 3.17 1/4" x 1/8" weep slot at top of frame sill inside glazing bead pocket spaced 3.75 mm (1/8") from each jamb (2-total). Roller track cut back from sill pocket 12.7 mm (1/2") from each end.

Glass: 19.05 mm (3/4") overall thickness Sealed Insulating Glass (SIG): Two (2) pieces, 2.38 mm (3/32") annealed glass with 14.28 mm (9/16") butyl air spacer.

Hardware: Plastic composite sweep lock located 177.8 mm (7") on center from each end of sash interlock stile attached with two (2), #6 x 19.05 mm (3/4") PH screws per lock. Locks engage a plastic composite keeper at fixed interlock stile attached with two (2) #6 x 19.05 mm (3/4") PH screws per keeper. One nylon roller housing with a pair of nylon rollers at each end of sash bottom rail.

Reinforcement: Extruded hollow aluminum part # 9071 at sash interlocks. Extruded solid aluminum part# 9252 at fixed interlocks

Glazing: Fixed lite is interior glazed with silicone sealant at exterior and PVC glazing bead part# 9216 at interior. Sash is exterior glazed, with silicone sealant at the interior and PVC glazing bead part# 716A at the exterior.

Sealant: See Glazing, see Installation



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	PAGE 2

Test Buck	Test fixture / buck included a nominal 50.8 x 101.6 mm (2" x 4") SPF lumber perimeter frame wrapped with a nominal 50.8 x 254 mm (2" x 10") SPF lumber perimeter frame. The Max RO of the 2" x 4" buck was the specimen frame dimension plus 6.35 mm (1/4"). The frame was sealed to the buck with silicone sealant.
Installation Features	Installed from the exterior with the window mounting flange set in silicone and secured to the test buck with #8 x 63.5 mm (2 1/2") washer head screws spaced 76.2 mm (3") from each end and on 304.8 mm (12") centers.
Other Features	Frame and sash corners are mitered and welded. Fixed interlock attached at each end to frame head and sill using one (1) zinc clip attached to interlocks with two (2) #6 x 15.87 mm (5/8") countersunk screws and to frame member with two (2) #6 x 25.4 mm (1") countersunk screws.

4. PERFORMANCE RESULTS

<u>Test</u>	<u>Title of Test</u>	<u>Test Method</u>	<u>Measured</u>	<u>Allowed</u>
9.3.1	Operating Force Break away		38 N (8.5 lbs.)	230 N (51.71 lbs.)
	Open		29 N (6.5 lbs.)	155 N (40.47 lbs.)
	Close		36 N (8.0 lbs.)	155 N (40.47 lbs.)
9.3.1.3	Latching Devices		6 N (1.4 lbs.)	100 N (22.48 lbs.)
9.3.2	Air Infiltration	ASTM E 283	0.55 L/s•m ²	1.5 L/s•m ²
	@ 75 Pa (1.57 Psf)		(0.11 cfm/ft ²)	(0.30 cfm/ft ²)
Test results reported at the request of the manufacture.				
9.3.3	Water Resistance	ASTM E 547	(With and without screen)	
	150 Pa (3.13 Psf)		No Leakage	No Leakage
9.3.4.2	Deflections @ Interlock	ASTM E 330	Span 1549.4 mm (61.0")	
	960 Pa (20.05 Psf) Positive		39.68 mm (1.25)	Reported
	960 Pa (20.05 Psf) Negative		38.1 mm (1.50")	Reported
9.3.4.3	Uniform Load Structural	ASTM E 330		
	@ 1440 Pa (30.08 Psf) Positive		No Damage	No Damage
	-Permanent Set		3.18 mm (.125")	5.91 mm (.233")
	@ 1440 Pa (30.08 Psf) Negative		No Damage	No Damage
	-Permanent Set		4.69 mm (.185")	5.91 mm (.233")
2-mil plastic used to seal against air loss during uniform loading. The plastic sheeting did not influence the structural performance of the test specimen				
9.3.5	Forced Entry Resistance	ASTM F 588-07		
	Grade 10		No Entry	No Entry
9.3.6.3	Deglazing Test			
	Rails @ 222 N (50 lbs.)		Pass	Movement <10%
	Stiles @ 311 N (70 lbs.)		Pass	Movement <10%
9.3.6.2	Thermoplastic Corner Weld Test	A440-17	Pass	Not extend down weld line
Detailed extrusion and assembly drawings indicating measured wall thickness and corner construction are on file and were compared to the test sample submitted. These records will be retained at CCL for a period of four years. The above results were obtained by using the designated test methods indicating compliance with the above specification				



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	P A G E 3

5. DISCLAIMER

This report does not constitute certification of this product, which may only be granted by the program administrator.

CONSTRUCTION CONSULTING LABORATORY



EDSSON ALARCON
QUALITY CONTROL MANAGER
SIGNED ELECTRONICALLY




WESLEY WILSON
LABORATORY MANAGER
SIGNED ELECTRONICALLY



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APPENDIX

PRODUCT DRAWINGS

Drawing	Part #	Rev / Date	Stamped as Illustrated
Assembly / BOM			 <p>CONSTRUCTION CONSULTING LABORATORY, INTERNATIONAL 1601 Luna Road Carrollton, Texas 75006 Phone (972) 242-0556 Report# 22-157, Date 7-29-22 Reviewed BY EA</p>
Main Frame	9214F	10-17-13	
Main Frame / mounting flange	9214	7-30-13	
Fixed Interlock/ Meeting Stile	9257	9-29-11	
Fixed Interlock Stiffener	9252	9-06-11	
Sash Interlock / Meeting rail	9006	10-21-13	
Sash Interlock Stiffener	9071	3-17-06	
Sash Rail	9008	10-21-13	
Sash Pull Stile	9005	10-21-13	
Slider Sill Track	9247	11-04-04	
Glazing Bead	9216	6-20-13	
Glazing Bead	716 A	10-17-11	
Interlock Clip	VCP028	2-28-22	



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BILL OF MATERIALS
Model 9230-HS-T011
New Construction XOX Slider
Revised December 8, 2017

9230hst011.doc page 1 of 2

ITEM	DESCRIPTION	CBP PART#	QTY	MATERIAL/SOURCE	NOTES
1	Master Frame	9214	4	CBP	2
2	Rail	9008	4	CBP	2
3	Lock Stile	9006	2	CBP	2
4	Meeting Stile	9257	2	CBP	2
5	Pull Stile	9005	2	CBP	2
6	Glazing Bead (Fixed)	9216	4	CBP	2
7	Glazing Bead (Vent)	716A	8	CBP	2
8	Sill Track	9247	1	CBP	2
9	Aluminum Stiffener – Lock Stile	9071	2	Keymark	1
10	Aluminum Stiffener – Meeting Stile	9252	2	Keymark	1
11	Anti Lift	9247	2	CBP	2
12	Pass-thru Clip		4	Four-Jaks #VCP028	1
13	Weep Cover		2	Vision #1230	2
14	Roller		4	Vision #1173	1
15	Silicone Glazing Sealant		AR	Pecora #895	1
16	Glazing Block (3/4" x 3/4" x 1/8")		AR	Tremco	1
17	Keeper		2	Vision #9316-00	2,3
18	Lock		2	Vision #671-00	2,3
SCREWS (#410 Stainless Steel or Zinc Plated)					
19	Pass-thru Clip		16	#6 x 1" PH Flat HD Type AB, SMS	
20	Keeper		4	#6 x 3/4" PH Pan HD, Type A, 410 SS "Vyn-L-Hold Screw"	2,3
21	Lock		4	#6 x 3/4" PH Flat HD, Serrated Thread, AFC Industries #SPAX61-CW	2,3
22	Stiffener		AR	#6 x 1/2" PH Flat HD, Type A, 410 SS "Vyn-L-Hold Screw"	
WEATHERSTRIPPING					
23	Center Fin Pile (Lock Rail, Meeting Rail)		AR	.187 x .220	
24	Center Fin Pile (Pull Stile, Rail, Frame)		AR	.187 x .250	
OPTIONAL					
25	Drip Cap	9239/9239M	AR	CBP	2
26	Drip Cap (J Removed)	9236	AR	CBP	2
27	Transom Clip	727	AR	CBP	2
28	1/2" Mullion Clip	749	AR	CBP	2
29	Drywall Receptor	722	AR	CBP	2
30	Jamb Extension Clip	723	AR	CBP	2
31	3/4" Wood Return	738	AR	CBP	2



