



MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov

Lookout Shutters, Inc.
1268 Mauldin Road
Calhoun, GA 30701

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Clear – HT 100 Accordion Shutter Blade Component

APPROVAL DOCUMENT: Drawing No. 08-041, titled “Clear – HT 100 Accordion Shutter Blade Component”, sheet 1 of 1, prepared by EngCo, Inc., dated February 14, 2008, signed and sealed by Pedro De Figueiredo, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises & renews NOA #02-1216.12** and consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
 03/27/2008

NOA No. 08-0225.07
Expiration Date: 02/27/2013
Approval Date: 03/27/2008
Page 1

Lookout Shutters, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #02-1216.12

A. DRAWINGS

1. *Drawing No. 02-561, titled "Clear – HT 100 Accordion Shutter", sheet 1 of 1, prepared by Knezevich & Associates, Inc., dated November 26, 2002, last revision #1 dated January 28, 2003, signed and sealed by V.J. Knezevich, P.E.*

B. TESTS

1. *Test report on Uniform Static Air Pressure Test, Large Missile Impact Test, and Cyclic Wind Pressure Test of accordion shutter, prepared by Construction Testing Corporation, Report No. 02-039, dated October 31, 2002, signed and sealed by Yamil Kuri, P.E.*

C. CALCULATIONS

1. *Comparative analysis and anchor calculations, see Association's generic approval under 02-0799.*

D. MATERIAL CERTIFICATIONS

1. *Report No. 9592A of Lexan Corrugated Sheet and N.O.A. 00-0718.02.*

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 08-041, titled "Clear – HT 100 Accordion Shutter Blade Component", sheet 1 of 1, prepared by EngCo, Inc., dated February 14, 2008, signed and sealed by Pedro De Figueiredo, P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *Calculations titled "Product Component Evaluation", 1 page, prepared by EngCo, Inc., dated February 14, 2008, signed and sealed by Pedro De Figueiredo, P.E.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *GE Polycarbonate UV rated XL-10 sheet per current Notice of Acceptance.*



Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 08-0225.07
Expiration Date: 02/27/2013
Approval Date: 03/27/2008

GENERAL NOTES:

1- DEFINITION: THIS PRODUCT IS AN ACCORDION TYPE SHUTTER COMPONENT; DESIGNED TO WORK IN CONJUNCTION WITH THE HT-100 ACCORDION SHUTTER, CONSTRUCTED AND TESTED TO PROVIDE PROTECTION FROM HURRICANE FORCE WINDS AND WIND BORNE DEBRIS (LARGE MISSILE) WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL.

2- CODE: THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN ACCORDANCE WITH THE 2007 FLORIDA BUILDING CODE, UNDER TAS 201, 202 AND 203.

3- POSTING: AT LEAST ONE PERMANENT LEGIBLE DECAL SHALL BE PLACED AT A READILY VISIBLE LOCATION STATING THE FOLLOWING:

"LOOKOUT SHUTTERS, INC - CALHOUN, GEORGIA
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED"

4- LOADS: THE DESIGNED LOAD (BASED ON ASCE 7) MUST BE CALCULATED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE CALCULATED DESIGNED PRESSURE MUST NOT EXCEED THE ALLOWABLE PRESSURES FOR THIS SHUTTER COMPONENT.

MAXIMUM SHUTTER SPAN - 96 INCHES

MAXIMUM DESIGN RATING - +66.4, -72.0 PSF

TO BE USED ONLY IN CONJUNCTION WITH THE HT-100 ACCORDION SHUTTER

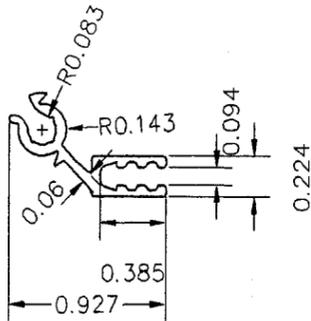
5- MATERIAL: ALL EXTRUDED ALUMINUM SHAPES SHALL BE MADE OF 6063-T6 OR AS NOTED.

6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THE CURRENT SET OF DRAWINGS. INSTALLATION AND LOADS AS PER THIS APPROVAL.

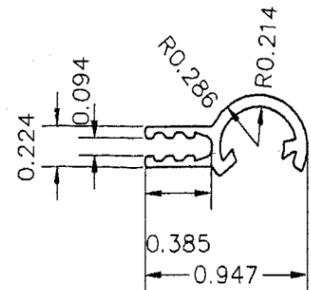
7- USE: THESE APPROVAL DOCUMENTS ARE GENERIC AND DO NOT INCLUDE INFORMATION FOR SITE SPECIFIC APPLICATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:

- 7.1- THE STABILITY OF THE STRUCTURE WHERE THE SHUTTER IS TO BE ATTACHED INSURING PROPER ANCHORAGE.
- 7.2- THE SITE SPECIFIC PROJECT CRITERIA SUCH AS BUT NOT LIMITED TO WIND LOADS, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.
- 7.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.

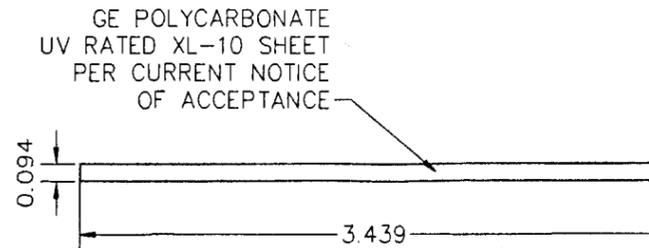
8- WIND LOAD CALCULATION MUST BE IN COMPLIANCE WITH THE CURRENT ASCE 7 STANDARD. A DIRECTIONALITY FACTOR $K_d = .85$ SHALL BE USED.



