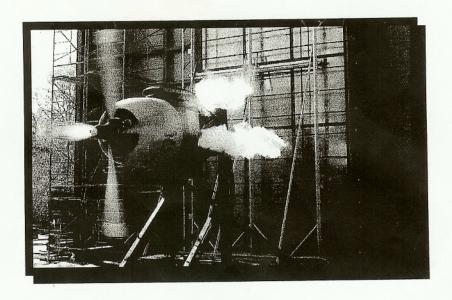


CONSTRUCTION CONSULTING LABORATORY, INTERNATIONAL



TEST REPORT:

ASTM E 330-97 PERFORMANCE TEST U.S. ALUMINUM JC-462/M-411 REPORT #CCLI-03-091

June 3, 2003

Prepared for:

UNITED STATES ALUMINUM CORPORATION

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



June 3, 2003

TABLE OF CONTENTS

1. PROJECT DATA	1
2. INTRODUCTION	2
3. SCOPE	2
4. SUMMARY	2
5. TEST SPECIMEN	2
6. PERFORMANCE RESULTS	3
7. CONCLUSION	4

APPENDIX

APPENDIX A: U.S. ALUMINUM JC-462/M-411 DRAWINGS

S-UNITED, INC.A Quality Control Company



June 3, 2003 Page 1 of 4

1. PROJECT DATA

Project: ASTM E 330-97 Performance Test

U.S. Aluminum JC-462/M-411

Date of Testing: May 19, 2003

Tested For: U.S. Aluminum

200 Singleton Drive Waxahachie, TX 75165

Witnessed By: (All or Partial Viewing)

Michael Brown
Terry Hopgood
U.S. Aluminum
U.S. Aluminum

Jeffrey Crump Construction Consulting Laboratory, *International*



June 3, 2003 Page 2 of 4

2. INTRODUCTION

This report presents the performance results of a U.S. Aluminum JC-462/M-411. Tests were conducted at the U.S. Aluminum testing facility in Waxahachie, TX.

3. SCOPE

Construction Consulting Laboratory, *International* (**CCLI**) was requested to witness and report the testing results of U.S. Aluminum JC-462/M-411. Tests were performed in accordance with ASTM E 330-97 "Standard Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference."

4. SUMMARY

The U.S. Aluminum JC-462/M-411 was tested in accordance with ASTM E 330-97 test specifications and achieved a Pressure of 45psf.

5. TEST SPECIMEN

Product Type:

Aluminum Storefront

Series Model:

JC-462/M-411

Publication No:

ASTM E 330-97

Frame Size:

9'-41/4" x 7'-31/8"

Configuration:

0.0

Refer to mock-up drawings in **Appendix A**. This report is not complete unless this laboratory symbol is stamped and initialed onto drawings.

Construction Consulting Laboratory, International 1601 Luna Road

Carrollton, Texas 75006

Phone (972) 242-0556

Report # 05-091 Reviewed By

Weather-Stripping: None

Hardware: None

<u>Glass:</u> 1" overall thickness sealed insulating glass: 2 pcs. $\frac{1}{4}$ " tempered glass with $\frac{1}{2}$ " air space.

CONSTRUCTION CONSULTING LABORATORY, INTERNATIONAL



June 3, 2003 Page 3 of 4

Glazing: Captured with glazing gasket (part #NP225) located at interior and exterior of glass of frame jambs. Frame head and sill is exterior glazed with glazing gasket (part #NP225) at interior of glass and glazing bead (part #IM453) with glazing gasket (part #NP225) at exterior of glass.

Weep Arrangement: None

Sealant: Dow 795 at frame perimeter.

Reinforcement: None

Installation Features: Test specimen was installed in a nominal (2" x 10") yellow pine wood test buck attached with #12 x 3" wood screws spaced 4" from each vertical mullion at sub-head and sub-sill, total of four (4).

Other Features: Frame horizontals (part #IS463) attached to each vertical with two (2) #10 x 1" HWH screws at each end (part #ST-251). Vertical mullions are snap fit continuous (part #I-452 and IS-200). Side blocks are located inside the frame vertical pocket approximately at center of day light opening.

Date testing started:

May 19, 2003

Date testing completed: May 19, 2003

Test performed at:

U.S. Aluminum testing facility in Waxahachie, TX

6. PERFORMANCE RESULTS

Title Of Test	Test Method	Measured	Allowed
Uniform Structural -Exterior -Interior -Permanent Set	ASTM E 330-97	45.00 PSF 45.00 PSF 0.0625"	45.00 PSF 45.00 PSF 0.164"

^{*}End reaction was 750-lbs (at each end of the intermediate vertical)

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.



June 3, 2003 Page 4 of 4

7. CONCLUSION

The test specimen, U.S Aluminum JC-462/M-411 meets the performance requirements of ASTM E 330-97 test standard. The above results were obtained by using the designated test methods and indicate 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