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New Construction
XOX Slider

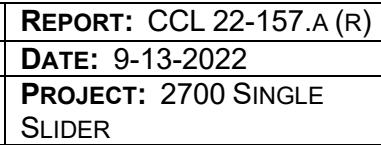
9230hst011.doc
Page 2 of 2

OPTIONAL (cont.)					
32	Structural Mullion	803	AR	CBP	2
33	Trim Kit	9269	AR	CBP	2
34	Screen Clip	9218	AR	CBP	2
35	Steel Stiffener – Lock Stile	9042	2	Elliot Manufacturing	1
36	Steel Stiffener – Meeting Stile		2	Elliot Manufacturing	1
37	Composite Stiffener – Lock Stile	9078	2	CBP	1
38	Composite Stiffener – Meeting Stile	9262	2	CBP	1
39	Non-removable Meeting Stile Screw		8	#6 x 2" PH Pan HD Type AB, SMS	
40	Keeper Screw (Alum or Steel Rebar)		AR	#6 x 3/4" PH Flat HD TEK (Self-drilling)	2,3
41	Lock Screw (Alum or Steel Rebar)		AR	#6 x 3/4" PH Flat HD TEK (Self-drilling)	2,3
42	Stiffener Screw (Alum or Steel Rebar)		AR	#6 x 1/2" PH Flat HD TEK (Self-drilling)	
43	Glazing Tape (1/16" x 3/8")		AR	Lamatek HGT	1
44	Lock		2	Lawrence Industries #2802 Requires fab tooling change	2,3
45	Keeper		2	Lawrence Industries #2600-402 Requires fab tooling change	2,3
46	Weep Cover		2	Gaer #98-03-00-00	1,2
47	Screen Frame		AR	3/8"	2

NOTES:






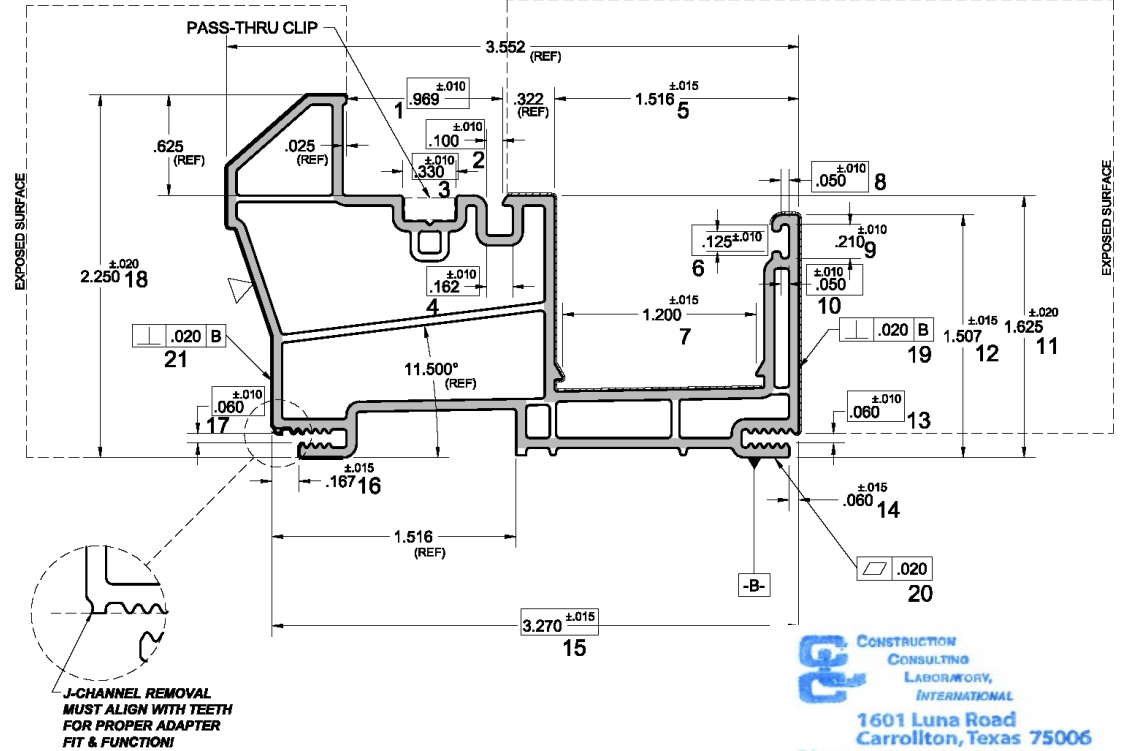
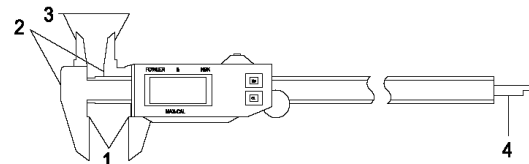
- 1 = Or Approved Equivalent
2 = Specify color (White, Beige, Brown)
3 = For windows over 32" double amount used

No.	Revision	By	Date	Checked By	Approved By
5	Added Vision lock & keeper as standard WO#17292	BLG	12/08/17		
4	Added Lawrence lock & keeper as standard	BLG	09/27/16		
3	Added 9236 Drip Cap	BLG	07/31/13		
2	Revised Truth lock part # from A09000425	DW	9-28-12		
1	BOM Created	EAS	12-05-11		

