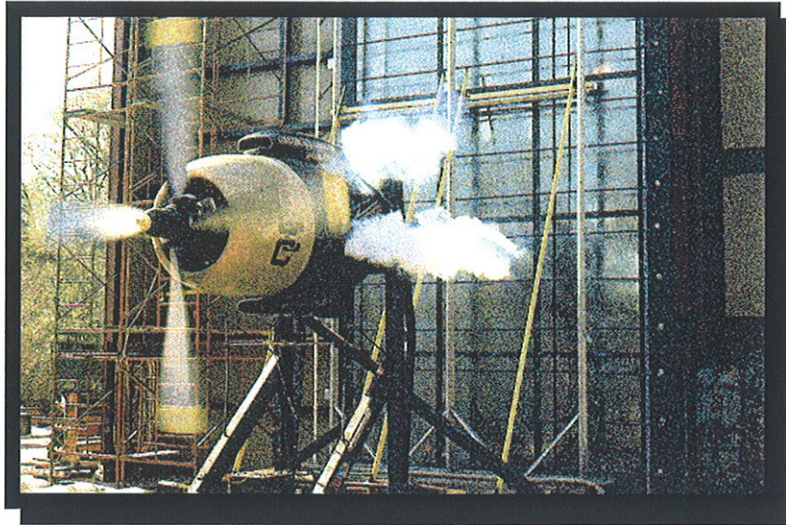




CONSTRUCTION CONSULTING LABORATORY, *INTERNATIONAL*



**TEST REPORT:
UNITED STATES ALUMINUM
SERIES 7200 FIXED WINDOW
REPORT CCLI #10-167**

August 31, 2010

Prepared for:

UNITED STATES ALUMINUM
200 Singleton Drive
Waxahachie, TX 75165

1601 Luna Road
Carrollton, Texas 75006

S-UNITED, INC.
A Quality Control Company

Office: (972) 242-0556
FAX: (972) 245-6047



AAMA/WDMA/CSA 101/I.S.2/A440-08
UNITED STATES ALUMINUM
SERIES 7200 FIXED WINDOW
REPORT CCLI #10-167

August 31, 2010

TABLE OF CONTENTS

1. PROJECT DATA	1
2. SUMMARY	1
3. TEST SPECIMEN	1
4. PERFORMANCE RESULTS	3
5. DISCLAIMER	3

APPENDIX:

APPENDIX A: UNITED STATES ALUMINUM SERIES 7200 FIXED WINDOW DRAWINGS

Refer to mock-up drawing in **Appendix A**. This report is not complete unless this drawing is stamped and initialed by **CCLI** as illustrated below.

Drawing	Part #	Date	Stamped as Illustrated
SERIES 7200 PO BILL OF MATERIALS AND ELEV.		1/5/10	 CONSTRUCTION CONSULTING LABORATORY, INTERNATIONAL 1601 Luna Road Carrollton, Texas 75006 Phone (972) 242-0556 Report# <u>10-167</u> , Date <u>8-31-10</u> Reviewed BY <u>GW</u>
FRAME HEAD AND SILL	61582	5/20/09	
FRAME JAMB	61583	5/20/09	
PO VENT	61581	5/20/09	
HINGE ADAPTER	61585	9/18/09	
CORNER ANGLE	61584	9/18/09	



AAMA/WDMA/CSA 101/I.S.2/A440-08
UNITED STATES ALUMINUM
SERIES 7200 FIXED WINDOW
REPORT CCLI #10-167

August 31, 2010
Page 1 of 3

1. PROJECT DATA

Project: Series 7200 Fixed Window
AAMA/WDMA/CSA 101/I.S.2/A440-08

Date of Testing: May 28, 2010

Tested For: United States Aluminum
200 Singleton Drive
Waxahachie, TX 75165

Witnessed By: (All or Partial Viewing)
Terry Hopgood International Aluminum

Juvenal Azua Construction Consulting Laboratory, *International*

2. SUMMARY

Series	Product Type	Test Size	Positive DP	Negative DP
7200	Aluminum Fixed Window	6'-0" x 6'-0"	4320 Pa (90.0 psf)	4320 Pa (90.0 psf)

