

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION DR-166

Effective October 1, 2006

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation 3 years after the effective date.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code and the Texas Engineering Practice Act.

**Neuma Gliding French Patio Door with or without sidelites, Impact Resistant, manufactured by
Nan-Ya Plastics Corporation USA
8989 North Loop East
Houston, TX 77029
(713) 674-7822**

will be acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

The Gliding French Door is a foam-PVC sliding glass door (OX) mullied to a fixed sidelite (O). The sliding glass door and sidelite evaluated in this report are impact resistant. This evaluation report includes the following configurations: O, OX, and OXO.

Overall Dimensions: 12'-1" wide x 7'-11 $\frac{3}{4}$ " high x 5 $\frac{3}{4}$ " deep

Panel Descriptions: Operating panel is 48" wide x 92 $\frac{1}{2}$ " high x 1 $\frac{3}{4}$ " deep, Fixed panels are 47 $\frac{13}{16}$ " wide x 92 $\frac{5}{16}$ " high x 1 $\frac{3}{4}$ " deep. The daylight opening is 37" wide x 79" high.

Frame and Panel Construction: The frame members consist of cellular PVC composite. The frame members are coped and butted, and the corners are secured with #10 x 2 $\frac{1}{2}$ " long sheet metal screws, four (4) at the jamb/head corners and three (3) at the jamb/sill corners. The panel members are constructed of cellular PVC composite and wood stiles between a fiberglass skin.

Mullion: The sliding glass door and sidelite are secured by a 5 $\frac{3}{4}$ " deep x $\frac{1}{8}$ " thick aluminum mullion extending the full height of the jambs. The door and sidelite are each anchored through the mullion with six (6) #10 x 2" flathead screws (twelve (12) total).

Glazing: Applies to the operable and fixed panels.

Glazing Material (Impact Resistant): All panels are glazed with nominal 1" thick insulating glass consisting of a 0.120" thick tempered exterior lite, an aluminum box spacer, and a 0.344" ($\frac{1}{8}$ " annealed, 0.090 PVB, $\frac{1}{8}$ " annealed) thick laminated interior lite.

PRODUCT DESCRIPTION (Continued)

Glazing Method: Each panel is interior drop-in glazed with a snap-in vinyl glazing bead and silicone sealant.

Panel Reinforcement: $\frac{1}{8}$ " wide x $1\frac{1}{4}$ " deep flat steel laminated into the stiles $3\frac{1}{4}$ " from each edge.

Hardware: Standard Series: One (1) handle set on operable panel lock stile. One (1) steel single point lock located 41" from the bottom of the panel. One (1) cast zinc keeper.

Product Identification: A National Accreditation & Management Institute, Inc. (NAMI) certification program label will be affixed to the sliding glass door unit and sidelite. The label shall include the manufacturer's name, performance characteristics, and approved inspection agency to indicate compliance with AAMA/NWWDA 101/I.S.2 (SGD-C50 145 x 96), ASTM E 1886, and ASTM E 1996 (Large missile impact rated – Level D). The certification program label includes the manufacturer's code name (N-661-1).

LIMITATIONS

Product Designation	Configuration	Maximum Overall Width ¹ (in.)	Maximum Overall Height ¹ (in.)	Design Pressures (psf)
SGD-C50	OXO	145	96	±50

¹The active and inactive panels are limited to the width and height indicated in the product description, panel descriptions section of this report.

Impact Resistance: Door assemblies constructed with impact resistant glazing satisfy the Texas Department of Insurance's criteria for protection from windborne debris. These door assemblies will not need to be protected with an impact protective system.

Acceptance of Smaller Assemblies: Door assemblies with dimensions equal to or smaller than those specified above are acceptable within the limitations specified in this report.

INSTALLATION INSTRUCTIONS

General: The door assembly shall be installed in accordance with the manufacturer's installation instructions and this product evaluation report. The wood-framing members shall be a minimum Southern-Yellow-Pine (SYP) (G≥0.55) lumber.

The door assembly shall be fastened through the frame into the wood framing members with a minimum of sixty-three (63) #10 x 3" long wood screws, with a $1\frac{1}{2}$ " minimum embedment, located as follows:

Head and Sill: 6" from each jamb, 3" and 6" from the mullion securing the sidelight to the gliding door, and evenly distributed between the jambs and mullion at a maximum spacing of $8\frac{3}{8}$ " o.c.

Jambs: 6" from the head and sill, and evenly distributed between the head and sill at a maximum spacing of $8\frac{3}{8}$ " o.c.

The perimeter of the frame shall be sealed with silicone sealant.

INSTALLATION INSTRUCTIONS (Continued)

If the frame is attached to concrete rather than wood framing members, a $\frac{3}{16}$ " diameter flat head Tapcon concrete anchor may be substituted for the #10 x 3" screw noted above. The Tapcon anchor must have a minimum embedment into the concrete of $1\frac{1}{4}$ " with a 2" minimum edge distance.

Note: The manufacturer's installation instructions shall be available on the job site during installation. Fasteners shall be corrosion resistant as specified in the International Residential Code (IRC) and the International Building Code (IBC).