

# TEST REPORT

**Intertek**

REPORT NUMBER: 3175083COQ-001  
ORIGINAL ISSUE DATE: March 9, 2009

## EVALUATION CENTER

INTERTEK TESTING SERVICES NA LTD.  
1500 BRIGANTINE DRIVE  
COQUITLAM, BC V3K 7C1

## RENDERED TO

EAST & WEST ALUM CRAFT LTD.  
7465 CONWAY AVENUE  
BURNABY, BC  
V5E 2P7

PRODUCT EVALUATED: 8 ft. Snap Panel (VS-56791C)  
EVALUATION PROPERTY: Ultimate Load Testing

**Report of 8 ft. Snap Panel (VS-56791C) tested in accordance with  
the client's test protocol**

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## **2 Introduction**

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Intertek Testing Services NA Ltd. (Intertek) has conducted an ultimate load test for East & West Alum Craft Ltd. on an aluminum snap panel. The testing was carried out in accordance with the client's test protocol and was completed during the month of March 2009.

## **3 Test Samples**

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### **3.1. SAMPLE SELECTION**

The client submitted one (1) aluminum snap panel to the Evaluation Center on March 3, 2009. Samples were not independently selected for testing and cannot be used for Intertek Certification.

### **3.2. SAMPLE AND ASSEMBLY DESCRIPTION**

The product was identified as the VS-56791C, an aluminum column assembled from four (4) aluminum snap panels. The VS-56791C measures 8-1/8 in. x 8-1/8 in. x 8 ft. long.

## **4 Testing and Evaluation Methods**

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### **4.1. CONDITIONING**

The product was maintained in standard laboratory conditions for a minimum of 24 hours at a temperature of  $23 \pm 3^{\circ}\text{C}$  ( $73 \pm 4^{\circ}\text{F}$ ) and relative humidity of  $50 \pm 20\%$  prior to testing.

### **4.2. ULTIMATE LOAD TEST**

The ultimate load test was conducted in accordance with the client's test protocol. The sample was placed into a universal reaction frame and loaded in compression using a hydraulic ram. Loads were measured using a calibrated pressure gauge. The load on the assembly was steadily increased in 500 psi increments until structural failure occurred. Upon completion of the loading, the test sample was inspected for any sign of damage or deleterious effects.

## 5 Testing and Evaluation Results

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### 5.1. RESULTS AND OBSERVATIONS

The product test results are shown in Table 1 below. A full set of test data is included in Appendix A.

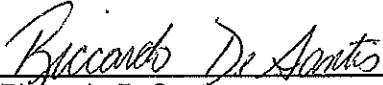
Table 1. East & West Alum Craft Ltd. Test Results		
Description	Test Result	Mode of Failure
Ultimate Load Test	56,150 lbs	Buckling and twisting of column; snap panel came apart upon failure


## 6 Conclusion


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The East & West Alum Craft Ltd. snap panel product identified and evaluated in this report has been tested in accordance with the client's test protocol. The product has shown properties as presented in Section 5 of this report.

### INTERTEK TESTING SERVICES NA LTD.

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## APPENDIX A: Test Data (1 page)



Test: **Ultimate Load Test** Project #: 3175083  
Date: 9-Mar-09 Technician: Riccardo DeSantis  
Client: East & West Alum Craft Ltd. Andrew Chase  
Product: 8 ft. Snap Panel (VS-56791C)  
Sample Size: Height: 8 ft.  
Width 8-1/8 in. square  
Method: As per the client's test protocol  
Equipment: ENFM 10000 psi pressure gauge (Intertek ID# P60100, cal due February 9, 2010)

Load		Pass	Fail
psi	lbs*		
500	3115	Pass	
1000	8639	Pass	
1500	14164	Pass	
2000	19688	Pass	
2500	25213	Pass	
3000	30737	Pass	
3500	36262	Pass	
4000	41786	Pass	
4500	47311	Pass	
5000	52835	Pass	
5500	58360		Fail

Ultimate Failure

56,150 lbs

Observations:

Column failed approaching 5500 psi. Passed 5300 psi (56,150 lbs)  
Failure mode was buckling and twisting of column; snap panel came apart.

\* Note:

Load (lbs) was calculated from formula determined from pressure gauge calibration.

