PRODUCT EVALUATION

Effective Date: August 1, 2014
Reevaluation Date: April 2015

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 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.

Fiberglass Outswing Hinged Glazed Doors with Sidelites, Impact Resistant, manufactured by

Nan Ya Plastics Corporation USA / Neuma Doors
8989 North Loop East
Houston, Texas 77029
Telephone: (713) 674-7822

General Description:

<table>
<thead>
<tr>
<th>System</th>
<th>Description</th>
<th>Label Rating</th>
<th>Design Pressure Rating</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Fiberglass Outswing Hinged Glazed Doors with Sidelites</td>
<td>R-PG70 143 x 83-SHD</td>
<td>+70/-70 psf</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Missile Level D; DP +70/-70</td>
<td></td>
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</table>

Product Dimensions:

<table>
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<tr>
<th>System</th>
<th>Overall Size</th>
<th>Active/Passive Panel Size</th>
<th>Sidelite Panel Size</th>
<th>Glass Daylight Opening Size</th>
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<tr>
<td>1</td>
<td>143.00&quot; x 82.50&quot;</td>
<td>Two: 34.50&quot; x 80.31&quot;</td>
<td>Two: 34.50&quot; x 80.31&quot;</td>
<td>25.00&quot; x 63.00&quot;</td>
</tr>
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Product Identification (Certification Agency Label on Door (Two Labels)):

<table>
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<tr>
<th>System</th>
<th>Certification Agency</th>
<th>Manufacturer's Name or Code Name</th>
<th>Product Name</th>
<th>Test Standards</th>
</tr>
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<tr>
<td>1</td>
<td>NAMI</td>
<td>Nan Ya Plastics USA</td>
<td>Label 1: Outswing Fiberglass Patio Door w/ or w/o Sidelites</td>
<td>Label 1: AAMA/WDMA/CSA 101/I.S.2/A440-08; AAMA 506-08; ASTM E 1886-05; ASTM E 1996-05; Missile Level D</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Label 2: Out-Swing Impact Rated Fiberglass Clad Entrance Door w/ or w/o Sidelites</td>
<td>Label 2: ASTM E 1886-05; ASTM E 1996-05; Missile Level D; Wind Zone 4</td>
</tr>
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</table>
Hardware:
- Hinges; Three required per door; Secured to the door panel with four No. 10 x 2” flat head screws. Secured to the door jamb with two No. 10 x 7/8” screws and two No. 10 x 2” screws.
- Surface mount 4-point locking system with lever type handle key operator; Located on the active door panel.
- Surface mount 2-point locking system with lever type handle key operator; Located on the inactive panel.
- Strike plate; One required; Located on the inactive panel lockstile; Secured with two No. 10 x 7/8” screws and two No. 10-32 x 7/16” screws.
- Strike plate; Two required; Located on the inactive panel lockstile; Secured with two No. 10 x 7/8” screws.
- Strike plate – head; One required; Located on the door frame head; Secured with two No. 10 x 7/8” screws.
- Strike plate – threshold; One required; Secured to the threshold with two No. 8 x 5/8” screws.

Sill and Threshold:
- 1.63” high aluminum outswing sill

Impact Resistance:

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<th>Impact Resistant</th>
<th>Requirement</th>
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<tr>
<td>Yes</td>
<td>These products satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the Inland I and Seaward zone. The assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded.</td>
</tr>
</tbody>
</table>

Qualified Configurations: O / X / OX / XO / OXO / XX / XXO / OXX / OXXO. Sidelites may be installed without doors.

Installation:

Design Drawings: The doors shall be installed in accordance with Drawing No. 08-01539, titled “Out-Swing Entrance Door w/ & w/o Sidelites,” sheets 1 through 9 of 9, dated May 30, 2012, revision B, dated March 17, 2014, signed and sealed by Luis R. Lomas., P.E on March 20, 2014. The stated drawings will be referred to as the approved drawings in this evaluation report.

Wall Framing Construction: The doors may be mounted to several types of wall framing construction. The types of wall framing construction allowed include:
- Concrete (minimum compressive strength: 3,200 psi)
- Hollow concrete block; ASTM C-90, Grade N, Type 1 (or greater)
- Wood dimension lumber (minimum Spruce-Pine-Fir)
Installation Details:
- Refer to Sheet 1 of 9 of the approved drawings for the elevation and notes.
- Refer to Sheets 3 of 9 and 4 of 9 of the approved drawings for the anchor layout.
- Refer to Sheets 5 of 9 through 9 of 9 of the approved drawings for installation details.
- The approved drawings indicate the minimum embedment depths for the fasteners and the minimum edge distances (minimum distance fastener must be from the edge of the substrate material) for the fasteners.

Note: The manufacturer’s installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.
1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2006 IRC, 2006 IRC WITH STATE OF TEXAS MODIFICATIONS.
2) WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. WOOD FRAMING OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3) 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL WHERE 1X BUCK IS NOT USED DIS SIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4) APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
5) UNITS MUST BE GLAZED PER ASTM E1300-04. SEE SHEET 3 FOR GLAZING DETAIL.
6) ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR OF 0.1 WAS USED FOR WOOD ANCHOR CALCULATIONS.
7) FRAME JAMB AND HEAD MATERIAL, CO-EXTRUDED PVC FOAM.
8) FRAME SILL MATERIAL, CO-EXTRUDED PVC FOAM WITH ALUMINUM CLADDING.
9) DOOR PANEL SKELETON MATERIAL: FIBERGLASS SKIN WITH PVC FOAM TOP AND BOTTOM RAILS, AND PVC FOAM VERTICAL STILES WITH PINE REINFORCEMENTS AND POLYURETHANE FOAM CORE.
10) HINGE LOCATION: 9", 40 7/8" AND 72 1/2" FROM BOTTOM.
11) MAX PANEL SIZE: 34 1/2" X 80 5/16"

NOTES:

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**OUT-SWING ENTRANCE DOUBLE DOOR W/ SIDELITES**

**FIBERGLASS CLAD**

**EXTERIOR VIEW**

**DESIGN PRESSURE RATING**

| ±70.0PSF | LARGE AND SMALL MISSILE IMPACT |

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SIGNED: 03/20/2014

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<td>3, 4</td>
<td>ANCHORING LAYOUTS</td>
</tr>
<tr>
<td>5 - 9</td>
<td>INSTALLATION DETAILS</td>
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</table>
ANCHORING NOTES:

1) SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPADE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM THICKNESS TO BE 1/4".

2) FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16" TAPCOIN OF SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM Embedment INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ANCHORING LAYOUT AND INSTALLATION DETAILS.

3) FOR ANCHORING INTO 2x4 Sawn or 2x6 Framing USE #10 WOOD SCREW OF SUFFICIENT LENGTH TO ACHIEVE A 3 1/2" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ANCHORING LAYOUT AND INSTALLATION DETAILS.

4) ALL FASTENERS TO BE CORROSION RESISTANT.

5) INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:

A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42
B. CONCRETE - MINIMUM COMPRRESSIVE STRENGTH OF 3,200 PSI
C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).