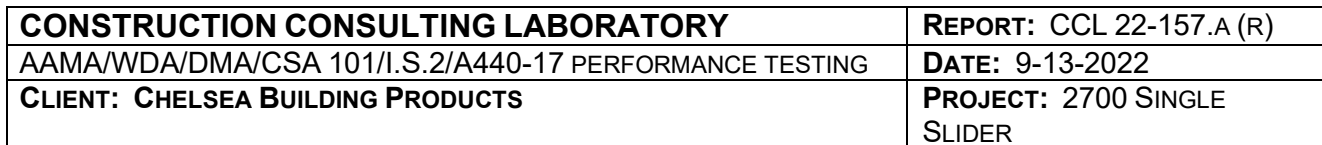




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QC PRINT NUMBER: 9214FQC		DRAWN BY: EAS		CHECKED BY:		APPROVED BY:		DEVELOP		INPROCESS		PRODUCTION																										
PART NAME: 9214F		DESCRIPTION: XO SLIDER FRAME				SUPPLIER/PLANT: CHELSEA BUILDING PRODUCTS																																
ILLUSTRATION OF PART AND CONTROL POINTS																																						
<div>CHELSEA BUILDING PRODUCTS, INC. 565 CEDAR WAY, OAKMONT PA 15139</div> <div><small>COPYRIGHT 2011 THIS DRAWING AND ITS CONTENTS ARE THE SOLE PROPERTY OF CHELSEA BUILDING PRODUCTS, INC. ANY UNAUTHORIZED USE OR REPRODUCTION IS STRICTLY PROHIBITED.</small></div> <div>NOTES: 1. MATERIAL = RIGID P.V.C. 2. FLEXIBLE P.V.C. =  3. EXTERIOR COATING =  4. LAMINATE =  5. THINNER INTERIOR WALLS =  6. WALL THICKNESS = .062 ±.008 7. RADIUS = .020 R 8. LOCATION FOR IMPACT TEST <input checked="" type="checkbox"/> 9. ANGULARITY = <input checked="" type="checkbox"/> 10. PERPENDICULARITY = <input type="checkbox"/> 11. PARALLELISM = <input checked="" type="checkbox"/> 12. FLATNESS = <input checked="" type="checkbox"/> 13. SPECIFICATION LENGTH TO ±3/8" 14. ANGULARITY TO BE ± 1° 15. PROFILE MUST MEET Q-303 PER AAMA SPECIFICATIONS 16. PROFILE MUST MEET Q-304 PER AAMA SPECIFICATIONS 17. PROFILE MUST MEET Q-901 PER AAMA SPECIFICATIONS 18. PROFILE MUST MEET Q-902 IMPACT RESISTANCE PER AAMA SPECIFICATIONS 19. MAX BOW .048in PER 36" LENGTH 20. INTERNAL WALL THICKNESS ±.010 UNLESS OTHERWISE SPECIFIED</div> <div>WEATHERSTRIP SPECIFICATION</div> <table border="1"><thead><tr><th>POSITION</th><th>SIZE</th><th>WEATHERSTRIP TYPE</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr></tbody></table> <div>FUNCTIONAL CHECK</div> <table border="1"><tbody><tr><td>VISION PASS-THRU CLIP #VCP028</td></tr><tr><td>9216 GLAZING BEAD (3/4" GLASS)</td></tr><tr><td>9016 GLAZING BEAD (7/8" GLASS)</td></tr><tr><td>WOOLPILE .187 BACK</td></tr><tr><td>9247 SILL TRACK</td></tr></tbody></table>		POSITION	SIZE	WEATHERSTRIP TYPE				VISION PASS-THRU CLIP #VCP028	9216 GLAZING BEAD (3/4" GLASS)	9016 GLAZING BEAD (7/8" GLASS)	WOOLPILE .187 BACK	9247 SILL TRACK	 <p>J-CHANNEL REMOVAL MUST ALIGN WITH TEETH FOR PROPER ADAPTER FIT & FUNCTION!</p>																									
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		DRAWN DATE: 12-09-11		<div><table border="1"><thead><tr><th>NO.</th><th>REVISION</th><th>BY</th><th>DATE</th></tr></thead><tbody><tr><td>4</td><td>ADDED NAIL FIN CUT-OFF NUB, WO#13185</td><td>BLG</td><td>10/17/13</td></tr><tr><td>3</td><td>REVISED DIMS & TOLS; WO#13153</td><td>EAS</td><td>07-30-13</td></tr><tr><td>2</td><td>REVISED DIMS & TOLS; WO#13136</td><td>EAS</td><td>07-15-13</td></tr><tr><td>1</td><td>ADDED J-CHANNEL REMOVAL NOTE</td><td>EAS</td><td>01-28-13</td></tr></tbody></table><div>CUSTOMER LEN</div><table border="1"><tbody><tr><td> </td><td> </td><td> </td></tr></tbody></table></div>												NO.	REVISION	BY	DATE	4	ADDED NAIL FIN CUT-OFF NUB, WO#13185	BLG	10/17/13	3	REVISED DIMS & TOLS; WO#13153	EAS	07-30-13	2	REVISED DIMS & TOLS; WO#13136	EAS	07-15-13	1	ADDED J-CHANNEL REMOVAL NOTE	EAS	01-28-13			
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1	ADDED J-CHANNEL REMOVAL NOTE	EAS	01-28-13																																			
<div>Use the calliper diagram as your guide to measure the following control points. Measure the following control points using #1 on the calliper diagram: Measure the following control points using #2 on the calliper diagram: Measure the following control points using #3 on the calliper diagram: Measure the following control points using #4 on the calliper diagram:</div> <div>Frequency of sampling: Process Specialist- 3 samples per shift recorded every 4 hours. Auditor- 1 sample per shift recorded 1 hour after shift start.</div> <div>IF ANY CONTROL POINTS ARE NOT IN SPEC. CORRECTIVE ACTION REQUIRED</div>																																						