## **APPENDIX B: Photos (1 page)**

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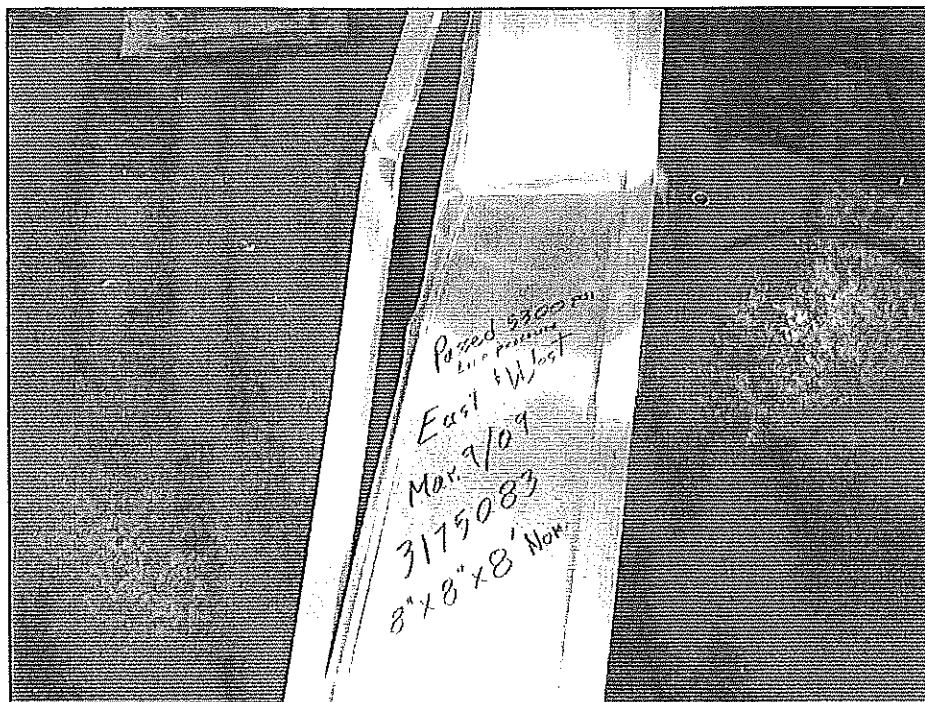


Figure 1. Tested Snap Panel (56,150 lbs Ultimate Load)

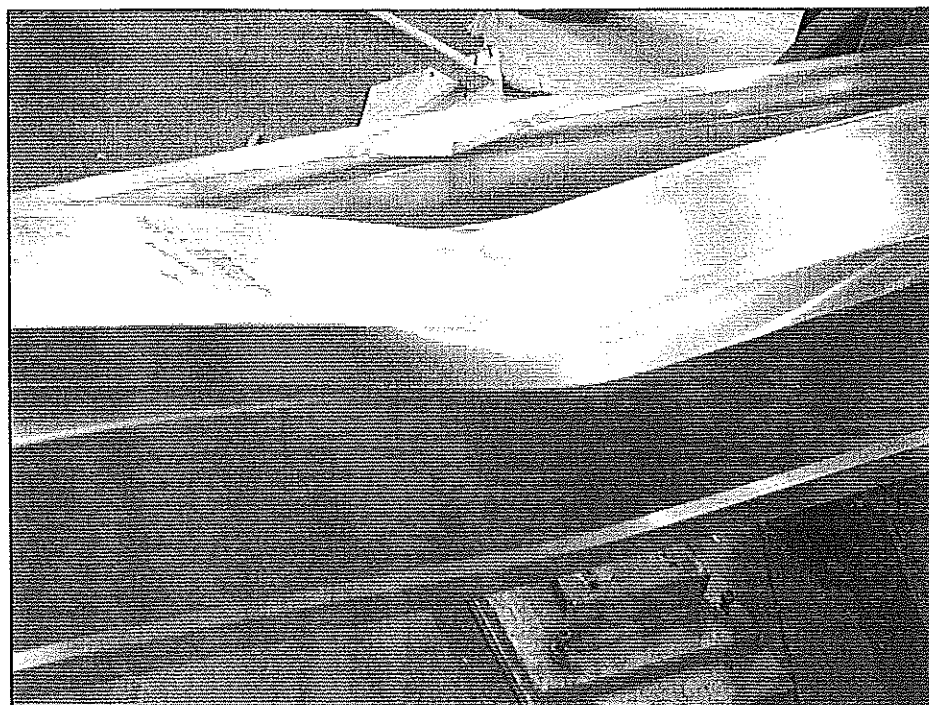


Figure 2. Tested Snap Panel (56,150 lbs Ultimate Load)