3. TEST SPECIMEN

PRODUCT TYPE: Aluminum Fixed Window, **Product Drawings, Appendix A**

SERIES/MODEL: Series 7200 Fixed Window

SPECIFICATION: AAMA/WDMA/CSA 101/I.S.2/A440-08
CW-PG90-FW 1829 x 813 (72 x 72)

FRAME SIZE: 1829 x 1829 (6'-0"x 6'-0")

DAY LIGHT OPENING: 1746 x 1746 (5'-8¾" x 5'-8¾")

CONFIGURATION: O



AAMA/WDMA/CSA 101/I.S.2/A440-08
UNITED STATES ALUMINUM
SERIES 7200 FIXED WINDOW
REPORT CCLI #10-167

August 31, 2010
Page 2 of 3

WEATHER-STRIP: None.

GLASS: Sealed insulating glass. 2 pcs. 6.35mm ($\frac{1}{4}$ ") annealed glass, 12.7mm ($\frac{1}{2}$ ") air space with a 25.4mm (1") overall thickness. Air spacer consists of molded aluminum and desiccant.

GLAZING: Interior glazed with 4.76 mm ($\frac{3}{16}$ ") polyshim tape at exterior of glass with aluminum snap in glazing bead and drive in wedge gasket at interior of glass.

WEEP ARRANGEMENT: None.

SEALANT: Narrow joint seam sealer at all frame corners and seal over threads of all assembly screws in screw spline.

HARDWARE: None.

OTHER FEATURES: Frame members are thermally broken with polyurethane. Frame corners are coped, butted, and attached using two (2) #8 x 19.05mm ($\frac{3}{4}$ ") PHSMS.

INSTALLATION FEATURES: Test specimen was installed in a nominal 50.8mm x 203.2mm (2" x 8") yellow pine wood test buck attached with #12 x 63.5mm (2 $\frac{1}{2}$ ") screws spaced 76.2mm (3") from each end and 304.8mm (12") on center at interior of thermal break through frame head, sill and jambs.

4. PERFORMANCE RESULTS

Specification

<u>Paragraph No.</u>	<u>Title of Test</u>	<u>Test Method</u>	<u>Measured</u>	<u>Allowed</u>
5.3.2	Air Infiltration @ 300 Pa (6.24 psf)	ASTM E 283-04	.15 l/s·m ² (0.03 cfm/sf)	.5 l/s·m ² (0.10 cfm/sf)
5.3.3	Water Resistance @ 580 Pa (12.00 psf)	ASTM E 547 & 331-00	No Leakage	No Leakage
5.3.4.2	Uniform Deflection @ 4320 Pa (90 psf)	ASTM E 330-02		
	-Positive		.254mm (.01")	2.28mm (0.09")
	-Negative		.254mm (.01")	2.28mm (0.09")



AAMA/WDMA/CSA 101/I.S.2/A440-08
UNITED STATES ALUMINUM
SERIES 7200 FIXED WINDOW
REPORT CCLI #10-167

August 31, 2010
Page 3 of 3

<u>Specification Paragraph No.</u>	<u>Title of Test</u>	<u>Test Method</u>	<u>Measured</u>	<u>Allowed</u>
5.3.4.3	Uniform Structural	ASTM E 330-02		
	-Positive			
	-6480 Pa (135 psf)		No Damage	No Damage
	-Negative			
	-6480 Pa (135 psf)		No Damage	No Damage
	-Permanent Set		None	1.21mm (.048")
5.3.5	Forced Entry Resistance			
	ASTM F 588-07			
	Grade 40		No Entry	No Entry

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 **CCLI** for a period of four years.

5. DISCLAIMER

The above results were obtained by using the designated test methods indicating compliance with the above specification. This report does not constitute certification of this product, which may only be granted by the program administrator.