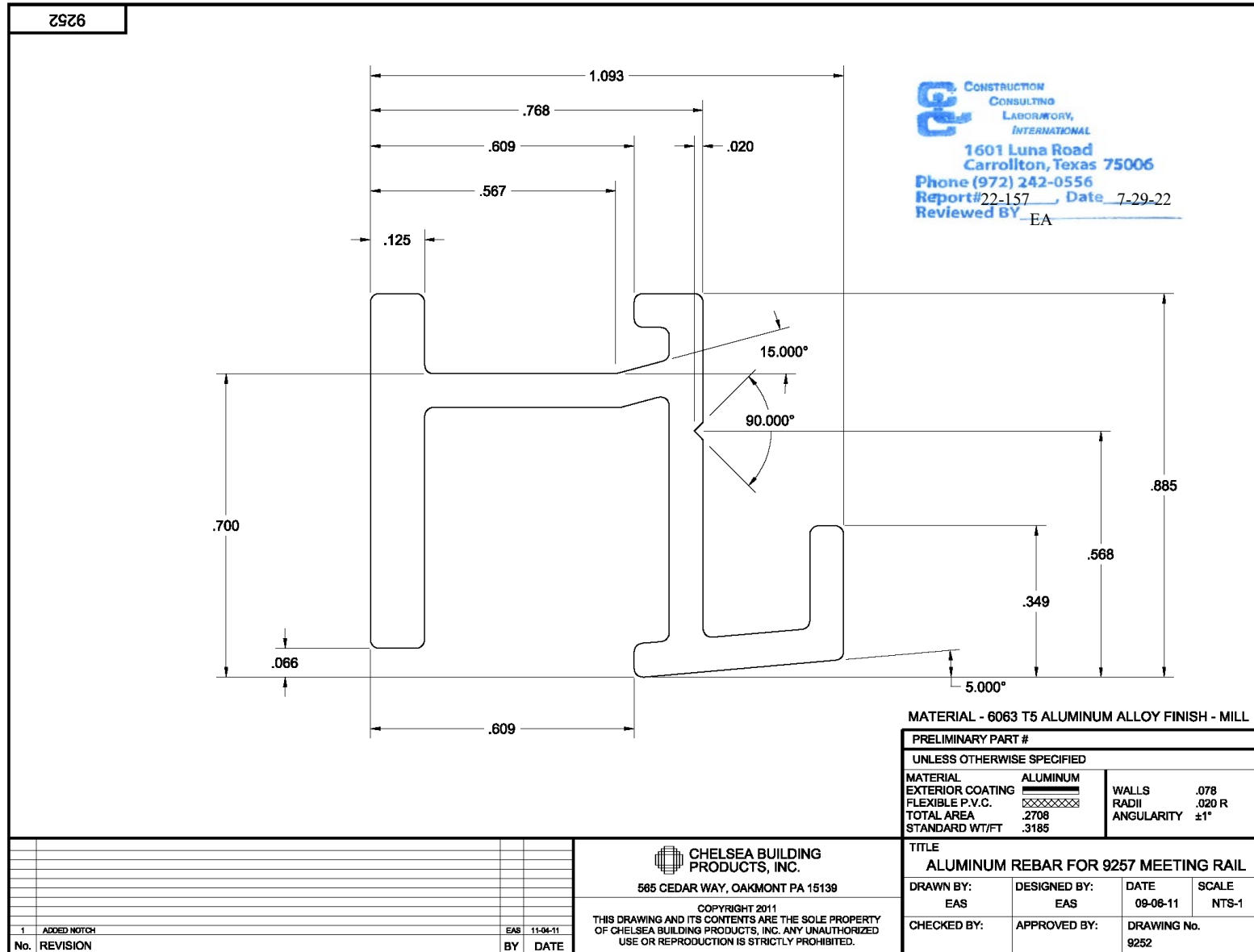
QC PRINT NUMBER:		9214QC	DRAWN BY:	EAS	CHECKED BY:	[]	APPROVED BY:	[]	DEVELOP	INPROCESS	PRODUCTION																												
PART NAME:		DESCRIPTION:		SUPPLIER/PLANT:																																			
9214		XO SLIDER FRAME		CHELSEA BUILDING PRODUCTS																																			
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 CHELSEA BUILDING PRODUCTS, INC. <small>565 CEDAR WAY, OAKMONT PA 15139</small> <small>COPYRIGHT 2011 THIS DRAWING AND ITS CONTENTS ARE THE SOLE PROPERTY OF CHELSEA BUILDING PRODUCTS, INC. ANY UNAUTHORIZED USE OR REPRODUCTION IS STRICTLY PROHIBITED.</small> NOTES: 1. MATERIAL = RIGID P.V.C. 2. FLEXIBLE P.V.C. = [Pattern] 3. EXTERIOR COATING = [Pattern] 4. LAMINATE - [Pattern] 5. THINNER INTERIOR WALLS = [Pattern] 6. WALL THICKNESS = .062 ± .006 7. RADIUS = .020 R 8. LOCATION FOR IMPACT TEST [X] 9. ANGULARITY = [Symbol] 10. PERPENDICULARITY = [Symbol] 11. PARALLELISM = [Symbol] 12. FLATNESS = [Symbol] 13. SPECIFICATION LENGTH TO ±.3/8" 14. ANGULARITY TO BE ± 1° 15. PROFILE MUST MEET Q-303 PER AAMA SPECIFICATIONS 16. PROFILE MUST MEET Q-304 PER AAMA SPECIFICATIONS 17. PROFILE MUST MEET Q-301 PER AAMA SPECIFICATIONS 18. PROFILE MUST MEET Q-302 IMPACT RESISTANCE PER AAMA SPECIFICATIONS 19. MAX BOW .048in PER 3ft LENGTH 20. INTERNAL WALL THICKNESS ±.010 UNLESS OTHERWISE SPECIFIED WEATHERSTRIIP SPECIFICATION <table border="1" style="width: 100%;"> <thead> <tr> <th>POSITION</th> <th>SIZE</th> <th>WEATHERSTRIIP TYPE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> FUNCTIONAL CHECK VISION PASS-THRU CLIP #VCP028 9216 GLAZING BEAD (.3/4" GLASS) 9016 GLAZING BEAD (7/8" GLASS) WOOLPILE .167 BACK 9247 SILL TRACK 723 JAMB EXTENSION CUP (INTERIOR POCKET ONLY)		POSITION	SIZE	WEATHERSTRIIP TYPE							<p>The technical drawing shows a cross-section of the XO slider frame profile. Key features include: <ul style="list-style-type: none"> A central channel labeled "PASS-THRU CLIP". Various dimensioned sections numbered 1 through 25. Tolerances such as ±.010, ±.005, ±.015, etc., are specified throughout. Reference dimensions like 3.552 (REF), 1.322 (REF), and 11.500" (REF). Surface indicators for flatness, parallelism, perpendicularity, and angularity. An impact test location marked at point 8. Exposed surfaces indicated by dashed lines. </p>																												
POSITION	SIZE	WEATHERSTRIIP TYPE																																					
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">NO. / REVISION</th> <th colspan="2">DATE</th> <th colspan="2">BY</th> <th>CUSTOMER LENGTH</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>REVISED DIMS & TOLS: WO#13153</td> <td>EAS</td> <td>07-30-13</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>REVISED DIMS & TOLS: WO#13138</td> <td>EAS</td> <td>07-15-13</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">DRAWN DATE: 12-09-11</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>										NO. / REVISION		DATE		BY		CUSTOMER LENGTH	2	REVISED DIMS & TOLS: WO#13153	EAS	07-30-13				1	REVISED DIMS & TOLS: WO#13138	EAS	07-15-13				DRAWN DATE: 12-09-11						
NO. / REVISION		DATE		BY		CUSTOMER LENGTH																																	
2	REVISED DIMS & TOLS: WO#13153	EAS	07-30-13																																				
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DRAWN DATE: 12-09-11																																							
Use the caliper diagram as your guide to measure the following control points: Measure the following control points using #1 on the caliper diagram: Measure the following control points using #2 on the caliper diagram: Measure the following control points using #3 on the callper diagram: Measure the following control points using #4 on the caliper diagram: Frequency of sampling: Process Specialists= 3 samples per shift recorded every 4 hours, Auditor= 1 sample per shift recorded 1 hour after shift start.		<p>The caliper diagram illustrates how to take measurements from different parts of the profile: <ul style="list-style-type: none"> #1: Measures across the main body width. #2: Measures the depth of the internal channel. #3: Measures the thickness of the outer wall. #4: Measures the distance between specific features. </p>																																					
IF ANY CONTROL POINTS ARE NOT IN SPEC, CORRECTIVE ACTION REQUIRED																																							



SINCE 1974








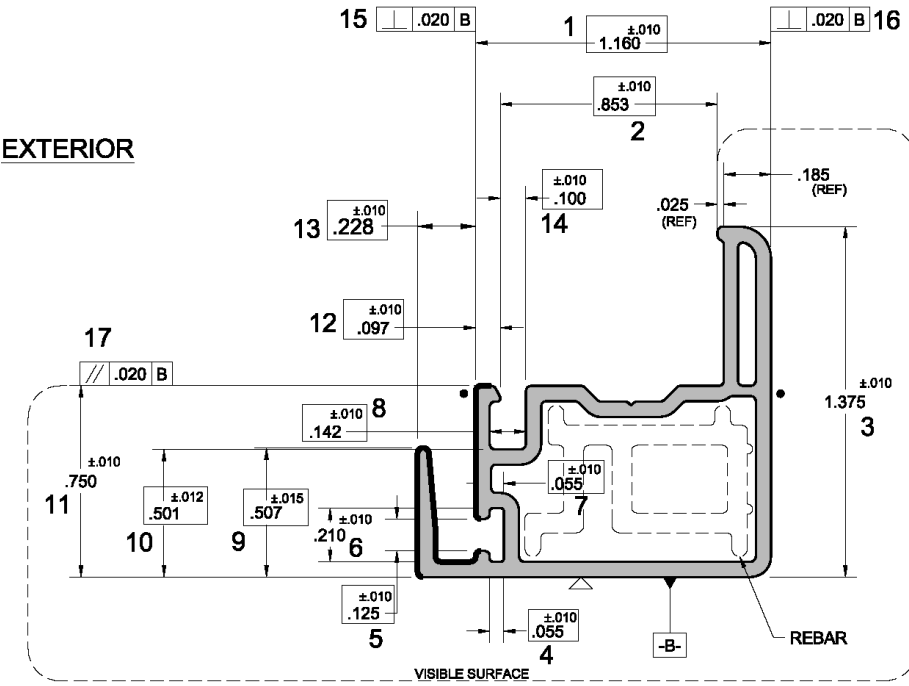
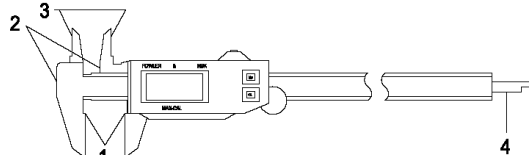
CONSTRUCTION CONSULTING LABORATORY	REPORT: CCL 22-157.A (R)
AAMA/WDA/DMA/CSA 101/I.S.2/A440-17 PERFORMANCE TESTING	DATE: 9-13-2022
CLIENT: CHELSEA BUILDING PRODUCTS	PROJECT: 2700 SINGLE SLIDER





