L. Roberto Lomas P.E.
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Engineering Evaluation Report

Report No.: 514463G

Manufacturer: Nan Ya Plastics Corporation U.S.A.
8989 North Loop East
Houston, TX 77029

Product Line: SLPS Patio Door Lite 8'0 OS - Large Missile Impact - HVHZ

Compliance:
The product listed herein complies with requirements of the current Florida Building Code.

Supporting Technical Documentation:

1. Approval document: drawing number 08-03450 Revision F, prepared, signed and sealed by Luis Roberto Lomas P.E.
2. Report No.: NCTL 210-4112-04 Rev. 4 signed and sealed by Douglas J. McDougall P.E.
   National Certified Testing Laboratories, Orlando, FL
   TAS 202 Design pressure: ±50.0psf
   Water penetration resistance 6.0psf (with soft pvc frame)
   7.5psf (with standard frame)
   10.5psf (with standard frame and 1/2" sill riser)
   TAS 201 & TAS 203 Large Missile Impact, Level D, Wind Zone 4
   Cyclic Load Test, ±50.0psf design pressure
3. Test report No.: CTLA 1420W signed and sealed by Ramesh Patel P.E.
   Certified Testing Laboratories, Orlando, FL
   TAS 201/TAS 203 Large Missile Impact Test, Level D, Wind Zone 4
   Cyclic Pressure loading ±50.0psf design pressure
   TAS 202 Uniform Static Air Pressure, ±50.0psf design pressure, 7.50psf water penetration.
4. Test report No.: NCTL 210-3893-2 signed and sealed by Gerard J. Ferrara P.E.
   National Certified Testing Laboratories, Orlando, FL
   TAS 201/TAS 203 Large Missile Impact Test, Level D, Wind Zone 4
   Cyclic Pressure loading ±45.0psf design pressure
   TAS 202 Uniform Static Air Pressure, ±45.0psf design pressure, 7.50psf water penetration.
5. 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

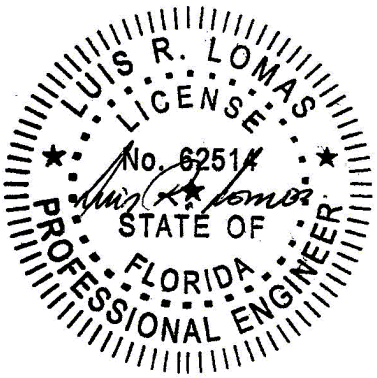
6. Test report ETC-05-255-16776.1 signed and sealed by Joseph Labora Doldan P.E.
   ETC Laboratories, Rochester, NY
   Fiberglass testing

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

7. 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

8. Anchor calculations, report number 514309-1C, prepared, signed and sealed by Luis Roberto Lomas P.E.



Luis R. Lomas, P.E.
FL No.: 62514
08/03/2023

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Limitations and Conditions of use:

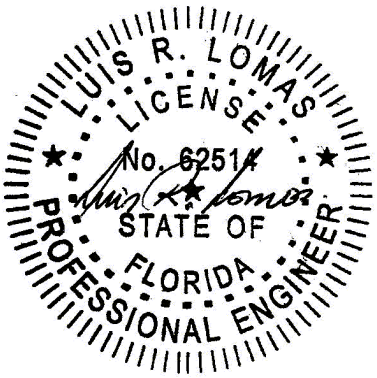
- Design pressure: Refer to approval drawing
- Panel size: 35 3/4" x 95 1/4"
- Approved configurations: X, X/O, O/X, OX, XO, OX/O, XO/O, XX, XX/O, O/XX, OOX, O/OX, OO/X, OXX, XXO, OXX/O, O/XXO.
- Units must be glazed per ASTM E1300, according to glazing details in approval drawing.
- This product is 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 Composite.
- Panel skin to be .095" fiberglass.

Installation:

Units must be installed in accordance with manufacturer's installation instructions and approval document 08-03450, Revision F.

Certification of Independence:

Please note that I do not 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 do not 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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