KA Job No.: 08-357 Date: January 4, 2009

FBC Evaluation Report No.: FL11973
Product Category: Shutters
Product Sub-Category: Accordion
Product Name: HR Accordion Shutter System
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 (KA), V. John Knezevich, P.E. (FBC Organization No. ANE 1801) to Town and Country Industries, A Division of ABC Supply, Inc., based on Rule Chapter No. 9B-72.070, Method 1(d) Product Approval, Florida Building Commission, and Department of Community Affairs. This HR Accordion Shutter System 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.
2. SUBSTANTIATING DATA

2.1 PRODUCT EVALUATION DOCUMENT
TOWN & COUNTRY INDUSTRIES HR Accordion Shutter System, Drawing No. 08-357, dated January 4, 2009; Sheets 1 through 8, prepared by 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 Uniform Static Air Pressure in accordance with TAS 202 and ASTM E330-02 and successful testing of impact resistance and cyclic pressure loading in conformance with TAS 201 and TAS 203. Test reports were prepared by Hurricane Test Laboratory, LLC (HTL), Test Report No.0353-0904-05 and Construction Testing Corporation (CTC), Test Report No. 98-026.

Tensile Capacity of aluminum alloy extrusions was determined using a Webster Gauge, Model B.

2.3 STRUCTURAL ENGINEERING CALCULATIONS
Prepared Rational and Comparative Analyses of HR Accordion Shutter System performance, as well as anchor calculations. From these analyses, a Maximum Shutter Span vs. Design Load (PSF) schedule was prepared for the HR Accordion Shutter System. An Anchor Spacing vs. Design Load (PSF) schedule was also prepared, indicating maximum anchor spacing, for a given span condition, at specific design loads (PSF), for each type of anchor used during testing.

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

3. IMPACT RESISTANCE
This HR Accordion Shutter System satisfactorily passed the large missile impact testing, in accordance with TAS 201. This HR Accordion Shutter System may be used to protect glazed openings from windborne debris, in the High Velocity Hurricane Zone, when installed in accordance with the approved installation drawings, including the limitations indicated therein, prepared by KA.

4. WIND LOAD RESISTANCE
This HR Accordion Shutter System has been designed and tested to resist wind pressures as indicated by the Span Schedule in the referenced drawing.
5. ANCHORS & INSTALLATION

The maximum anchor spacing for each type of Anchor, Shutter Span and Design Wind Load is found in the Anchor Schedule of the referenced drawing. This HR Accordion Shutter System is to be installed in accordance with the typical details, general notes, schedules and material specifications found in the referenced drawing.

6. 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.

7. LIMITATIONS AND CONDITIONS OF USE

This product is 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.

This product must be installed in accordance with the Minimum Shutter Separation From Glass Tables of the referenced drawing.