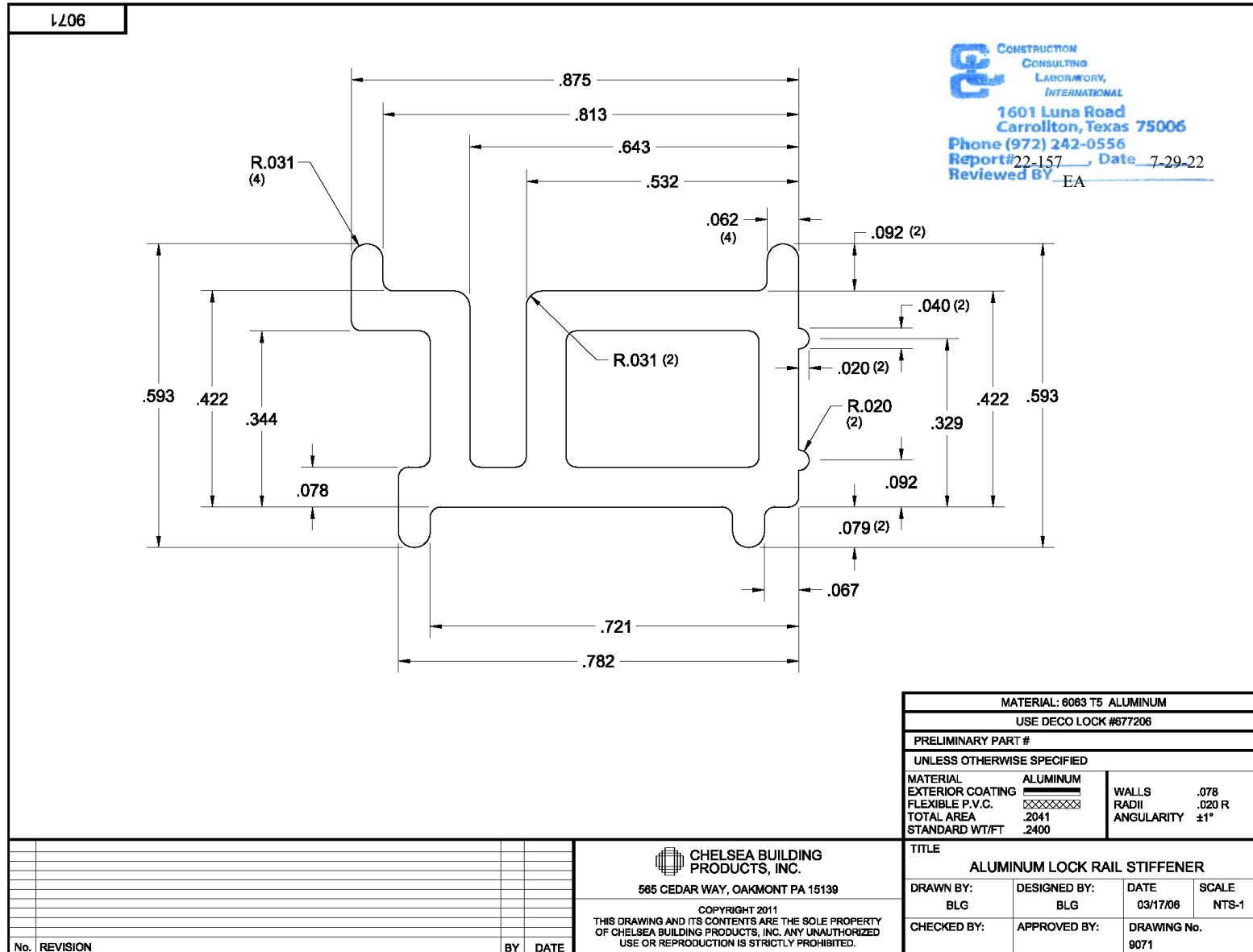
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AAMA/WDA/DMA/CSA 101/I.S.2/A440-17 PERFORMANCE TESTING	DATE: 9-13-2022
CLIENT: CHELSEA BUILDING PRODUCTS	PROJECT: 2700 SINGLE SLIDER

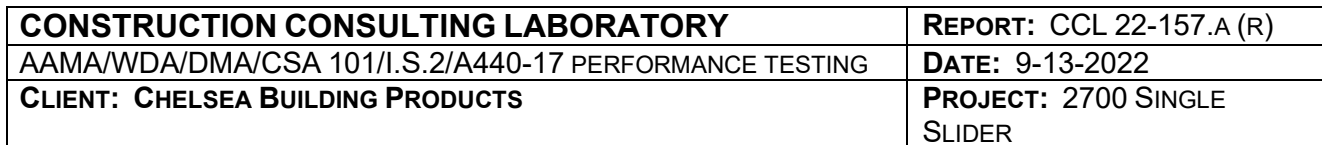
QC PRINT NUMBER:	9006qc	DRAWN BY: EAS	CHECKED BY:	APPROVED BY:	DEVELOP	INPROCESS	PRODUCTION
PART NAME:	9006	DESCRIPTION:	LOCK RAIL/STILE				
		SUPPLIER/PLANT:	CHELSEA BUILDING PRODUCTS				

 CHELSEA BUILDING PRODUCTS, INC. 505 CEDAR WAY, OAKMONT PA 15139		ILLUSTRATION OF PART AND CONTROL POINTS																													
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<p>DRAWN DATE: 06-25-03</p>		<table border="1"><thead><tr><th>NO.</th><th>REVISION</th><th>BY</th><th>DATE</th></tr></thead><tbody><tr><td>7</td><td>ADDED DIM .501 (#10); WO#13188</td><td>BLG</td><td>10/21/13</td></tr><tr><td>6</td><td>REVISED FOR NEW TOOL, REVISED DIMS AND TOLS, WO#13141</td><td>EAS</td><td>07-18-13</td></tr><tr><td>5</td><td>MADE DIM 15 CRITICAL; WO#1293</td><td>JPP</td><td>05-13-11</td></tr><tr><td>4</td><td>UPDATED DIM 4 TO MATCH TOP HALF</td><td>JPP</td><td>05-07-09</td></tr><tr><td>3</td><td>.878 DIM WAS .853 TO NUB; ADDED .100 DIM; .050 DIMS WERE ±.010; RENUMBERED</td><td>EAS</td><td>06-11-07</td></tr><tr><td>2</td><td>REVISED TOLS ON 12,13</td><td>JPP</td><td>02-02-05</td></tr></tbody></table>		NO.	REVISION	BY	DATE	7	ADDED DIM .501 (#10); WO#13188	BLG	10/21/13	6	REVISED FOR NEW TOOL, REVISED DIMS AND TOLS, WO#13141	EAS	07-18-13	5	MADE DIM 15 CRITICAL; WO#1293	JPP	05-13-11	4	UPDATED DIM 4 TO MATCH TOP HALF	JPP	05-07-09	3	.878 DIM WAS .853 TO NUB; ADDED .100 DIM; .050 DIMS WERE ±.010; RENUMBERED	EAS	06-11-07	2	REVISED TOLS ON 12,13	JPP	02-02-05
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CONSTRUCTION CONSULTING LABORATORY	REPORT: CCL 22-157.A (R)
AAMA/WDA/DMA/CSA 101/I.S.2/A440-17 PERFORMANCE TESTING	DATE: 9-13-2022
CLIENT: CHELSEA BUILDING PRODUCTS	PROJECT: 2700 SINGLE SLIDER





