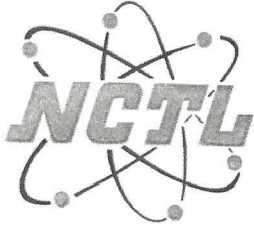


**VITWALL DIY Drywall Alternative**  
**STRUCTURAL PERFORMANCE TEST**  
NCTL-210-3068-1

**Missile C**  
**Wind Zones 1 & 2**

**NATIONAL CERTIFIED TESTING LABORATORIES**



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1464 GEMINI BOULEVARD • ORLANDO, FLORIDA 32837  
PHONE (407) 240-1356 • FAX (407) 240-8882

### **ASTM E1996 COMPLIANCE STATEMENT**

On October 8, 2004, VITEWALL DIY Drywall Alternative completed impact testing at National Certified Testing Laboratories in Orlando, FL. All tests were performed in full accordance with ASTM E1886 and ASTM E 1996 with no deviations.

Manufacturer: VITEWALL DIY Drywall Alternative  
Product Series: 1/2" White Polypropylene Panel  
Product Configuration Tested: Fixed Panel  
Tested Size: 48" x 96" overall  
Glazing Configuration: N/A

Level of Protection: Basic Protection  
Wind Zone: Wind Zone 2 - 120 mph <basic wind speed < 130 mph  
at greater than one mile from the coastline measured  
from the mean high water mark.  
Assembly Height Above Ground: Less than or equal to 30 feet

Impact Missile Used: Missile C  
Positive Design Pressure: N/A  
Negative Design Pressure:

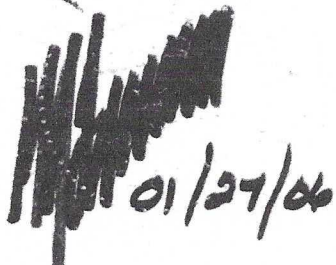
See NCTL Report 210-3068-1 for complete specimen description and test results

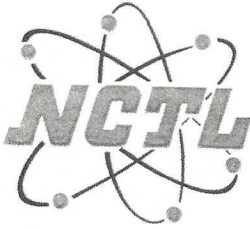
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Rick Moffett  
Technician

  
Chris Bennett  
Division Manager

PROFESSIONALS IN THE SCIENCE OF TESTING

  
01/27/06



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### **IMPACT PERFORMANCE TEST REPORT**

Report No: NCTL-210-3068-1

Test Date: 10/08/04

Report Date: 12/02/04

Revision Date: 04/07/05

**Client:** VITEWALL DIY Drywall Alternative  
P.O. Box 547565  
Orlando, FL 32854

**Test Specimen:** VITEWALL's DIY Drywall Alternative 1/2" Plastic Panel (48 x 96")

**Test Standards:** ASTM E1996-03 "Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Windborne Debris in Hurricanes." (Impact Only)

### **TEST SPECIMEN DESCRIPTION**

**General:** The test specimen was a 48 x 96" corrugated plastic sheet. The 1/2" thick corrugated plastic is made of twin wall (12 mil) high-impact polypropylene copolymer resin.

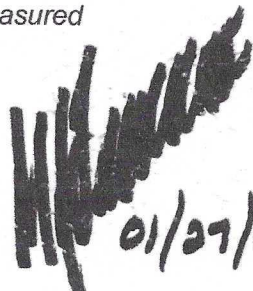
**Installation:** The test specimen was fastened to the test buck with eighteen (18) white low profile 2 inch composite screws. There were three (3) across the top and bottom, four (4) across the left and right sides and four (4) top to bottom on the two interior studs. Spacing was twenty-four (24) inches apart. (see fastener diagram for installation details).

**Interior & Exterior Surface Finish:** White

### **TEST PARAMETERS**

The appropriate missile to be used for impact tests was selected in accordance with section 6 of ASTM E1996 based on the following criteria:

Level of Protection:	Basic Protection
Wind Zone:	Wind Zone 2 - 120 mph <basic wind speed < 130 mph at greater than one mile from the coastline measured from the mean high water mark.
Assembly Height Above Ground:	Less than or equal to 30 feet

  
01/27/06

**IMPACT TEST RESULTS**

Large missile impact tests were conducted using a #2 Southern Yellow Pine 2 x 4 measuring 48" in length and weighing 4.50 lbs (Missile C) as shown in Table 2 of ASTM E 1996. Missile speeds and locations were in accordance with section 5.3 and Table 2 ASTM E1996. For pass/fail criteria, no penetration is defined as no tear longer than 5 inches in length and 1/16" wide or no opening through which a 3" diameter solid sphere can freely pass per section 7 of ASTM E 1996. All specimens were conditioned at 70 F +/- 15 F prior to testing. Missile orientation at impact complies with section 11.2.2 of ASTM E1886.

*Specimen A Panel*

<u>Impact No.</u>	<u>Impact Location</u>	<u>Missile Speed</u>	<u>Results</u>
1	Center of Panel	50 feet/sec 34 mph	No Penetration
2	Top Right Corner of Panel	50 feet/sec 34 mph	No Penetration

*Specimen B Panel*

<u>Impact No.</u>	<u>Impact Location</u>	<u>Missile Speed</u>	<u>Results</u>
1	Bottom Left Corner of Panel	50 feet/sec 34 mph	No Penetration
2	Center of Panel	50 feet/sec 34 mph	No Penetration

*Specimen C Panel*

<u>Impact No.</u>	<u>Impact Location</u>	<u>Missile Speed</u>	<u>Results</u>
1	Top Right Corner of Panel	50 feet/sec 34 mph	No Penetration
2	Center of Panel	50 feet/sec 34 mph	No Penetration

**TESTS COMPLETED**      **10/08/04**

**Testing Observed by:** Daniel Ocasio (NCTL)  
Brian Guertin (NCTL)  
John D. Smith (VITEWALL)

The listed results were secured by using the ASTM E1886 test method and indicate compliance with the performance requirements of ASTM E1996 for the listed test parameters. (Impact only)

*[Handwritten Signature]*  
01/27/06



*Detailed drawings were available for laboratory records and compared to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by NCTL for a period of four (4) years. The results obtained apply only to the specimen tested and do not imply the quality of similar products manufactured or installed identical to the tested product. This report does not constitute certification or approval of the product, which may only be granted by a certification program validator or recognized approval entity. All tests were conducted in compliance with the referenced ASTM specifications. This report may not be reproduced, except in full, without the written consent of NCTL.*

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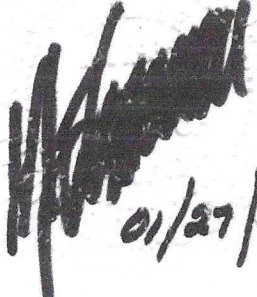
  
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Technician

  
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Division Manager

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CB/mjt

  
01/27/04