



# BUILDING DROPS

A Perfect Solution in Every Drop

Certificate of Authorization: 29578

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## Product Evaluation Report

*of*

**Croft, LLC.**  
**“Series 96”**  
**Single Hung Window**

*for*

**Florida Product Approval**  
**FL# 15585**

**Report No. 4153**

### Current Florida Building Code

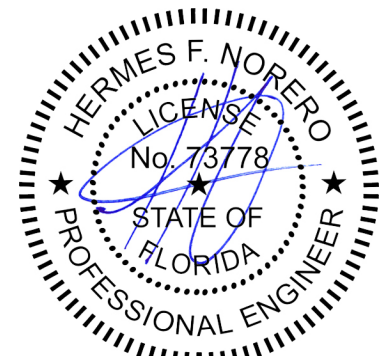
**Method:** 1 – A (Certification)  
**Category:** Windows  
**Sub – Category:** Single Hung

**Product:** *Series 96 Single Hung Window*  
**Material:** 6063-T5 Aluminum  
**Product Dimensions:** 52” X 76” (*Flange Frame*)  
36” x 72” (*Fin Frame*)  
48” x 72” (*Maximum Size Fin Frame*)

**Prepared For:**  
**Croft, LLC.**  
**P.O. Box 826**  
**McComb, MS 39649**

**Prepared by:**  
**Hermes F. Norero, P.E.**  
Florida Professional Engineer # 73778  
Date: 02/11/2016

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



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**Manufacturer:** Croft, LLC.

**Product Category:** Windows

**Product Sub-Category:** Single Hung

**Compliance Method:** State Product Approval Rule (1)(a)

**Product Name:** **Series 96 Single Hung Window**  
52" X 76" (Flange Frame)  
36" x 72" (Fin Frame)  
48" x 72" (Maximum Size Fin Frame)

**Scope:** This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for **Croft, LLC.** based on Method 1a of the State of Florida Product Approval, Department of Business and Professional Regulation - 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 Florida Building Code.

See Installation Instructions **CRF014**, 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 Florida Building Code, excluding 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 Chapter 16 of the Florida Building Code and does require an impact resistant covering.
4. Site conditions that deviate from the details of **CRF014** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **CRF014** for size and design pressure limitations.

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**Certification Agency:** The manufacturer has demonstrated compliance of window products in Accordance with the Florida Building Code and State Rule for manufacturing under an approved certification agency through **American Architectural Manufacturers Association** (FBC Organization #: CER1498)

**Performance Standards:** The product described herein has been tested per:

- AAMA/WDMA/CSA 101/I.S.2/A440-08

**Referenced Data:**

1. Product Testing performed by **Architectural Testing, Inc.**  
(FBC Organization # TST1558)  
Report #: B7508-.01-801-47, Report Date: 03/28/12  
Report #: B3405.01-801-47, Report Date: 10/07/11
2. Certification Agency  
**American Architectural Manufacturers Association**  
(FBC Organization #: CER1498)



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

**For Flange Frame Installation:**

- A. For two by (2X) wood frame substrate, use **#10 Wood Screw** type wood frame anchors of sufficient length to achieve minimum embedment of 1.50" into wood framing.
- 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 directly into concrete or masonry substrate, 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 Tek Screw** type steel frame anchors of sufficient length to achieve 3 threads minimum penetration beyond steel structure.

**For Fin Frame Installation:**

- A. 36" X 72" Unit: For two by (2X) wood frame substrate, use **#8 Wood Screw** type wood frame anchors of sufficient length to achieve minimum embedment of 1.50" into wood framing.
- B. For two by (2X) wood frame substrate, use **#10 Wood Screw** type wood frame anchors of sufficient length to achieve minimum embedment of 1.50" into wood framing.
- C. For steel substrate, use **#10 Tek Screw** type steel frame anchors of sufficient length to achieve 3 threads minimum penetration beyond steel structure.

Refer to manufacturer Installation Instructions **CRF014** for anchor spacing and more details of the installation requirements.

**Design Pressure:**

| FRAME TYPE | OVERALL SIZE |        | DP RATING  | MISSILE IMPACT RATING |
|------------|--------------|--------|------------|-----------------------|
|            | WIDTH        | HEIGHT |            |                       |
| FLANGE     | 52"          | 76"    | +/- 35 PSF | NON-IMPACT            |
| FIN        | 48"          | 72"    | +/- 35 PSF | NON-IMPACT            |
|            | 36"          | 72"    | +/- 40 PSF | NON-IMPACT            |

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