



BUILDING DROPS

A Perfect Solution in Every Drop

Certificate of Authorization: 29578

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Product Evaluation Report

of

Eastern Metal Supply

**28 Gauge Storm Panel
Wind Zone 3 Impact Rated**

for

Florida Product Approval

FL# FL22270

Report No. 5155

6th Edition (2017) Florida Building Code

Method:	1 – D (Engineering Evaluation)
Category:	Shutters
Sub – Category:	Storm Panels
Product:	28 Gauge Steel Storm Panel
Material:	Galvanized Steel
Product Dimensions:	See Installation Instructions, EMS005

Prepared for:

**Eastern Metal Supply
4268 Westroads Drive
West Palm Beach, FL 33407**

Prepared by:

Hermes F. Norero, P.E.

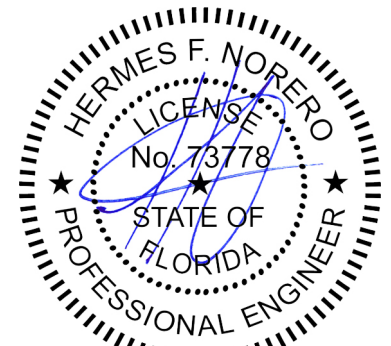
Florida Professional Engineer # 73778

Date: 10/03/2017

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



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FL#: **FL22270**
Date: 10/03/2017
Report No: 5155

Manufacturer: Eastern Metal Supply

Product Category: Shutters

Product Sub-Category: Storm Panels

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

Product Name: 28 Gauge Storm Panel
Wind Zone 3 Impact Rated

Scope: This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for **Eastern Metal Supply** based on Method 1d of the Florida Product Approval System, Florida 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 **EMS005**, signed and sealed by Hermes F. Norero (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 meets all requirements for impact resistant coverings in Wind Zone 3 or less when installed in compliance with requirements of **EMS005**.
4. Site conditions that deviate from the details of **EMS005** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **EMS005** for size and design pressure limitations.

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Quality Assurance: The manufacturer has demonstrated compliance of products in accordance with the Florida Building Code for manufacturing under an approved quality assurance program audited through **National Accreditation and Management Institute** (FBC Organization #: QUA1789).

Performance Standards: The product described herein has been evaluated per:

- ASTM E330-02
- ASTM E1886-02
- ASTM E1996-05

Referenced Data:

1. Product Testing performed by **Blackwater Testing Inc** (FBC Organization # TST10394)
Report #: BT-EMS-16-001 Report Date: 08/23/2016
Signed and sealed by Constantin Bortes, P.E. FL# 77915
2. Quality Assurance
National Accreditation and Management Institute
(FBC Organization #: QUA1789)

Installation: Refer to Installation Instructions (**EMS005**) for anchor spacing and more details of the installation requirements.

Design Pressure: Refer to Installation Instructions (**EMS005**) for design pressures based on size and configuration.

Equivalence of Test Standards:

Various test standards have been evaluated for differences in test methodology, if any, between tested editions of the test standards listed below and those editions referenced in the current Florida Building Code. Windsor Windows and Doors has tested their products to the following test standard edition(s):

- 1) ASTM E 1996-03

Chapter 35 of the current Florida Building Code references the following editions of the above mentioned test standards:

- 1) ASTM E 1996-05

After review of the above mentioned referenced standards and editions, it has been found that the results and tests carried out meet the requirements for compliance. All referenced standards have been found to be equivalent.

Hermes F. Norero, P.E.
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