L. Roberto Lomas P.E.
1432 Woodford Rd.
Lewisville, NC 27023
336-945-9695

Engineering Evaluation Report

Report No.: 511486C

Manufacturer: **USA Shutter Company**
1450 Rail Head Blvd.
Naples, FL 34110

Product Line: Maestran Roll-Up Hurricane Screen – Impact Resistant

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 requirements of the Florida Building Code.

Supporting Technical Documentation:

1. Approval document: drawing number 08-00935 Revision C, titled Maestran Roll-Up Hurricane Screen – Impact Resistant, prepared, signed and sealed by Luis Roberto Lomas P.E.
2. Test Report File No.: 09-628, signed and sealed by Julio E. Gonzalez, P.E.
   Fenestration Testing Laboratory, Inc., Medley, FL.
   TAS 201-94 Large Missile Impact Test
   TAS 202 -94 Uniform Static Air Pressure, ±61.3psf design pressure.
   TAS 203-94 Cyclic Pressure loading ±62.0psf design pressure
   ASTM E330, ASTM E1886-05 and ASTM E1996-05
   ASTM E330 Design pressure: ±61.3psf
   ASTM E1886/ E1996 Large Missile Impact, Level D, Wind Zone 4
   ASTM E1886/ E1996 Cyclic Load Test, ±62.0psf design pressure
3. Test Report File No.: FTL 5278 signed by Manny Sanchez, FTL CEO
   Fenestration Testing Laboratory, Inc., Medley, FL.
   TAS 201-94 and ASTM E 1886-05/E1996-05, Large Missile Impact Test, Level D, Wind Zone 4 (Roll up housing impact only)
4. Test Report File No.: T-11228, signed by Russell L. Chapman
   Hardwood Plywood & Veneer Association Laboratory and Testing Service, Reston, VA.
   ASTM E84 (Aramid fiber testing)
   Flame Spread Index Average: 10
   Smoke Developed Index Average: 35
5. Anchor calculations, report number 511486-1, prepared, signed and sealed by Luis Roberto Lomas P.E.
6. Comparative analysis, report number 511486-2A, prepared, signed and sealed by Luis Roberto Lomas P.E.

Limitations and Conditions of use:

- Maximum design pressure: See approval document (Design pressures based on a 27% porosity)
- Maximum unit size: 267" x 396”
- Fabric material to be Aramid Fiber and Stainless Steel 520 x 390 strands per square meter and 27% open area with 1500 Denier Aramid Fiber Core.
- Frame material: Extruded Aluminum 6063-T5 .140” thick.
- 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.

Installation: Units must be installed in accordance with approval document, 08-000935 Revision C.

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
08/27/2010