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NOTES:

1. MATERIAL = RIGID P.V.C.
2. FLEXIBLE P.V.C. =
3. EXTERIOR COATING =
4. LAMINATE =
5. THINNER INTERIOR WALLS =
6. WALL THICKNESS = .080 ±.006
7. RADIUS = .020
8. LOCATION FOR IMPACT TEST ☒
9. ANGULARITY =
10. PERPENDICULARITY =
11. PARALLELISM =
12. FLATNESS =
13. SPECIFICATION LENGTH TO ±3/8"
14. ANGULARITY TO BE ± 1°
15. PROFILE MUST MEET Q-303 PER AAMA SPECIFICATIONS
16. PROFILE MUST MEET Q-304 PER AAMA SPECIFICATIONS
17. PROFILE MUST MEET Q-901 PER AAMA SPECIFICATIONS
18. PROFILE MUST MEET Q-902 IMPACT RESISTANCE PER AAMA SPECIFICATIONS
19. MAX BOW .046in PER 3ft LENGTH
20. INTERNAL WALL THICKNESS ±.010 UNLESS OTHERWISE SPECIFIED

WEATHERSTRIP SPECIFICATION

POSITION	SIZE	WEATHERSTRIP TYPE

FUNCTIONAL CHECK

.187 WOOLPILE

716A GLAZING BEAD

3/4" GLASS BLOCK

9041 STEEL REBAR

9074 ALUMINUM REBAR

9078 COMPOSITE REBAR

DRAWN DATE: 06-25-03

EXTERIOR

INTERIOR

VISIBLE SURFACE

CONSTRUCTION CONSULTING LABORATORY, INTERNATIONAL
1601 Luna Road
Carrollton, Texas
Phone (972) 242-0556
Report# 22-157, Date
Reviewed BY EA

NO.	REVISION	DATE	CUSTOMER LENGTH	CHELSEA CUT LENGTH	TOLERANCE
7	ADDED DIM .501 (#13), WO#13188	10/21/13			
6	REVISED FOR NEW TOOL, REVISED DIMS AND TOLS, WO#13141	EAS 07-16-13			
5	ADDED UPDATED PROFILE, WO#13052	BLG 03/15/13			
4	MADE DIM 17 CRITICAL; WO#1293	JPP 05-13-11			
3	MOVED IMPACT; ADDED .100 DIM; TOLS ON .050 DIMS WERE ±.010; RENUMBERED	EAS 05-14-07			
2	.878 DIM WAS .853 TO NUB	EAS 04-17-07			
1		DATE			

Use the caliper diagram as your guide to measure the following control points.
Measure the following control points using #1 on the caliper diagram.
Measure the following control points using #2 on the caliper diagram.
Measure the following control points using #3 on the caliper diagram.
Measure the following control points using #4 on the caliper diagram.

Frequency of sampling: Process Specialist- 3 samples per shift recorded every 4 hours.
Auditor- 1 sample per shift recorded 1 hour after shift start.

**IF ANY CONTROL POINTS ARE NOT IN SPEC.
CORRECTIVE ACTION REQUIRED**

SINCE 1974



CONSTRUCTION CONSULTING LABORATORY		REPORT: CCL 22-157.A (R)
AAMA/WDA/DMA/CSA 101/I.S.2/A440-17 PERFORMANCE TESTING		DATE: 9-13-2022
CLIENT: CHELSEA BUILDING PRODUCTS		PROJECT: 2700 SINGLE SLIDER

QC PRINT NUMBER:	9247QC	DRAWN BY: JPP	CHECKED BY:	APPROVED BY:	DEVELOP	INPROCESS	PRODUCTION				
PART NAME:	9247	DESCRIPTION:	SILL TRACK					SUPPLIER/PLANT:	CHELSEA BUILDING PRODUCTS		
ILLUSTRATION OF PART AND CONTROL POINTS											

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NOTES:

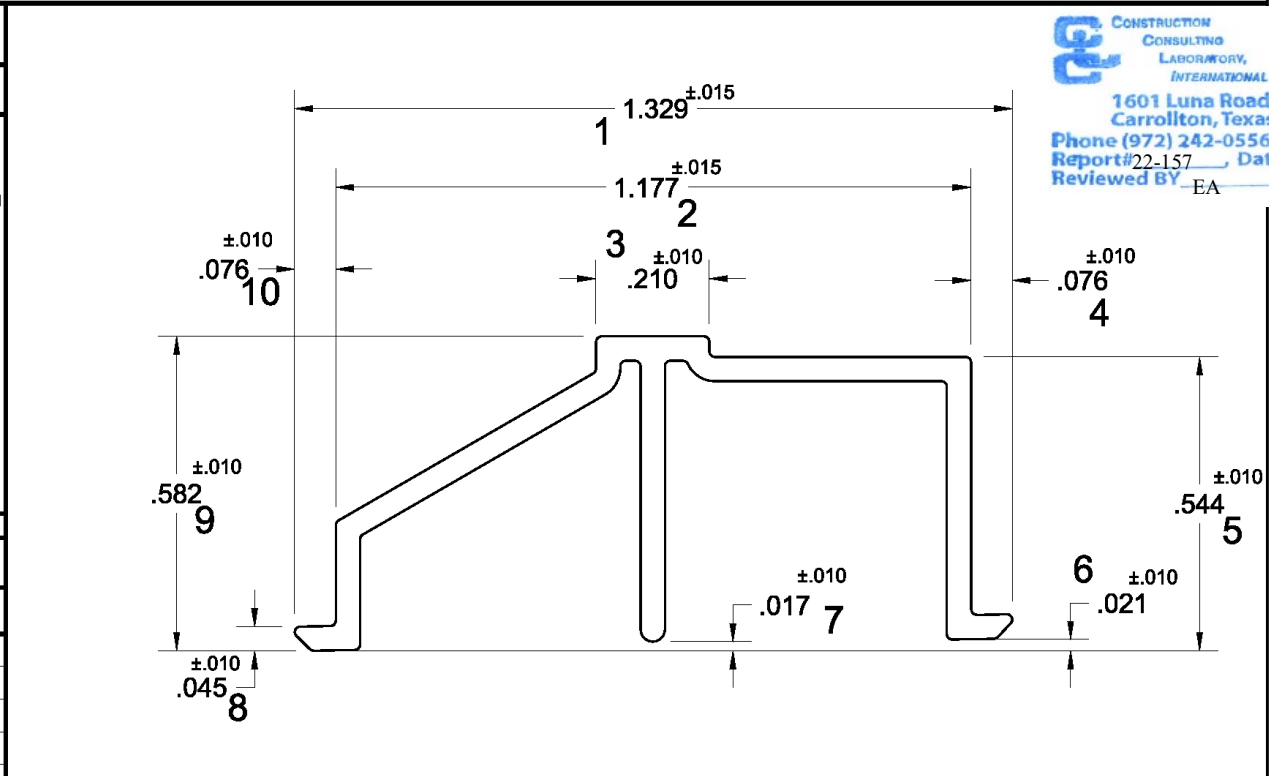
1. MATERIAL = RIGID P.V.C.
2. FLEXIBLE P.V.C. =
3. EXTERIOR COATING =
4. LAMINATE =
5. THINNER INTERIOR WALLS =
6. WALL THICKNESS =
7. RADIUS =
8. LOCATION FOR IMPACT TEST ☒
9. ANGULARITY ☒
10. PERPENDICULARITY =
11. PARALLELISM =
12. FLATNESS =
13. SPECIFICATION LENGTH TO
14. ANGULARITY TO BE $\pm 1^\circ$
15. PROFILE MUST MEET Q-303 $\pm 3/8"$
PER AAMA SPECIFICATIONS
16. PROFILE MUST MEET Q-304
PER AAMA SPECIFICATIONS
17. PROFILE MUST MEET Q-901
PER AAMA SPECIFICATIONS
18. PROFILE MUST MEET Q-902
IMPACT RESISTANCE PER
AAMA SPECIFICATIONS
19. MAX BOW .04in PER 3in LENGTH
20. INTERNAL WALL THICKNESS $\pm .010$
UNLESS OTHERWISE SPECIFIED

