



# BUILDING DROPS

A Perfect Solution in Every Drop

Certificate of Authorization: 29578

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## Product Evaluation Report

*of*

**Croft, LLC.**

**“Series 4400/4440”**

**Picture Window**

*for*

**Florida Product Approval**

**FL# 11345**

**Report No. 4234**

### Current Florida Building Code

<b>Method:</b>	<b>1 – A (Certificate Method)</b>
<b>Category:</b>	<b>Windows</b>
<b>Sub – Category:</b>	<b>Fixed</b>
<b>Product:</b>	<i>Series 4400/4440 Picture Window</i>
<b>Material:</b>	<i>6063-T5 Aluminum</i>
<b>Product Dimensions:</b>	<i>72” x 72” 96” x 60”</i>

### Prepared For:

**Croft, LLC.**

**P.O. Box 826**

**McComb, MS 39649**

### Prepared by:

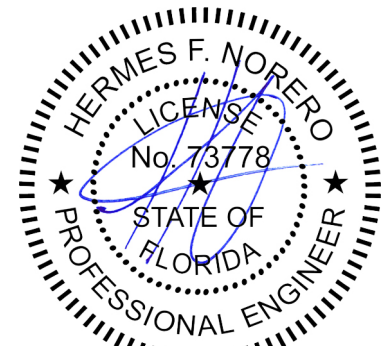
**Hermes F. Norero, P.E.**

Florida Professional Engineer # 73778

Date: 03/08/2016

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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:** Fixed

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

**Product Name:** Series 4400/4440 Picture Window  
72" x 72"  
96" x 60"

**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 **CRF010**, 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 drawing **CRF010** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **CRF010** 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 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** (FBC Organization # TST1795)  
Report #: B7507.01-801-47, Report Date: 05/08/12
2. Certification Agency  
**American Architectural Manufacturers Association**  
(FBC Organization #: CER1498)



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

**Nail Fin Installation:**

- A. For two by (2X) wood frame substrate, use **#8 PH Wood Screws** type wood frame anchors of sufficient length to achieve minimum embedment of 1.50" into wood framing.
- B. For steel stud substrate (Min 18 Ga., Fy = 33 ksi), use **#8 Grade 5 TEK PH or HWH Screw** type steel stud anchors of sufficient length to achieve minimum 3 threads penetration beyond steel structure.

**Through Frame Installation:**

- A. For two by (2X) wood buck substrate (Min. S.G. = 0.55), use **#8 PH 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) or masonry (Conforms to ASTM C90) substrate where one by (1X), non-structural, wood bucking is employed, use **3/16" diameter ITW HWH Tapcon** type concrete screw anchors 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 **3/16" diameter ITW HWH Tapcon** type concrete screw anchors of sufficient length to achieve minimum embedment of 1.25" into concrete or masonry.
- D. For steel stud substrate (Min 18 Ga., Fy = 33 ksi), use **#8 Grade 5 TEK PH or HWH Screw** type steel stud anchors of sufficient length to achieve minimum 3 threads penetration beyond steel structure.

Refer to Installation Instructions (**CRF010**) for anchor spacing and more details of the installation requirements.

**Design Pressure:**

Size	Design Pressures
72" x 72"	+50.0/-50.0 PSF
96" x 60"	+50.0/-50.0 PSF

Hermes F. Norero, P.E.

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