



BUILDING DROPS

A Perfect Solution in Every Drop

Certificate of Authorization: 29578

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Product Evaluation Report *of*

Continental Glass Systems Inc.

Series 3800 Aluminum Window Wall System - SMI

for
Florida Product Approval

FL# FL17174

Report No. 3950

Current Florida Building Code

Method: 1 – A (Certificate)
Category: Windows
Sub – Category: Fixed

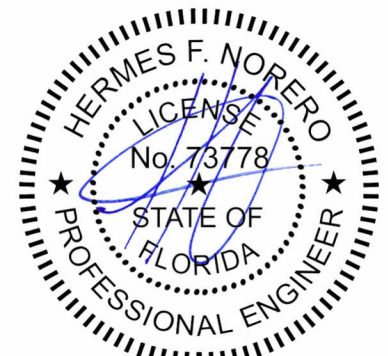
Product: *Series 3800 Aluminum Window Wall System - SMI*
Material: Aluminum
Product Dimensions: 180.0625" x 120"
144.0625" x 132"

Prepared For:
Continental Glass Systems Inc.
325 West 74 Place
Hialeah, FL 33014

Prepared by:
Hermes F. Norero, P.E.
Florida Professional Engineer # 73778
Date: 09/03/2015

Contents:

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Digitally signed by Hermes F Norero, P.E.
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Hermes F. Norero, P.E.
Florida No. 73778



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| | |
|------------------------------|--|
| Manufacturer: | Continental Glass Systems Inc. |
| Product Category: | Windows |
| Product Sub-Category: | Fixed |
| Compliance Method: | State Product Approval Method (1)(a) |
| Product Name: | Series 3800 Aluminum Window Wall System - SMI (Impact) 180.0625" x 120" 144.0625" x 132" |

Scope: This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for **Continental Glass Systems Inc.** 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 current Florida Building Code.

See Installation Instructions **CGS089**, 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 current 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 Chapter 16 of the current Florida Building Code and does not require an impact resistant covering for installations 30 feet or greater above grade.
4. Site conditions that deviate from the details of drawing **CGS089** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **CGS089** for size and design pressure limitations.

Hermes F. Norero, P.E.

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Quality Assurance: The manufacturer has demonstrated compliance of products in accordance with the Florida Building Code for manufacturing under a quality assurance program audited by an approved quality assurance entity 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 **Blackwater Testing Inc.**
(FBC Organization # TST10394)
Report #: BT-CON-14-006, Report Date: 06/24/14
2. Certification Agency
National Accreditation & Management Institute
(FBC Organization #: CER1773)
3. Material Certification
Miami-Dade County RER-Product Control Section NOA
SentryGlas Interlayer by E.I. DuPont De Nemours & Co., Inc.



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

Through Frame Installation:

- A. For wood substrates use **(1) #14 Wood Screw** type anchor per location of sufficient length to achieve a minimum embedment of 1.50" into the wood substrate.
- B. For concrete or masonry substrate where one by (1X), non-structural, wood bucking is employed, use **(1) 5/16" diameter Elco UltraCon** concrete screw anchor per location of sufficient length to achieve minimum embedment of 1.75" into concrete or masonry.
- C. For concrete or masonry substrate where wood bucking is NOT employed, use **(1) 5/16" diameter Elco UltraCon** type concrete screw anchors per location of sufficient length to achieve minimum embedment of 1.75" into concrete or masonry.
- D. For steel substrate, use **(1) 1/4" Teks Select Screw** anchor per location of sufficient length to achieve minimum three threads of penetration beyond steel structure.
- E. For aluminum substrate, use **(1) 1/4" Teks Select Screw** anchor per location of sufficient length to achieve minimum three threads of penetration beyond aluminum structure.

Refer to Installation Instructions (**CGS089**) for anchor spacing and more details of the installation requirements.

Design Pressure:

| DESIGN PRESSURE RATING | | | |
|------------------------|---------------|-----------------|---|
| PANEL SIZE | REINFORCEMENT | DESIGN PRESSURE | MISSILE IMPACT RATING |
| 61 3/8" x 120" | ALUMINUM | +/-180.0 PSF | SMALL MISSILE IMPACT *FOR INSTALLATIONS 30 FT OR ABOVE |
| | ALUMINUM | +/-150.0 PSF | |
| | NONE | +/-120.0 PSF | |
| 48 7/8" x 132" | ALUMINUM | +/-150.0 PSF | |

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