Respectfully submitted,

CONSTRUCTION CONSULTING LABORATORY, *INTERNATIONAL*


JUVE AZUA
TECHNICIAN


JEFFREY CRUMP
TESTING MANAGER



AAMA/WDMA/CSA 101/I.S.2/A440-08
UNITED STATES ALUMINUM
SERIES 7200 PROJECT OUT WINDOW
REPORT CCLI #10-167

August 31, 2010

APPENDIX



AAMA/WDMA/CSA 101/I.S.2/A440-08
UNITED STATES ALUMINUM
SERIES 7200 PROJECT OUT WINDOW
REPORT CCLI #10-167

August 31, 2010

APPENDIX A

PROJECT DRAWINGS

Drawing	Part #	Date
SERIES 7200 PO BILL OF MATERIALS AND ELEV.		1/5/10
FRAME HEAD AND SILL	61582	5/20/09
FRAME JAMB	61583	5/20/09
PO VENT	61581	5/20/09
HINGE ADAPTER	61585	9/18/09
CORNER ANGLE	61584	9/18/09

	A	B	C	D	E
1		7200 FX BOM			
2					
3	PART	DESCRIPTION	MATERIAL	SUPPLIER	
4	CT228	FRAME HZ	ALUM	INTEX	
5	CC208	GLAZING STOP	ALUM	INTEX	
6	CT203	FRAME VT	ALUM	INTEX	
7					
8	ST241	#10 AB X 3/4" PHL PH SMS ZP		VARIES	
9	SB362	SETTING BLOCK	EPDM	TREMCO	
10	ST193	#8 AB X 3/4" PHL PH SMS ZP		VARIES	
11	GT187	GLAZING TAPE	BUYTL	TREMCO	
12					
13		THERMAL FILL	POLYURETHANE		
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

 CONSTRUCTION
CONSULTING
LABORATORY
INTERNATIONAL
1601 Luna Road
Carrollton, Texas 75006
Phone (972) 242-0556
Report# 10-167, Date 5/30/10
Reviewed BY 



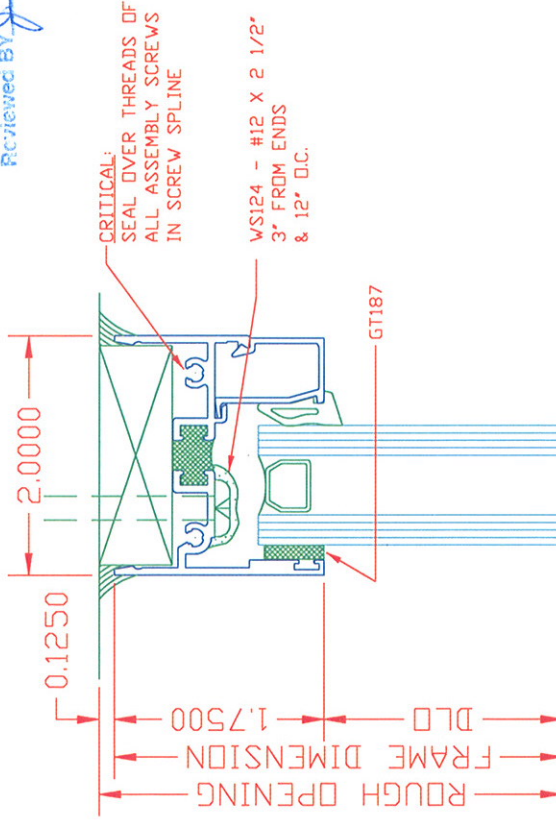
1601 Luna Road
Carrollton, Texas 75006

Phone (972) 242-0556

Fax (972) 242-0557

Report # 10-157, Date 11/11/09

Reviewed By [Signature]