TESTING TECHNICIAN

LABORATORY MANAGER



June 3, 2003

APPENDIX



June 3, 2003

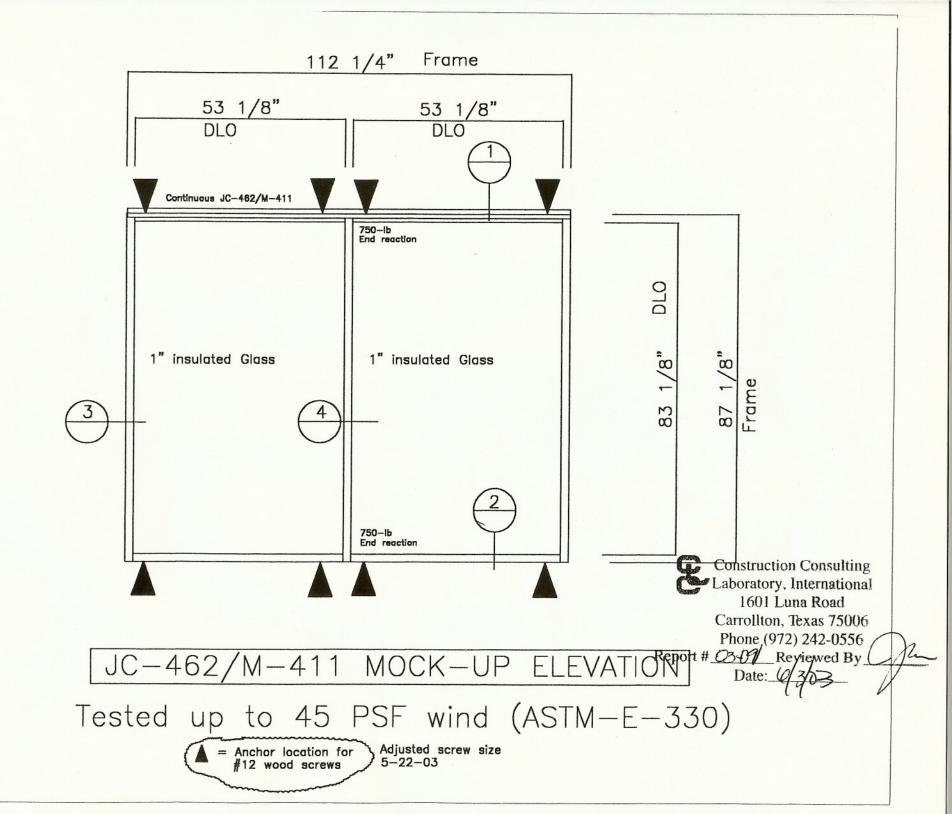
APPENDIX A

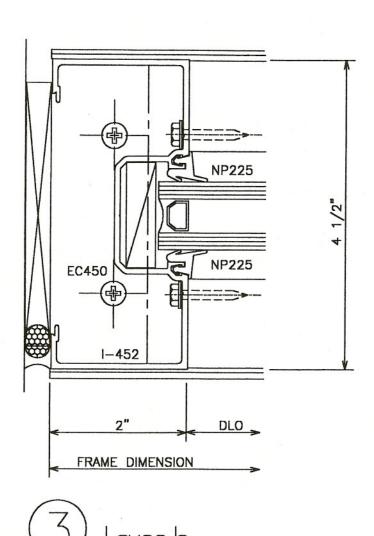
PROJECT DRAWINGS

 DRAWING
 DIE#

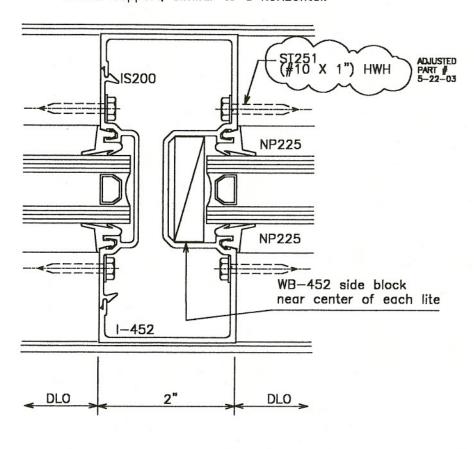
 JC-462/M-411 Mock Up Elevation
 5/20/03

 Jc-462/M411 Lay Out Drawing
 5/20/03





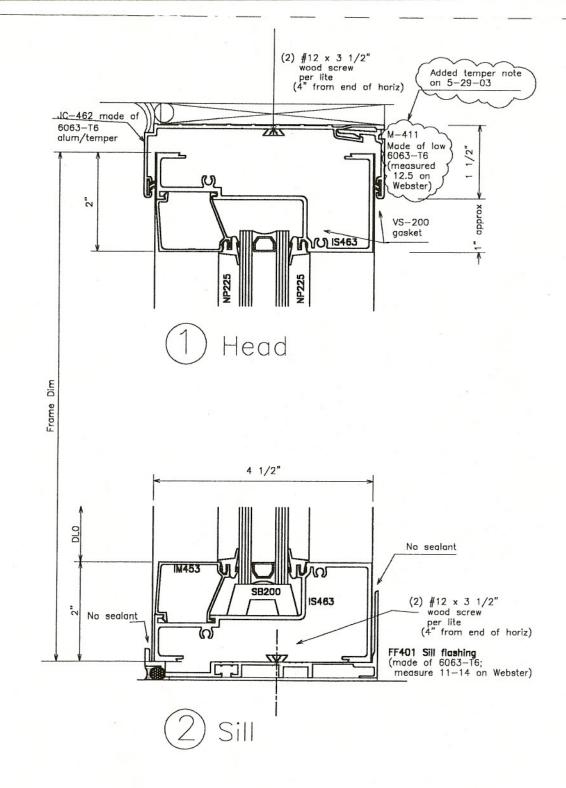
Note: Clamps applied to interm vert (© 3rd points) to prevent separation of filler from 1—452. This was not an anchor but provided lateral support, similar to a horizontal.



Int.Vert.

Construction Consulting Laboratory, International 1601 Luna Road Carrollton, Texas 75006

Phone (972) 242-0556
Report # Of Of Reviewed By



Construction Consulting Laboratory, International 1601 Luna Road Carrollton, Texas 75006 Phone (972) 242-0556 Report # <u>193-94</u> Reviewed By

