

Quality Accuracy Assurance

# Fenestration Testing Laboratory, Inc.

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November 30, 2000  
Laboratory No. 2872  
File Number 00-264  
Reissued: 1-5-2001  
Report Number 1  
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## TEST OF ALUMINUM FIXED WINDOW

Client: UCB Chemical, Inc.  
Project: Experimental  
Sample: Laboratory Number 2872  
Sampled by: Your representative and received November 8, 2000

Reported to: UCB Chemical, Inc.  
2000 Lake Park Drive  
Smyrna, Georgia 30080  
Attention: Mr. John Shaw

### Description of Test Unit: (as received)

Laboratory Number 2872  
Model Designation Series: CGC 4500; Aluminum Fixed Window  
Overall Frame Size 39 3/4" by 75 3/4" high  
Number of Fixed Lights One  
Size of Fixed Lights Clear opening, 34 3/4 by 70 3/4" high  
Muntins None  
Mullions None  
Glass Thickness 0.580" \*(0.555") overall laminated glass using two lites of 0.225" annealed glass with an 0.120" \*(0.110") inner layer film of Uvekol S.  
Glazing Method Units are interior glazed with 0.670" glazing penetration using an adhesive foam glazing tape and a black colored silicone, Dow Corning 995. Units have an extruded aluminum snap-on glazing bead on the interior with a vinyl wedge and a black colored silicone, Dow Corning 995, between the bead and glass.  
Installation: Frames installed with No. 14 by 3" flat head wood screws

### Result of Test:

11-15-00

CLIENT USE

#### Test

Measured

Remarks

Unit: A - 1: (Temperature: 67.0; Barometer 30.02)

Large Missile Impact Test:

Passed

Center of glass

49.5 ft/sec

Lower corner of glass

50.2 ft/sec

Cyclic Loading Test:

Passed

Positive Pressure

Range	Cycles	Duration
(Pmax=60.0 psf)		(seconds)
0.2 to 0.5	3500	1.0
0.0 to 0.6	300	1.0
0.5 to 0.8	600	1.2
0.3 to 1.0	100	1.5

Note: "\*" designates measurements by laboratory



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**Result of Test:**

11-15-00

CLIENT USE

**Test**

**Measured**

**Remarks**

**Unit: A - 1: (continued)**

Cyclic Wind Load Test:

Negative Pressure

Passed

Range	Cycles	Duration
(Pmax=60.0 psf)		(seconds)
0.3 to 1.0	50	1.6
0.5 to 0.8	1050	1.3
0.0 to 0.6	50	1.0
0.2 to 0.5	3350	1.0

**Unit: A - 2: (Temperature: 68.5; Barometer 30.02)**

Large Missile Impact Test:

Center of glass

50.1 ft/sec

Passed

Lower corner of glass

50.1 ft/sec

Cyclic Loading Test:

Passed

Positive Pressure

Range	Cycles	Duration
(Pmax=60.0 psf)		(seconds)
0.2 to 0.5	3500	1.1
0.0 to 0.6	300	1.2
0.5 to 0.8	600	1.5
0.3 to 1.0	100	1.9

Cyclic Wind Load Test:

Passed

Negative Pressure

Range	Cycles	Duration
(Pmax=60.0 psf)		(seconds)
0.3 to 1.0	50	2.1
0.5 to 0.8	1050	1.5
0.0 to 0.6	50	1.2
0.2 to 0.5	3350	1.0

**Unit: A - 3: (Temperature: 69.0; Barometer 30.02)**

Large Missile Impact Test:

Center of glass

50.4 ft/sec

Passed

Lower corner of glass

49.9 ft/sec

Cyclic Loading Test:

Passed

Positive Pressure

Range	Cycles	Duration
(Pmax=75.0 psf)		(seconds)
0.2 to 0.5	3500	1.1
0.0 to 0.6	300	1.0
0.5 to 0.8	600	1.5
0.3 to 1.0	100	1.9



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**Result of Test:**

11-15-00

**Test**

**Unit: A - 3: (continued)**

Cyclic Wind Load Test:

Negative Pressure

Range (Pmax=75.0 psf)	Cycles	Duration (seconds)
0.3 to 1.0	50	2.1
0.5 to 0.8	1050	1.1
0.0 to 0.6	50	1.9
0.2 to 0.5	3350	1.0

**Unit: A - 4: (Temperature: 70.1: Barometer 30.02)**

Large Missile Impact Test:

Center of glass

50.1 ft/sec

Lower corner of glass

50.0 ft/sec

Cyclic Loading Test:

Positive Pressure

Range (Pmax=75.0 psf)	Cycles	Duration (seconds)
0.2 to 0.5	3500	1.0
0.0 to 0.6	300	1.2
0.5 to 0.8	600	1.9
0.3 to 1.0	100	1.9

Cyclic Wind Load Test:

Negative Pressure

Range (Pmax=75.0 psf)	Cycles	Duration (seconds)
0.3 to 1.0	50	2.5
0.5 to 0.8	1050	1.0
0.0 to 0.6	50	1.3
0.2 to 0.5	3350	1.0

**Unit: A - 5: (Temperature: 72.0: Barometer 30.02)**

Large Missile Impact Test:

Center of glass

50.0 ft/sec

Lower corner of glass

49.7 ft/sec

Cyclic Loading Test:

Positive Pressure

Range (Pmax=90.0 psf)	Cycles	Duration (seconds)
0.2 to 0.5	3500	1.3
0.0 to 0.6	300	1.0
0.5 to 0.8	600	1.5
0.3 to 1.0	100	1.8

CLIENT USE

**Remarks**

Passed

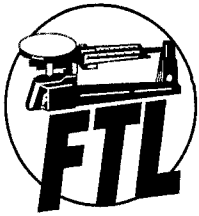
Passed

Passed

Passed

Passed

Passed



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**Result of Test:**

11-15-00

CLIENT USE

**Test**

**Measured**

**Remarks**

**Unit: A - 5: (continued)**

Cyclic Wind Load Test:

Passed

Negative Pressure

Range (Pmax=90.0 psf)	Cycles	Duration (seconds)
0.3 to 1.0	50	2.1
0.5 to 0.8	1050	1.2
0.0 to 0.6	50	1.9
0.2 to 0.5	3350	1.0

**Unit: A - 6: (Temperature: 72.8: Barometer 30.02)**

Large Missile Impact Test:

Passed

Center of glass

50.0 ft/sec

Lower corner of glass

49.8 ft/sec

Cyclic Loading Test:

Passed

Positive Pressure

Range (Pmax=90.0 psf)	Cycles	Duration (seconds)
0.2 to 0.5	3500	1.2
0.0 to 0.6	300	1.0
0.5 to 0.8	600	1.5
0.3 to 1.0	100	1.6

Cyclic Wind Load Test:

Failed

Negative Pressure

Range (Pmax=90.0 psf)	Cycles	Duration (seconds)
0.3 to 1.0	50	2.1
0.5 to 0.8	1050	1.6
0.0 to 0.6	50	1.9

At 34 cycles, the glass deglazed at left frame jamb.

**Remarks:** The above test results were obtained in accordance with instructions received from your representative.

Witnessed by:

**FENESTRATION TESTING LABORATORY, INC.**

Mr. Antonio Acevedo, P. E.

Mr. Micheal Burriss

Mr. Steve Schroer

**Manny Sanchez**

Mr. John Shaw

President

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