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**EVALUATION  
 REPORT**

**KA Job No.:** 08-353      **Date:** September 10, 2008

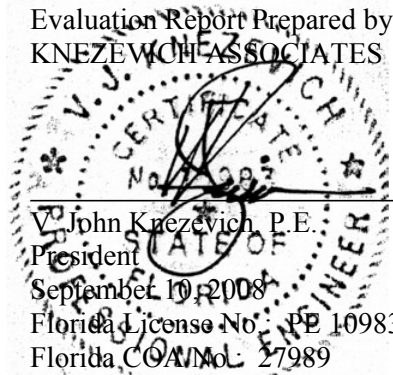
**FBC Evaluation Report No.:** FL11398  
**Code:** Florida Building Code, 2007  
**Product Category:** Shutters  
**Product Sub-Category:** Storm Panel  
**Product Name:** 0.040", 0.050" and 0.060"  
 Aluminum Storm Panels  
**Manufacturer:** Town and Country Industries  
 A Division of ABC Supply,  
 Inc.  
 400 West McNab Road  
 Fort Lauderdale, FL 33309

**1. PURPOSE OF EVALUATION REPORT:**

This is an Evaluation Report issued by Knezevich Associates (System ID No. 1801), V. John Knezevich, P.E. to Town and Country Industries, based on Rule Chapter No. 9B-72.070, Method 1(d) Product Approval, Florida Building Commission, and Department of Community Affairs. This Colonial Shutter has been evaluated and found to be in compliance with the Code and that the product is, for the purpose intended, at least equivalent to that required by the Code.

Re-evaluation of this Evaluation Report is required, following any code changes, to maintain its validity.

Evaluation Report Prepared by:  
 KNEZEVICH ASSOCIATES



V. John Knezevich, P.E.  
 President  
 September 10, 2008  
 Florida License No. PE 10983  
 Florida Commission No. 27989

This seal was authorized by V J Knezevich, PE 10983. This does not constitute an electronic signature; original, signed & sealed hard copies to the appropriate agency will follow.



## **2. SUBSTANTIATING DATA**

### **2.1 PRODUCT EVALUATION DOCUMENT**

TOWN & COUNTRY INDUSTRIES 0.040", 0.050" and 0.060" Aluminum Storm Panels, Drawing No. 08-353, dated June 10, 2008; Sheets 1 through 6, prepared by Knezevich Associates (KA), signed, dated and sealed by V. John Knezevich, P.E. is an integral part of this Evaluation Report.

### **2.2 TEST REPORTS**

Test report for Large Missile Impact in accordance with SSTD 12-99 and Uniform Static Air Pressure in accordance with ASTM E330-02. Test reports 97-063, 98-009, 98-010, 98-011, 98-014, 99-044, 00-041, 00-022, 01-037 and 02-012 were prepared by Construction Testing Corporation (C.T.C.)

Aluminum alloy was verified by use of a Webster Gauge, Model B.

### **2.3 STRUCTURAL ENGINEERING CALCULATIONS**

KA prepared anchor calculations based on the maximum shutter span and maximum allowable design pressure as indicated in the Storm Panel Maximum Span Schedules on page 6 of 6 of the reference drawing.

No increase in allowable stress has been used in the design of this product.

## **3. IMPACT RESISTANCE**

These storm panel systems were tested in accordance SSTD 12-99 for impact resistance and passed.

These storm panel system may be used to protect glazed openings from windborne debris, when installed in accordance with the limitations indicated in the reference drawing.

## **4. WIND LOAD RESISTANCE**

These storm panel systems were tested in accordance with ASTM E 330-02 for Uniform Static Air Pressure.

These storm panel systems may be used to resist wind pressures based on the maximum shutter span and the maximum allowable design pressure as indicated in the Storm Panel Maximum Span Schedules on page 6 of 6 of the reference drawing and when installed in accordance with the limitations indicated in the referenced drawings.



## **ANCHORS**

The minimum anchor spacing, minimum edge distance & minimum embedment for each type of anchor are defined in the Anchor Schedules on Sheets 4, 5, and 6 of the reference drawing.

## **6. INSTALLATION**

These storm panel systems are to be installed in accordance with the typical details, general notes, schedules and material specifications found in the referenced drawing.

## **7. MATERIAL SPECIFICATIONS**

See General Notes of the reference drawing, unless otherwise noted, for material specifications. All dimensions of components are indicated in the reference drawings. Anchor specifications including acceptable substrate, minimum embedment, edge distance and manufacturer are indicated in the referenced drawing.

## **8. LIMITATIONS AND CONDITIONS OF USE**

This product is NOT suitable for installation in the High Velocity Hurricane Zone (HVHZ).

This product may only be installed on concrete, hollow concrete block or wood substrates. For all other conditions site specific design shall be performed by KA or our delegated engineer.

These storm panel systems have been designed as Non-Porous in accordance with SSTD 12-99.