1

SYM	REVISION	DATE	BY

THIS SPACE RESERVED FOR STRUCTURAL ENGINEER

THIS SPACE RESERVED FOR METRO-DATE USE ONLY

United States Aluminum

7200 Parker Road
Rock Hill, SC 29730
200 Singleton Drive
Vero Beach, FL 32985

DRAWN BY DCW	SYSTEM
DATE 11.16.09	SERIES 7200 FIXED WINDOW
APPROVED BY	DESCRIPTION DETAILS
SCALE FULL	DRAWING NO. MU2010-07
	SHEET 2 OF 4

SUBSIDIARY OF INTERNATIONAL ALUMINUM CORPORATION

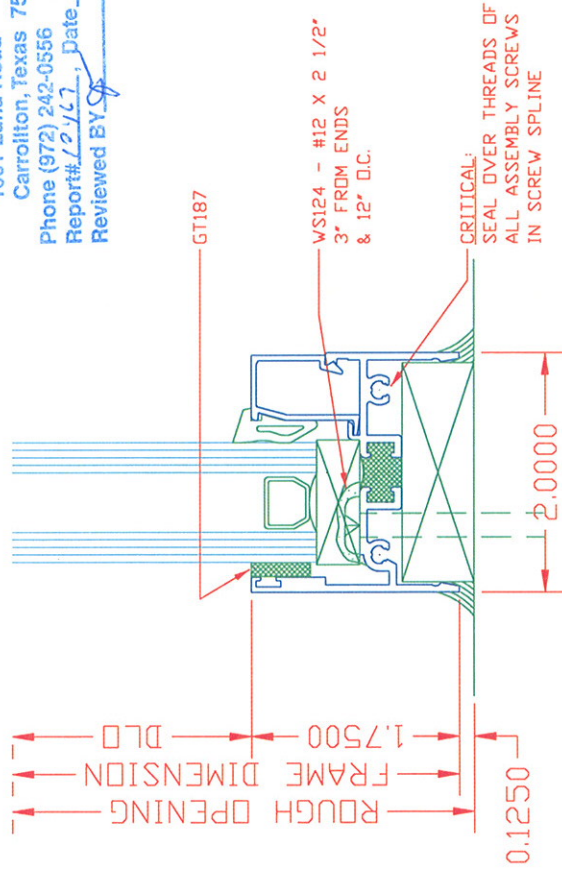


1601 Luna Road
Carrollton, Texas 75006

Phone (972) 242-0556

Report # 12-117, Date 8/2/11

Reviewed BY *[Signature]*



SYM	REVISION	DATE	BY

THIS SPACE RESERVED FOR STRUCTURAL ENGINEER

THIS SPACE RESERVED FOR METRO-DATE USE ONLY

United States Aluminum
720 Cedar River Road
P.O. Box 200
200 Singleton Drive
Voxahatche, TX 75165

DRAWN BY DCW	SYSTEM SERIES 7200
DATE 11.16.09	DESCRIPTION FIXED WINDOW
APPROV BY	DETAILS
SCALE FULL	DRAWING NO. MU2010-07
	SHEET 3 OF 4

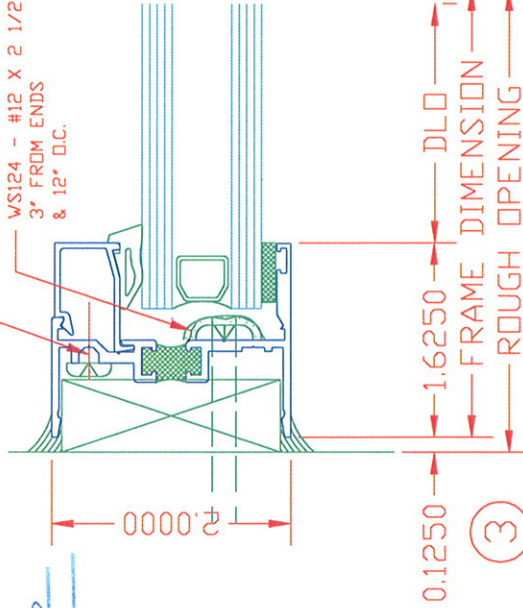


1601 Luna Road
Carrollton, Texas 75006

Phone (972) 242-0556

Reviewed By 12/18, Date 8/31/10

CRITICAL:
SEAL OVER THREADS OF
ALL ASSEMBLY SCREWS
IN SCREW SPLINE
WS124 - #12 X 2 1/2"
3" FROM ENDS
& 12" O.C.



