L. Roberto Lomas P.E.
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Engineering Evaluation Report

Report No.: 513838A

Manufacturer: Nan Ya Plastics Corp. USA
8989 North Loop East
Houston, TX 77029

Product Line: 6'11" Outswing Hinged Patio Door, Impact, HVHZ

Compliance:
The above mentioned product has been evaluated for compliance with the requirements of the Florida Department of Business and Professional Regulation for Statewide Acceptance per Rule 61G20-3.005 method 1(d). The product listed herein complies with requirements of the current Florida Building Code.

Supporting Technical Documentation:

1. Approval document: drawing number 08-02985, prepared, signed and sealed by Luis Roberto Lomas P.E.
2. Test report No.: CTLA 2019W signed and sealed by Ramesh Patel, P.E.
   Certified Testing Laboratories, Orlando, FL
   TAS 201 Large Missile Impact Test, Level D, Wind Zone 4
   TAS 202 Uniform Static Air Pressure, ±70.0psf design pressure, 10.5psf water penetration.
   TAS 203 Cyclic Pressure loading ±70.0psf design pressure
3. Test report ETC-05-255-16776.1 signed and sealed by Joseph Labora Doldan P.E.
   ETC Laboratories, Rochester, NY
   Fiberglass testing

ASTM D2843	Smoke density	52.1%
ASTM D635	Rate of burning	C1
ASTM D1929	Self ignition temperature	1060 ºF
ASTM D638	Tensile strength unexposed	11,860 psi
	Tensile strength Xenon arc exposed	11,063 psi

4. Test report ETC-05-255-16777.1 signed and sealed by Joseph Labora Doldan P.E.
   ETC Laboratories, Rochester, NY
   Cellular PVC testing

ASTM D2843	Smoke density	49.6%
ASTM D635	Rate of burning	C1
ASTM D1929	Self ignition temperature	950 ºF
ASTM D638	Tensile strength unexposed	6,019 psi
	Tensile strength Xenon arc exposed	6,014 psi

5. Test report ETC-05-255-17144-7 signed and sealed by Joseph Labora Doldan P.E.
   ETC Laboratories, Rochester, NY
   Rigid PVC testing

ASTM D2843	Smoke density	37.4%
ASTM D635	Rate of burning	C1
ASTM D1929	Self ignition temperature	900 ºF
ASTM D638	Tensile strength unexposed	6,140 psi
	Tensile strength Xenon arc exposed	6,053 psi

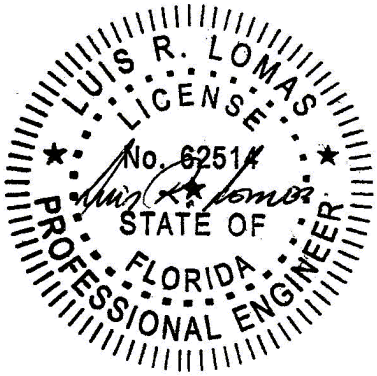
6. Test report ETC-06-255-17412.1 signed and sealed by Joseph Labora Doldan P.E.
   ETC Laboratories, Rochester, NY
   Phenolic Foam testing

ASTM E84	flame spread index	10
	Smoke developed index	95

7. Test report ETC-06-255-17900.0 signed and sealed by Joseph Labora Doldan P.E.
   ETC Laboratories, Rochester, NY
   Phenolic Foam testing

ASTM D1929	Self ignition temperature	1100 ºF

8. Anchor calculations, report number 513838-1, prepared, signed and sealed by Luis Roberto Lomas P.E.



Luis R. Lomas, P.E.
FL No.: 62514
10/06/2020

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Limitations and Conditions of use:

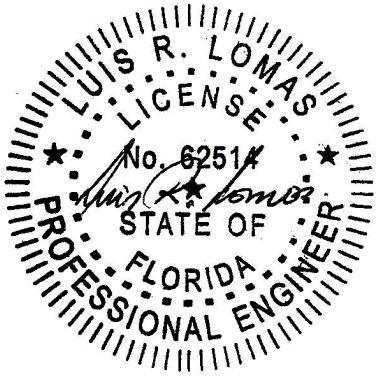
- Maximum design pressure: ±70.0psf
- Maximum unit size: 108 ½" x 82 ½"
- Approved configurations: O/XX, XX/O, O/X, X/O, O/XO, XO/O, O/OX, OX/O, XX, X.
- Units must be glazed per ASTM E1300 refer to installation instructions for details.
- This product is rated to be used in the HVHZ.
- This product is impact resistant and does not require impact protection in wind borne debris regions.
- Frame material to be foam PVC.

Installation:

Units must be installed in accordance with manufacturer's installation instructions and approval document 08-02985.

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).



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