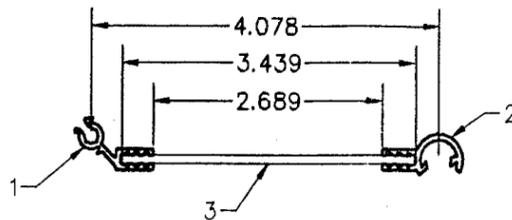
1- MALE PORTION OF CLEAR BLADE ASSEMBLY
USE WITH PIECES 2 AND 3



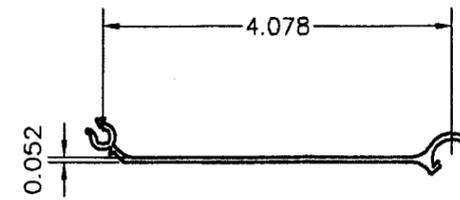
2- FEMALE PORTION OF CLEAR BLADE ASSEMBLY
USE WITH PIECES 1 AND 3



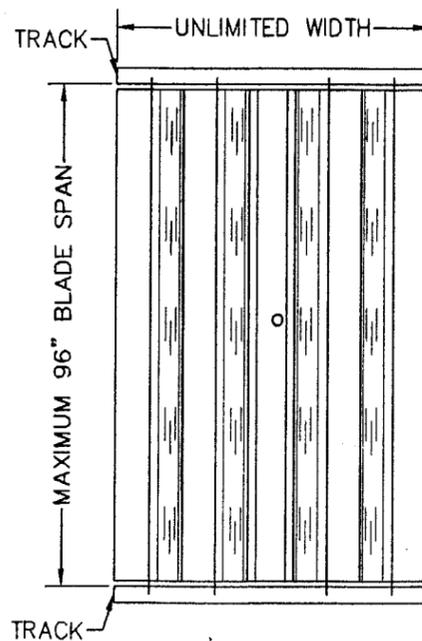
3- CLEAR POLYCARBONATE SHEET
USE WITH PIECES 1 AND 2



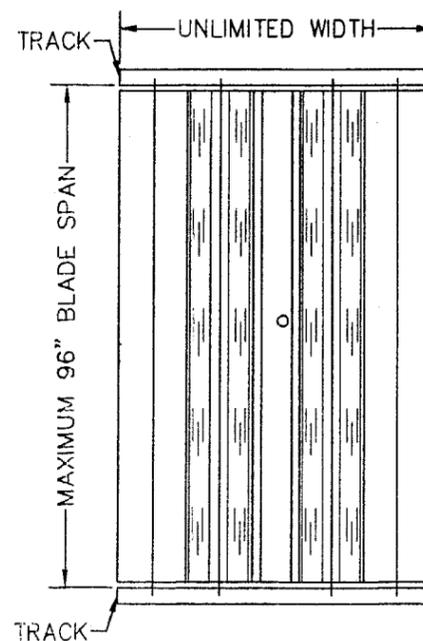
4- CLEAR BLADE ASSEMBLY



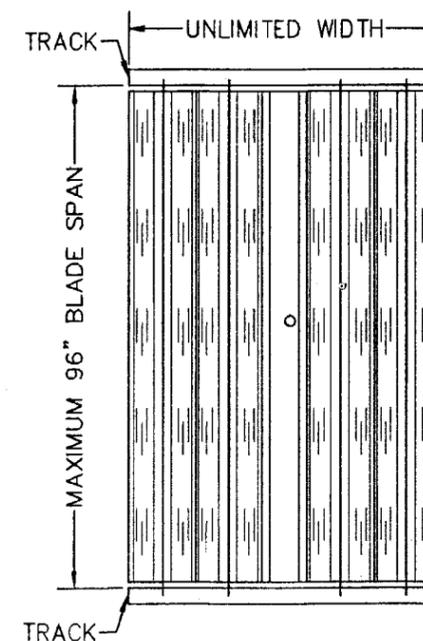
5- SOLID ALUMINUM BLADE



A- ELEVATION & PLAN VIEW METHOD 1
ALTERNATE CLEAR / SOLID



B- ELEVATION & PLAN VIEW METHOD 2
ALTERNATE 2 CLEAR / 2 SOLID



C- ELEVATION & PLAN VIEW METHOD 3
ALL CLEAR BLADE

MANUFACTURER:
LOOKOUT
Shutters, Inc.
1268 MAULDIN ROAD
CALHOUN, GA 30701
Tel.: (877) 200-0234
Fax: (706) 602-6922

PRODUCT:
CLEAR - HT-100
ACCORDION SHUTTER
BLADE COMPONENT

Engineering:
EngCo Inc.
CA 8116
6971 W. Sunrise Blvd. 104
Plantation, Fl. 33313
ENGCO@AOL.COM

[Signature]
FEB 14 2008

Engineer Seal
Pedro De Figueiredo, PE 52609

DRAFTING:
PK DRAFTING & MORE

MIAMI-DADE BCCJ

PRODUCT REVISED
as complying with the Florida
Building Code
Approved by 08-0225.07
Expiration date 07/27/2013
By *[Signature]*
Miami-Dade County Control
Division

Date: 02/14/08
Scale: NA
Design by: PPMF

Drawing Number
08-041

Sheet
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