

**American Test Lab  
of South Florida**  
6795 NW 17 Ave.  
Fort Lauderdale, Fl. 33309  
(954) 973-0808 Fax (954) 973-0823  
www.atlsf.com e-mail: info@atlsf.com

ATL Report # 0226.01-98

Date: 2/27/98

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ATL Certification # 97-0623.02

Test Dates: 2/26/98

Test Requested By - Film Technologies International, Inc. 2544 Terminal Drive South, St. Petersburg, Florida 33712. Phone (813) 327-2544 Fax (813) 327-0062

Tests Conducted: Small Missile and Cycle Tests.

Design Pressures - + 50.0 psf, - 50.0 psf

**(1) DESCRIPTION OF UNIT:**

Overall Size - 46" wide x 76-1/2" high x 1-1/2" deep

Configuration - Extruded aluminum fixed window in a wood buck.

**Glazing:**

Glazing Material - 3/16" tempered glass with Glass Gard 400 (0.004" nominal)

Glazing Method - The fixed window was daylight mounted (retrofit) with Glass Gard 400. Interior glazing perimeter was silicone cap beaded with structural silicone sealant.

Daylight Opening - 44-1/2" wide x 74-1/4" high.

**(3) INSTALLATION:**

**Screws and Method of Attachment -**

# 10 x 1-1/2" flat head phillips wood screws, used to attach frame to the wood buck.

Sill: 10 (1) at 3" then (9) at an average of 4-1/2" oc from right jamb.

Header: 10 (1) at 3" then (9) at an average of 4-1/2" oc from right jamb.

Jambs: 28 (1) at 5" then (13) at an average of 5-7/16" oc from sill. (14) screws per jamb.

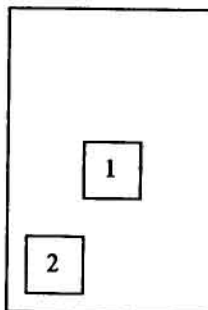
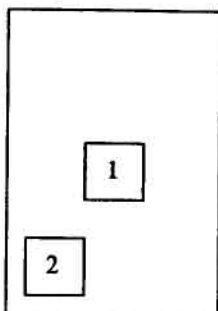
*Key Hatter*  
03-04-98

**IMPACT TEST - SMALL MISSILE**

Impact tests were conducted in accordance with South Florida Building Code,  
Dade County & Broward County Edition

**Specimen C**

**Specimen D**



SPEED FT/SEC

1). 81.4    2). 79.0

SPEED FT/SEC

1). 79.0    2). 80.0

**Type and weight of missile:** (10) 5/16" ss ball bearings, 2 grams each.

**Description of specimens after impact test:**

**Specimen C:** The first impact was made in the center of the window. There was no penetration of the film or separation of glass from the aluminum frame. The second impact was made in the bottom left corner of the window. There was no penetration of the film or separation of glass from the aluminum frame.

**Specimen D:** The first impact was made in the center of the window. There was no penetration of the film or separation of glass from the aluminum frame. The second impact was made in the bottom left corner of the window. There was no penetration of the film or separation of glass from the aluminum frame.

**CYCLE TEST**

Cycle tests were conducted in accordance with South Florida Building Code,  
Dade County & Broward County Edition

**Design Load psf = + 50.0 , - 50.0**

**Specimens C, D**

Range of test	actual load psf		# of cycles	cycles/min	
	C	D		C	D
<b>Positive loads</b>					
+ .2 - .5	10	25	3500	57	57
+ .0 - .6	0	30	300	43	43
+ .5 - .8	25	40	600	55	55
+ .3 - 1.0	15	50	100	60	60
<b>Negative Loads</b>					
- .3 - 1.0	15	50	50	50	50
- .5 - .8	25	40	1050	58	58
- .0 - .6	0	30	50	50	50
- .2 - .5	10	25	3350	59	59

9000 cycles completed

*Nery Hatte*  
03-04-98

**Description of specimens after cycle test:**

**C, D.** Specimens showed no resultant failure or duress after cycle test. No failure of film or separation of film from the aluminum frame.

**Note:**

**Specimen C:** After 9000 cycles were completed, at the client's request, 100 cycles were successfully completed at 60.0 psf on the negative side.

**Specimen D:** After 9000 cycles were completed, at the client's request, 800 cycles were successfully completed on the negative side.

Negative loads	actual load psf	# of cycles	cycles/min
Specimen C:	60	100	50
Specimen D:	60	100	50
	70	100	50
	80	100	50
	90	100	50
	100	100	50
	110	100	50
	120	100	50
	130	100	50

Observers - 2/26/98

Henry Hattem - PE

Jim Mazzeo - Film Technologies, Inc

Tony Sivore, Jeremy Sivore, Randy Tinnerman - ATLSF

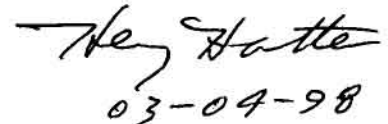


Tony Sivore, Director  
American Test Lab of South Florida

All Tests Certified and Witnessed by:

Henry Hattem  
6795 N. W. 17 Avenue  
Fort Lauderdale, FL 33309  
State of Florida:  
Registered Engineer P.E. #0014373

Engineer Seal & Signature



**Disclaimer:** This test report was prepared by American Test Lab of South Florida (ATLSF), for the exclusive use of the above named client, it does not constitute certification of this product. The results are for that particular specimen tested and does not imply the quality of similar or identical products manufactured or installed from specifications identical to the tested product. ATLSF is a testing lab and assumes that all information provided by the client is accurate and does not guarantee or warranty any product tested or installed.