

L. Roberto Lomas P.E.

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Engineering Evaluation Report

Report No.: 512682C

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

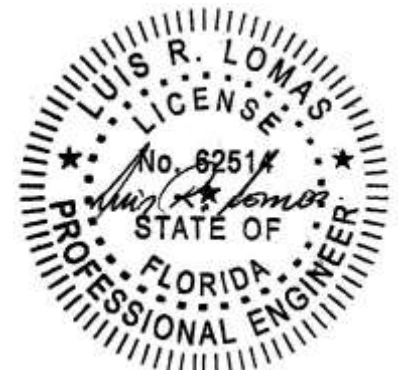
Product Line: Series Out-Swing Transom, Vinyl Transom Window, GTO 12020 - Impact

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 08-01972 Revision B, prepared, signed and sealed by Luis Roberto Lomas P.E.
2. Report No.: ETC-08-209-21116.0 signed by Joseph L Doldan, P.E.
ETC Laboratories, Rochester, NY
TAS 201 Large Missile Impact Test, Level D, Wind Zone 4
TAS 202 Uniform Static Air Pressure, ± 80.0 psf design pressure, 12.0psf water penetration.
TAS 203 Cyclic Pressure loading ± 80.0 psf design pressure
3. Rigid PVC Plastic Testing:
Test report ETC-05-255-17144.1, signed and sealed by Joseph Labora Doldan P.E.
ETC Laboratories, Rochester, NY, ASTM D638
Tensile strength of unexposed samples 6,140psi
Tensile strength of 4500 hour Xenon Arc exposed samples 6,053psi
Self-ignition 900°F
ASTM D635 Rate of burning classification: C-1 (10mm/min, 0.38in/min)
ASTM D2843 Smoke density rating: 37.4
4. Phenolic Foam Board Testing:
Test report ETC-06-255-17412.1, signed and sealed by Joseph Labora Doldan P.E.
ETC Laboratories, Rochester, NY, ASTM E84
Flame spread Index: 10
Smoke developed index: 95
5. SMC Fiberglass Testing:
Test report ETC-05-255-16776.1, signed and sealed by Joseph Labora Doldan P.E.
ETC Laboratories, Rochester, NY, ASTM D638
Tensile strength of unexposed samples 11,860psi
Tensile strength of 4500 hour Xenon Arc exposed samples 11,063psi
Self-ignition 1060°F
ASTM D635 Rate of burning classification: C-1 (15.2mm/min, 0.60in/min)
ASTM D2843 Smoke density rating: 52.1
6. Cellular PVC Testing:
Test report ETC-05-255-16777.1, signed and sealed by Joseph Labora Doldan P.E.
ETC Laboratories, Rochester, NY, ASTM D638
Tensile strength of unexposed samples 6,019psi
Tensile strength of 4500 hour Xenon Arc exposed samples 6,014psi
Self-ignition 950°F
ASTM D635 Rate of burning classification: C-1 (10.2mm/min, 0.4in/min)
ASTM D2843 Smoke density rating: 49.6
7. Anchor calculations, report number 512682-1A, prepared, signed and sealed by Luis Roberto Lomas P.E.



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Limitations and Conditions of use:

- Maximum design pressure: ± 80.0 psf
- Maximum unit size: 145 3/8" x 24"
- Units must be glazed per ASTM E1300, according to glazing details in approval drawing.
- 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, 08-01972 Revision B.

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).

