



BUILDING DROPS

A Perfect Solution in Every Drop

Certificate of Authorization: 29578

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Product Evaluation Report *Of*

JELD-WEN, inc.
Contours Premium Opaque Steel Door
in Dunbarton Redi-Flex 90 Min. Steel Frame (I/S & O/S)

for
Florida Product Approval
FL# FL

Report No. 2257
Florida Building Code 2010
Per Rule 9N-3

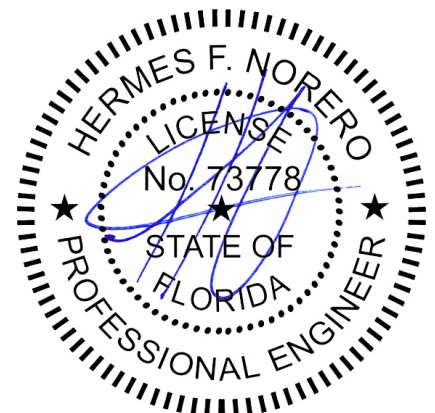
Method: 1 – A (Certification)
Category: Exterior Doors
Sub – Category: Swinging Exterior Door Assemblies

Product: *Contours Premium Opaque Steel Door in
Dunbarton Redi-Flex 90 Min. Steel Frame (I/S
& O/S)*
Material: *Steel*
Product Dimensions: *35-3/4" x 86-5/8" (Inswing Maximum)
35-3/4" x 85-3/8" (Outswing Maximum)*

Prepared For:
JELD-WEN, inc.
3737 Lakeport Blvd.
Klamath Falls, OR. 97601

Prepared by:
Hermes F. Norero, P.E.
Florida Professional Engineer # 73778
Date: 12/07/2012

Contents:
Evaluation Report Pages 1 – 4
Installation Details Pages 5



Hermes F. Norero, P.E.
Florida No. 73778



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Manufacturer:	JELD-WEN, inc.
Product Category:	Exterior Doors
Product Sub-Category:	Swinging Exterior Door Assemblies
Compliance Method:	State Product Approval Rule 9N-3.005 (1)(a)
Product Name:	Contours Premium Opaque Steel Door in Dunbarton Redi-Flex 90 Min. Steel Frame (I/S & O/S) 35-3/4" x 86-5/8" (Inswing Maximum) 35-3/4" x 85-3/8" (Outswing Maximum)

Scope: This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for **JELD-WEN, inc.** based on Rule Chapter No. 9N-3.005, Method 1a 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 **A008267-FL**, 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.
4. Site conditions that deviate from the details of drawing **A008267-FL** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **A008267-FL** for size and design pressure limitations.

Hermes F. Norero, P.E.

Florida No. 73778

Page 2 of 5



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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:

- ASTM E 283-04
- ASTM E 330-02
- ASTM E 331-00
- ASTM E 1886-06
- ASTM E 1996-06
- TAS 201-94
- TAS 202-94
- TAS 203-94

Referenced Data:

1. Product Testing performed by **National Certified Testing Laboratories** (FBC Organization # TST1589)
Report #: NCTL-210-3844-1, Report Date: 10/29/2012
Report #: NCTL-210-3844-1A, Report Date: 10/29/2012
2. Product Testing performed by **Certified Testing Laboratories** (FBC Organization # TST1577)
Report #: CTLA 1167W-1, Report Date: 11/07/2003
3. Quality Assurance
National Accreditation and Management Institute
(FBC Organization #: QUA 1789)
4. Component Material Testing of Dylite Expandable Polystyrene by **Intertek Testing Services NA, Inc.**
ASTM E84-08
Report#: 3113726SAT-001 R1 Report Date: 03/13/2009

Equivalence of Test Standards:

ASTM E84-08 has been evaluated for differences in test methodology, if any, between the edition referenced in the 2010 Florida Building Code, ASTM E84-07. After review of the referenced standard and editions, it has been found that no significant technical changes have been made to the test standards that would affect the results. All referenced standards have been found to be equivalent. All materials test results meet minimum requirements of the 2010 FBC including HVHZ provisions.

Hermes F. Norero, P.E.

Florida No. 73778

Page 3 of 5



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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 installation directly to concrete or masonry substrate or 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 substrate, use **#10 Self-Drilling screw** type steel frame anchors of sufficient length to achieve a minimum three threads penetration beyond steel structure.

Refer to Installation Instructions (**A008267-FL**) for anchor spacing and more details of the installation requirements.

Design Pressure:

Design Pressure		
Door Type	Standard AFCO Threshold	Endura ADA Threshold
Outswing	+66 PSF ²	+47 PSF ¹
	-66 PSF ²	-47 PSF ¹
Inswing	+66 PSF ¹	+47 PSF ¹
	-66 PSF ¹	-47 PSF ¹

Notes

1. ***When using product as either an inswing unit and/or using ADA threshold 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.***
2. ***Outswing units using the standard AFCO threshold are rated for water infiltration up to a positive design pressure of 55 PSF, where required.***



Installation Method JELD-WEN, inc. Contours Premium Opaque Steel Door in Dunbarton Redi-Flex 90 Min. Steel Frame (I/S & O/S)

