

Manufacturer: Bovard Studio, Inc.
2281 Highway 34 East
Fairfield, IA 52556

Product Line: Aluminum Fixed Shutter

Compliance:

The above mentioned product has been evaluated for compliance with the requirements of the Florida Department of Community Affairs for Statewide Acceptance per Rule 9B-72.070 method 1(d). The product listed herein complies with the current Florida Building Code.

Product description: Aluminum Fixed Shutter. Frame made of extruded aluminum 6063-T52. Frame is of butt-type corner construction.

Supporting Technical Documentation:

1. Approval document: drawing number FL00404 dated 02/13/08 sheet 1 of 4, titled Series Aluminum Fixed Shutter, prepared, signed and sealed by L. Roberto Lomas, P.E.
2. Test Reports:
 - a) Test Report No.: NCTL-110-10974-1 signed and sealed by Harold E. Rupp, P.E.
National Certified Testing Laboratories.
TAS 201-94 Large Missile Impact Test
TAS 202-94 Uniform Static Air Pressure, ± 75.0 psf design pressure.
TAS 203-94 Cyclic Pressure Loading, ± 75.0 psf design pressure.
Mullion was impacted with #2 SYP 2x4, 102" long and 9lbs missile @ 50f/s
Maximum deflection at impact: .932"
Maximum deflection per Static Pressure: .388"
 - b) Test Report No.: NCTL-110-10974-2 signed and sealed by Harold E. Rupp, P.E.
National Certified Testing Laboratories.
ASTM E1886-02/05 and ASTM E1996-02
ASTM E1886/ E1996 Large Missile Impact, Level D, Wind Zone 4
ASTM E1886/ E1996 Cyclic Load Test ± 75.0 psf
Mullion was impacted with #2 SYP 2x4, 92" long and 9lbs missile @ 50f/s
3. Anchor calculations, report number 510609, prepared, signed and sealed by L. Roberto Lomas, P.E.

Limitations and Conditions of use:

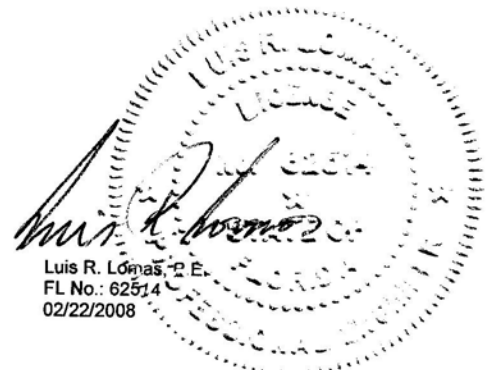
- Maximum design pressure: ± 75.0 psf
- Maximum panel size: 49 5/8"x97 5/8"
- This product is rated to be used in the HVHZ.
- This product is impact resistant and does not require impact protection in wind-borne debris regions.
- Frame material to be extruded aluminum 6063-T52.
- Shutter material to be Lexan Polycarbonate XL-10, 3/8" thick from GE per N.O.A. 07-0212.01
- Panels may be mulled indefinitely as long as panel size is not exceeded.

Installation:

- Units must be installed in accordance with approval document, FL00404

Certification of Independence:

Please note that I don't have nor will acquire a financial interest in any company manufacturing or distributing the product(s) for which this report is being issued. Also, I don't have nor will acquire a financial interest in any other entity involved in the approval process of the listed product(s).



Luis R. Lomas, P.E.
FL No.: 62514
02/22/2008