



BUILDING DROPS

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Certificate of Authorization: 29578

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Product Evaluation Report

of

Croft, LLC
Series 52 Twin Single Hung Window

for

Florida Product Approval

Report No. 3890

Current Florida Building Code

Method: 1 – A (Certificate method)
Category: Windows
Sub – Category: Single Hung

Product: *Series 52 Twin Single Hung Window*
Material: Vinyl
Product Dimensions: *See installation instructions, CRF016*

Prepared For:

Croft, LLC
P. O. Box 826
McComb, MS 39649

Prepared by:

Hermes F. Norero, P.E.

Florida Professional Engineer # 73778

Date: 10/05/2015

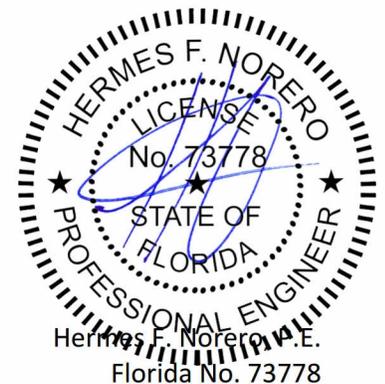
Contents:

Evaluation Report Pages 1 – 5

Digitally signed by Hermes F Norero, P.E.

Reason: I am approving this document

Date: 2015.10.05 13:33:37 -04'00'





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Date: 10/05/2015

Report No: 3890

Manufacturer: Croft, LLC

Product Category: Window

Product Sub-Category: Single Hung

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

Product Name: Series 52 Twin Single Hung Window

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 **CRF016**, 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.
4. Site conditions that deviate from the details of drawing **CRF016** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **CRF016** for size and design pressure limitations.



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Certification Agency: The manufacturer has demonstrated compliance of products in accordance with the Florida Building Code 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
- AAMA 450-10

Referenced Data:

1. Product Testing performed by **Architectural Testing, Inc. - Texas** (FBC Organization # TST1910)
Report #: E7650.01-801-44, Report Date: 05/28/15
Revision Date: 06/16/15
Report #: E4171.01-801-44, Report Date: 01/09/15
Report #: E8751.01-801-44, Report Date: 07/09/15
Report #: B6281.01-801-47, Report Date: 03/06/12
Revision Date: 04/26/12



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

Through Frame:

- A. 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 concrete or masonry substrate where 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 **#8 Self-Tapping Sheet Metal Screw** type steel stud anchors of sufficient length to achieve minimum 3 threads engagement beyond steel framing.

Through Mull Clip (Required for Through Frame Installations Only):

- E. 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.
- F. For concrete or masonry substrate where 1X, non-structural, wood bucking is employed, use **1/4" diameter ITW Tapcon** type concrete screw anchors of sufficient length to achieve minimum embedment of 1.75" into concrete or masonry.
- G. For concrete or masonry substrate where wood bucking is NOT employed, use **1/4" diameter ITW Tapcon** type concrete screw anchors of sufficient length to achieve minimum embedment of 1.75" into concrete or masonry.
- H. For steel stud substrate, use **#10 Self-Tapping Sheet Metal Screw** type steel stud anchors of sufficient length to achieve minimum 3 threads engagement beyond steel framing.

Through Fin:

- I. 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.
- J. For steel stud substrate, use **#8 Self-Tapping Sheet Metal Screw** type steel stud anchors of sufficient length to achieve minimum 3 threads engagement beyond steel framing.

Refer to Installation Instructions (**CRF016**) for anchor spacing and more details of the installation requirements.



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Design Pressure:

FRAME TYPE	OVERALL SIZE		DP RATING	MISSILE IMPACT RATING	MULL TYPE
	WIDTH	HEIGHT			
FLANGE	72"	72"	+/- 35 PSF	NON-IMPACT	COMBINATION
FLANGE	52"	72"	+/- 35 PSF	NON-IMPACT	N/A
FIN	72"	72"	+/- 35 PSF	NON-IMPACT	INTEGRAL
FIN	72"	72"	+/- 35 PSF	NON-IMPACT	COMBINATION
FIN	48"	84"	+/- 20 PSF	NON-IMPACT	N/A
FIN	36"	72"	+/- 35 PSF	NON-IMPACT	N/A
FIN	36"	72"	+/- 50 PSF	NON-IMPACT	N/A