3

SYM	REVISION	DATE	BY

THIS SPACE RESERVED FOR STRUCTURAL ENGINEER

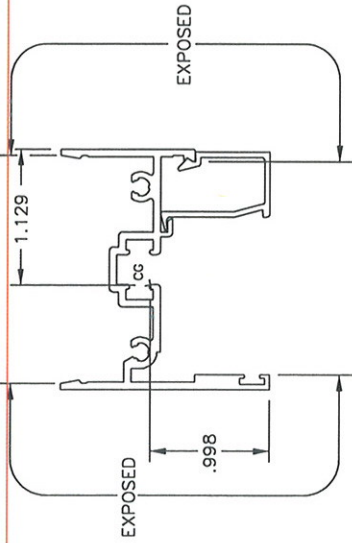
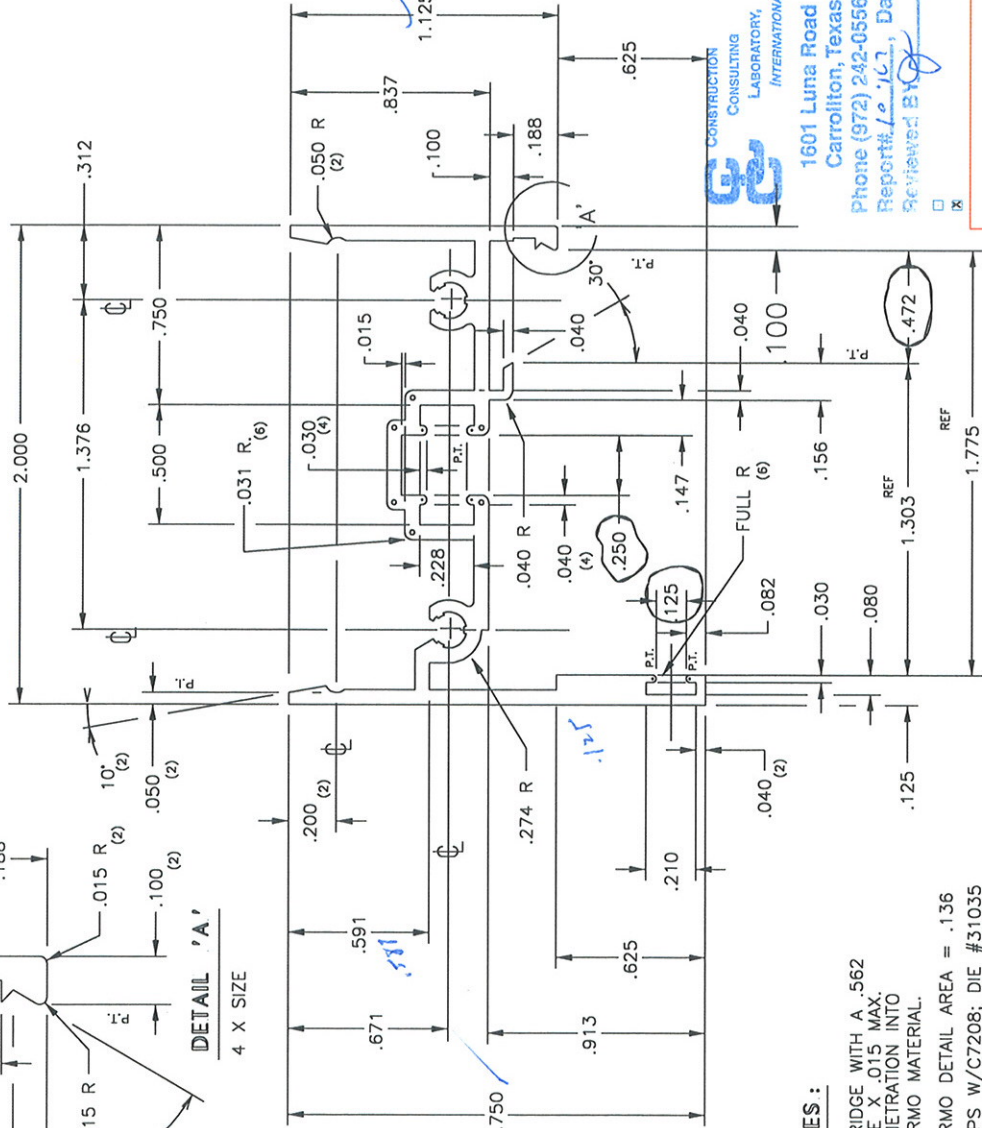
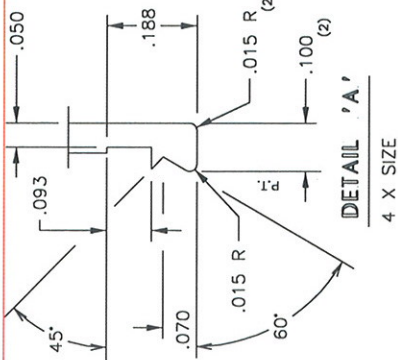
THIS SPACE RESERVED FOR METRO-DADE USE ONLY

