



BUILDING DROPS

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Certificate of Authorization: 29578

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Product Evaluation Report
of

ETO Doors
Wood Opaque Inswing
Impact Rated Doors

for
Florida Product Approval

FL# FL

Report No. 880

Florida Building Code 2007 & 2010
Per Rule 9N-3

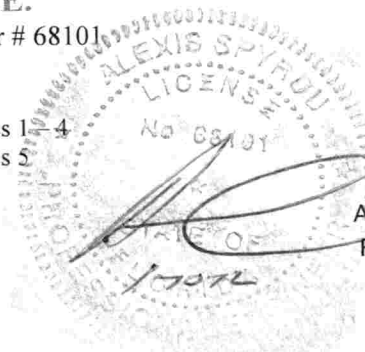
Method: 1 – D (Engineering Evaluation)
Category: Exterior Doors
Sub – Category: Swinging Exterior Door Assemblies

Product: Wood Opaque Inswing Impact Rated Doors
Material: Mahogany (Min. S.G.=0.44)
Product Dimensions: 98.50" x 97.25"

Prepared For:
ETO Doors
1340 E. 6th Street
Los Angeles, CA 90021

Prepared by:
Alexis Spyrou, P.E.
Florida Professional Engineer # 68101
Date: 1/06/2012

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Alexis Spyrou, P.E.
Florida No. 68101



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Date: 1/06/2012

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Manufacturer: ETO Doors

Product Category: Exterior Doors

Product Sub-Category: Swinging Exterior Door Assemblies

Compliance Method: State Product Approval Rule 9N-3.005 (1)(d)

Product Name: Wood Opaque Inswing Impact Rated Doors
98.50" x 97.25"
(Impact)

Scope: This is a Product Evaluation Report issued by Alexis Spyrou, P.E. (FL # 68101) for **ETO Doors** based on Rule Chapter No. 9N-3.005, Method 1d of the State of Florida Product Approval, Department of Community Affairs - Florida Building Commission.

Alexis Spyrou, P.E. does not have nor will acquire financial interest in the company manufacturing or distributing the product or in any other entity involved in the approval process of the product named herein.

This product has been evaluated for use in locations adhering to the 2007 & 2010 Florida Building Code.

See Installation Instructions **ETO005**, signed and sealed by Alexis Spyrou, P.E. (FL # 68101) for specific use parameters.

Limits of Use:

1. This product has been evaluated and is in compliance with the 2007 & 2010 Florida Building Code, including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment into substrate material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product complies with Section 1609.1.2 of the 2007 & 2010 Florida Building Code and does not require an impact resistant covering.
4. Site conditions that deviate from the details of drawing **ETO005** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **ETO005** for size and design pressure limitations.



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Quality Assurance:

The manufacturer has demonstrated compliance of door products in Accordance with the Florida Building Code and Rule 9N-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity through **National Accreditation & Management Institute, Inc.** (FBC Organization #QUA1789)

Performance Standards:

The product described herein has been tested per:

- TAS 201-94
- TAS 202-94
- TAS 203-94

Referenced Data:

1. Product Testing performed by **Certified Testing Laboratories**
(FBC Organization # TST1577)
Report #: CTLA 2022W, Report Date: 12/15/2011
2. Product Testing performed by **Certified Testing Laboratories**
(FBC Organization # TST1577)
Report #: CTLA 2022W-1, Report Date: 12/15/2011
3. Quality Assurance
National Accreditation and Management Institute
(FBC Organization #: QUA 1789)
4. **Miami Dade BCCO**
(FBC Organization #: CER 1592)
NOA #: 08-1118.07



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Installation: 1. Approved anchor types and substrates are as follows:

Through Frame Installation:

- A. For two by (2X) wood buck substrate, use **#10 Wood Screw** type installation anchors of sufficient length to achieve a minimum embedment of 1.50" into the wood substrate.
- B. For concrete or masonry substrate where one by (1X), non-structural, wood bucking is employed, use **3/16" diameter ITW Tapcon** type concrete screw anchors of sufficient length to achieve minimum embedment of 1.25" into concrete or masonry.
- C. For concrete or masonry substrate where wood bucking is NOT employed, use **3/16" diameter ITW Tapcon** type concrete screw anchors of sufficient length to achieve minimum embedment of 1.25" into concrete or masonry.
- D. For steel stud substrate, use **#10-16 ITW Tek Screw** type installation anchors of sufficient length to achieve a minimum three threads penetration beyond steel structure.

Refer to Installation Instructions (ETO005) for anchor spacing and more details of the installation requirements.

Design Pressure:

Design Pressure	
Positive	70* PSF
Negative	70 PSF

*Product has not been rated for water infiltration. If authority having jurisdiction requires that product meets this requirement, product shall be used when installed at location protected by overhang such that overhang (OH) ratio = OH length/OH height is 1.0.



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Installation Method ETO Doors Wood Opaque Inswing Impact Rated Doors

