

L. Roberto Lomas P.E.

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Engineering Evaluation Report

Report No.: 513823A

Manufacturer: Nan Ya Plastics Corporation
8989 North Loop East
Houston, TX 77029

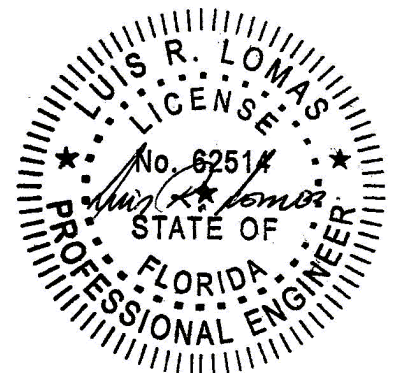
Product Line: Series "MK-1" Fiberglass Skin Glazed Entry Door Outswing w/ or w/o Sidelites – Impact HVHZ

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(a). The product listed herein complies with requirements of the current Florida Building Code.

Supporting Technical Documentation:

1. Approval document: drawing number 08-02972, prepared, signed and sealed by Luis Roberto Lomas P.E.
2. Test report No.: ETC-07-255-18448.5 signed and sealed by Joseph Labora Doldan, P.E.
ETC Laboratories, Rochester, NY
TAS 201 Large Missile Impact Test, Level D, Wind Zone 4
TAS 202 Uniform Static Air Pressure: ± 50.0 psf design pressure, 7.5psf water penetration.
TAS 203 Cyclic Pressure loading, ± 50.0 psf 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 °F
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 °F
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 °F
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 °F
8. Anchor calculations, report number 513823-1, prepared, signed and sealed by Luis Roberto Lomas P.E.



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Limitations and Conditions of use:

- Maximum design pressure: ± 50.0 psf
- Maximum panel size: 35 $\frac{3}{4}$ " x 79 $\frac{1}{4}$ "
- Approved configurations: O/XX/O, O/XX, XX/O, XX, O/X/O, O/X, X/O, X.
- Units must be glazed per ASTM E1300 see installation instructions for glass 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 cellular PVC.

Installation:

Units must be installed in accordance with manufacturer's installation instructions and approval document, 08-02972.

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).