United States Aluminum
2200 Central Expressway
2000 Spring Lake Drive
Vero Beach, FL 32980

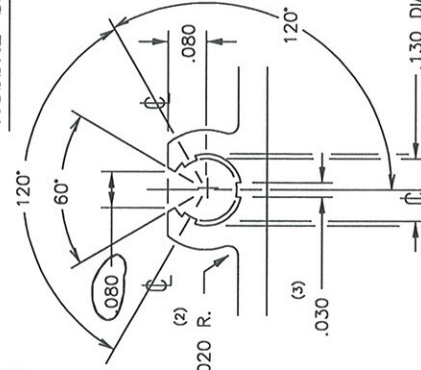
DRAWN BY DCW	SYSTEM SERIES 7200
DATE 11.16.09	DESCRIPTION FIXED WINDOW
APPROVED BY	DETAILS
SCALE FULL	DRAWING NO. MU2010-07
	SHEET 4 OF 4

SUBSIDIARY OF INTERNATIONAL ALUMINUM CORPORATION

PART # CC228 WAS C7228		RT 2/05	U. S. ALUMINUM CORP.		T-31050	A2
A1	ADDED FACTOR PART F, REVISED	GH 98	FIXED SILL		02/04/93	
A2	REVISED SEC. PROPERTIES	GLH 99	MAMO			
			CC228 (A1)		2 X SIZE	



ACTUAL SIZE



PROPERTIES:
 $I_{xx} = 0.244$
 $S_{xx} = 0.216$
 $I_{yy} = 0.054$
 $S_{yy} = 0.054$

NOTES:

1. DEBRIDGE WITH A .562 WIDE X .015 MAX. PENETRATION INTO THERMO MATERIAL.
2. THERMO DETAIL AREA = .136
3. SNAPS W/C7208; DIE #31035
4. PAINT PERIMETER: 3.200"
5. F&DB PART C7228

CONSTRUCTION
CONSULTING
LABORATORY,
INTERNATIONAL

1601 Luna Road
Carrollton, Texas 75006
Phone (972) 242-0556
Report# L.C. 17, Dates 3/91
Reviewed By

SCREW RACE DETAIL
SCALE: 4X SIZE (2 PLACES)

.442	P-21356	2 /WELDING	.062
.519	(2)	9x31050	
14.196	SOLID	B02-1	
27	7" = 46	T-31050	A2