WEATHERSTRIP SPECIFICATION

POSITION	SIZE	WEATHERSTRIP TYPE

FUNCTIONAL CHECK

9204 SLIDER FRAME
9224 SLIDER FRAME



CONSTRUCTION CONSULTING LABORATORY, INTERNATIONAL
1601 Luna Road
Carrollton, Texas 75006
Phone (972) 242-0556
Report# 22-157, Date 7-29-22
Reviewed BY EA

CUSTOMER LENGTH	CHELSEA CUT LENGTH	TOLERANCE

DRAWN DATE: 11-04-04

NO.	REVISION	BY	DATE

Use the calliper diagram as your guide to measure the following control points.
Measure the following control points using #1 on the calliper diagram: 1,2,3,8,9
Measure the following control points using #2 on the calliper diagram: 4,10
Measure the following control points using #3 on the calliper diagram:
Measure the following control points using #4 on the calliper diagram:

Frequency of sampling: Process Specialist- 3 samples per shift recorded every 4 hours.
Auditor- 1 sample per shift recorded 1 hour after shift start.

**IF ANY CONTROL POINTS ARE NOT IN SPEC.
CORRECTIVE ACTION REQUIRED**



CONSTRUCTION CONSULTING LABORATORY	REPORT: CCL 22-157.A (R)
AAMA/WDA/DMA/CSA 101/I.S.2/A440-17 PERFORMANCE TESTING	DATE: 9-13-2022
CLIENT: CHELSEA BUILDING PRODUCTS	PROJECT: 2700 SINGLE SLIDER

QC PRINT NUMBER:	716AQC	DRAWN BY: EAS	CHECKED BY:	APPROVED BY:	DEVELOP	INPROCESS	PRODUCTION
PART NAME:	716A	DESCRIPTION:	GLAZING BEAD	SUPPLIER/PLANT:	CHELSEA BUILDING PRODUCTS		

ILLUSTRATION OF PART AND CONTROL POINTS

CHELSEA BUILDING PRODUCTS, INC.
565 CEDAR WAY, OAKMONT PA 15139

- NOTES:**
1. MATERIAL = RIGID P.V.C.
 2. FLEXIBLE P.V.C. =
 3. EXTERIOR COATING =
 4. LAMINATE =
 5. THINNER INTERIOR WALLS =
 6. WALL THICKNESS = .045 ±.005
 7. RADIUS = .010
 8. LOCATION FOR IMPACT TEST ☒
 9. ANGULARITY = ☒
 10. PERPENDICULARITY = ☐
 11. PARALLELISM = ☒
 12. FLATNESS = ☒
 13. SPECIFICATION LENGTH TO
 14. ANGULARITY TO BE ± 1°
 15. PROFILE MUST MEET Q-303 ±3/8" PER AAMA SPECIFICATIONS
 16. PROFILE MUST MEET Q-304 PER AAMA SPECIFICATIONS
 17. PROFILE MUST MEET Q-901 PER AAMA SPECIFICATIONS
 18. PROFILE MUST MEET Q-902 PER AAMA SPECIFICATIONS
 19. MAX BOW .046in PER 3ft LENGTH
 20. INTERNAL WALL THICKNESS ±.010 UNLESS OTHERWISE SPECIFIED

WEATHERSTRIP SPECIFICATION

POSITION	SIZE	WEATHERSTRIP TYPE

FUNCTIONAL CHECK

705 LIFT RAIL
706 LOCK RAIL
707 KEEPER RAIL

DRAWN DATE: 04-24-07

6	ADDED PACK NOTE; WOF#13130	EAS	06-20-13
5	REVISED DIM 6; ADDED CRITICALS PER PLANT MANAGER REQUEST	EAS	06-11-13
4	REVISED BORDER	DRN	05-21-13
3	ADDED FLEX NOTE	DRN	05-21-13
2	REVISED DIM .193 TOL & DIM .128 TOL	EAS	05-12-08
1	REVISED SNAP IN LEG; DIM .193 WAS .198; DIM .128 WAS .138	EAS	06-04-07
NO.	REVISION	BY	DATE

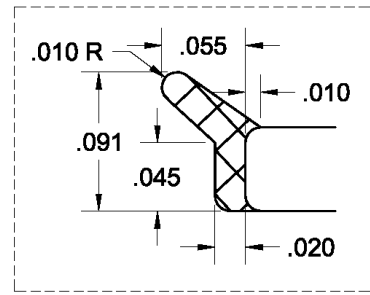
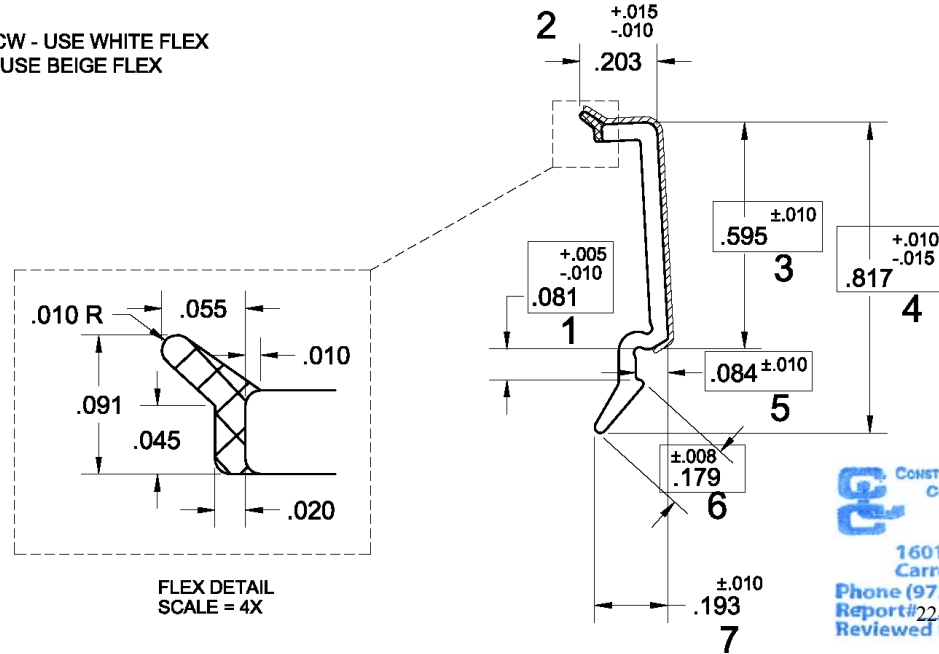
Use the caliper diagram as your guide to measure the following control points.
Measure the following control points using #1 on the caliper diagram: 2,3,4,6,7
Measure the following control points using #2 on the caliper diagram: 5
Measure the following control points using #3 on the caliper diagram: 1
Measure the following control points using #4 on the caliper diagram:

Frequency of sampling: Process Specialist- 3 samples per shift recorded every 4 hours.
Auditor- 1 sample per shift recorded 1 hour after shift start.

