



BUILDING DROPS

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Product Evaluation Report *of*

**Acadian Iron Works
Outswing Wrought Iron Doors**

for
Florida Product Approval

Report No. 2633

**2010 Florida Building Code
Per Rule 61G20-3**

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

Product: *Outswing Wrought Iron Doors*
Material: Steel
Product Dimensions: *144" X 76" (Specimens 1, 2, 3, and 5)*
138" X 84" (Specimens 4 and 6)

Prepared For:
Acadian Iron Works
2805 St. Charles Ave.
Monroe, LA 71201

Prepared by:
Hermes F. Norero, P.E.

Florida Professional Engineer # 73778

Date: 12/13/2013

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Hermes F. Norero, P.E.

Florida No. 73778



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Date: 12/13/2013

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Manufacturer: Acadian Iron Works

Product Category: Exterior Doors

Product Sub-Category: Swinging Door Assemblies

Compliance Method: State Product Approval Rule 61G20-3.005 (1)(d)

Product Name: **Outswing Wrought Iron Doors**
144" X 76" (Specimens 1, 2, 3, and 5)
138" X 84" (Specimens 4 and 6)

Scope: This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for **Acadian Iron Works** based on Rule Chapter No. 61G20-3.005, Method 1d of the State of Florida Product Approval, Department of Community Affairs - Florida Building Commission.

Hermes F. Norero, 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 2010 Florida Building Code.

See Installation Instructions **AIW003**, signed and sealed by Hermes F. Norero, P.E. (FL # 73778) for specific use parameters.

Limits of Use:

1. This product has been evaluated and is in compliance with the 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 2010 Florida Building Code and does not require an impact resistant covering.
5. Site conditions that deviate from the details of drawing **AIW003** require further engineering analysis by a licensed engineer or registered architect.
6. See Installation Instructions **AIW003** for size and design pressure limitations.

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Quality Assurance Entity: The manufacturer has demonstrated compliance of window products in Accordance with the Florida Building Code and Rule 61G20-3.005 (3) for manufacturing under a Certification Agency through **National Accreditation & Management Institute** (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 **Element Materials Technology** (FBC Organization #: TST9778)
Report #: ESP010866P, Report Date: 10/25/2013
2. Quality Assurance Entity
National Accreditation & Management Institute
(FBC Organization #QUA1789)
3. Miami-Dade PERA (DuPont SentryGlas Interlayer)
NOA 11-0624.02, Exp: 01/14/2017

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

Through Strap Installation:

- A. For two by (2X) wood buck substrate (Min. S.G. = 0.55), use four (4) **#14 Wood Screw** type installation anchors per strap of sufficient length to achieve a minimum embedment of 1.50" into the wood substrate.
- B. For concrete (Min. $f'c = 3000$ psi) or masonry (Conforms to ASTM C90) substrate where one by (1X), non-structural, wood bucking is employed, use two (2) **¼" diameter ITW Tapcon** type concrete screw anchors per strap of sufficient length to achieve minimum embedment of 1.25" into concrete or masonry.
- C. For concrete (Min. $f'c = 3000$ psi) or masonry (Conforms to ASTM C90) substrate where wood bucking is NOT employed, use two (2) **¼" diameter ITW Tapcon** type concrete screw anchors per strap of sufficient length to achieve minimum embedment of 1.25" into concrete or masonry.
- D. For steel stud substrate (Min 18 Ga., $F_y = 33$ ksi) use four (4) **¼" ITW TEK Screw** type steel stud anchors per strap of sufficient length to achieve minimum 3 threads penetration beyond steel structure.

Through Threshold/Sidelite Installation:

- A. For two by (2X) wood buck substrate (Min. S.G. = 0.55), use **#14 Wood Screw** type installation anchors of sufficient length to achieve a minimum embedment of 1.50" into the wood substrate.
- B. For concrete (Min. $f'c = 3000$ psi) substrate only, use **¼" diameter ITW Tapcon** type concrete screw anchors of sufficient length to achieve minimum embedment of 1.75" into concrete or masonry.

Refer to Installation Instructions (**AIW003**) for anchor spacing and more details of the installation requirements.

Design Pressure:

All Configurations	
Positive	70.0 PSF
Negative	70.0 PSF

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