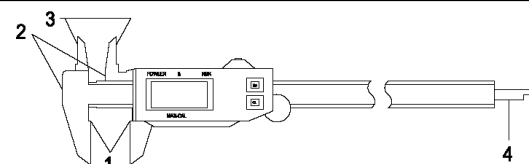
**IF ANY CONTROL POINTS ARE NOT IN SPEC.
CORRECTIVE ACTION REQUIRED**

ALL PARTS ARE TO BE PACKED IN SAME DIRECTION

FLEX
W, OW, CW - USE WHITE FLEX
B, SND - USE BEIGE FLEX



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Carrollton, Texas 75006
Phone (972) 242-0556
Report# 22-157, Date 7-29-22
Reviewed BY -EA





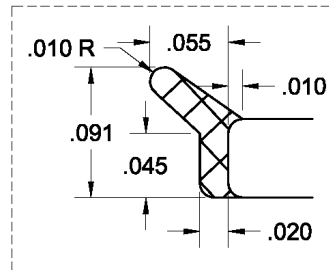
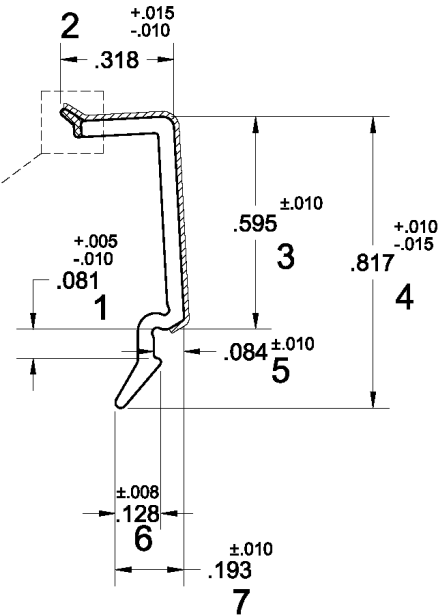
CONSTRUCTION CONSULTING LABORATORY		REPORT: CCL 22-157.A (R)
AAMA/WDA/DMA/CSA 101/I.S.2/A440-17 PERFORMANCE TESTING		DATE: 9-13-2022
CLIENT: CHELSEA BUILDING PRODUCTS		PROJECT: 2700 SINGLE SLIDER

QC PRINT NUMBER:	9216QC	DRAWN BY: EAS	CHECKED BY:	APPROVED BY:	DEVELOP	INPROCESS	PRODUCTION
PART NAME:	DESCRIPTION:		SUPPLIER/PLANT:				
9216	GLAZING BEAD		CHELSEA BUILDING PRODUCTS				

ILLUSTRATION OF PART AND CONTROL POINTS

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NOTES: 1. MATERIAL = RIGID P.V.C. 2. FLEXIBLE P.V.C. = 3. EXTERIOR COATING = 4. LAMINATE = 5. THINNER INTERIOR WALLS = 6. WALL THICKNESS = .045 ± .005 7. RADIUS = .010 8. LOCATION FOR IMPACT TEST <input checked="" type="checkbox"/> 9. ANGULARITY = <input checked="" type="checkbox"/> 10. PERPENDICULARITY = <input type="checkbox"/> 11. PARALLELISM = <input checked="" type="checkbox"/> 12. FLATNESS = <input checked="" type="checkbox"/> 13. SPECIFICATION LENGTH TO ± 3/8" 14. ANGULARITY TO BE ± 1° 15. PROFILE MUST MEET Q-303 PER AAMA SPECIFICATIONS 16. PROFILE MUST MEET Q-304 PER AAMA SPECIFICATIONS 17. PROFILE MUST MEET Q-901 PER AAMA SPECIFICATIONS 18. PROFILE MUST MEET Q-902 PER AAMA SPECIFICATIONS 19. MAX BOW .046in PER 36" LENGTH 20. INTERNAL WALL THICKNESS ± .010 UNLESS OTHERWISE SPECIFIED		
WEATHERSTRIP SPECIFICATION		
POSITION	SIZE	WEATHERSTRIP TYPE
FUNCTIONAL CHECK		
705 LIFT RAIL		
706 LOCK RAIL		
707 KEEPER RAIL		
9210 SH HEAD/PW FRAME		
9213 SH JAMB		
DRAWN DATE: 10-07-11		

CONSTRUCTION CONSULTING LABORATORY, INTERNATIONAL
1601 Luna Road
Carrollton, Texas 75006
Phone (972) 242-0556
Report# 22-157 Date 7-29-22
Reviewed BY EA

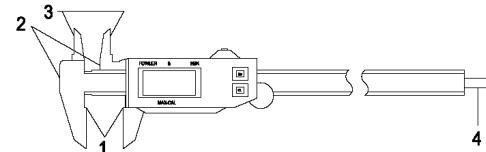
FLEX DETAIL
SCALE = 4X

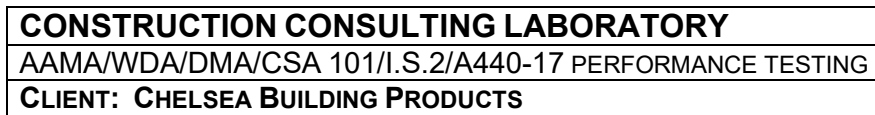
CUSTOMER LENGTH	CHELSEA CUT LENGTH	TOLERANCE

Use the caliper diagram as your guide to measure the following control points.
Measure the following control points using #1 on the caliper diagram: 2,3,4,6,7
Measure the following control points using #2 on the caliper diagram: 5
Measure the following control points using #3 on the caliper diagram: 1
Measure the following control points using #4 on the caliper diagram:

Frequency of sampling: Process Specialist- 3 samples per shift recorded every 4 hours.
Auditor- 1 sample per shift recorded 1 hour after shift start.

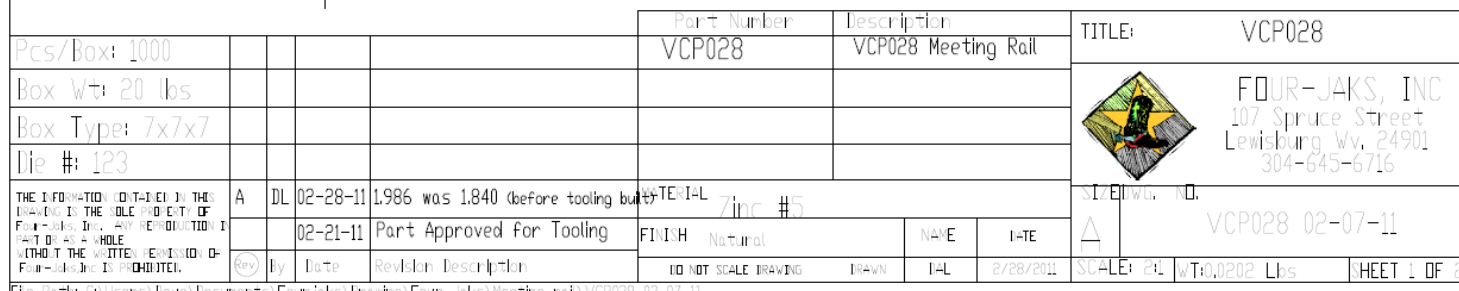
IF ANY CONTROL POINTS ARE NOT IN SPEC.
CORRECTIVE ACTION REQUIRED





DATE: 9-13-2022

PROJECT: 2700 SINGLE SLIDER





CONSTRUCTION CONSULTING LABORATORY	REPORT: CCL 22-157.A (R)
AAMA/WDA/DMA/CSA 101/I.S.2/A440-17 PERFORMANCE TESTING	DATE: 9-13-2022
CLIENT: CHELSEA BUILDING PRODUCTS	PROJECT: 2700 SINGLE SLIDER

END OF REPORT -