



R W Building Consultants, Inc.

Consulting and Engineering Services for the Building Industry

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Florida Board of Professional Engineers Certificate of Authorization No. 9813

Product Evaluation Report

Report No.: FL-10106.2

Date: May 29, 2012

Product Category	Sub Category	Manufacturer	Product Name
Shutters	Storm Panels	Elite Storm Systems 700 S. John Rodes Blvd. Melbourne, FL 32904 Phone 321.690.1976	The Ultimate Storm Panel Galvanized Steel

Scope: This is a Product Evaluation report issued by R W Building Consultants, Inc. and Lyndon F. Schmidt, P.E. (System ID # 1998) for Elite Storm Systems based on Rule Chapter No. 9N-3, Method 1D of the State of Florida Product Approval, Department of Business & Professional Regulation.

RW Building Consultants and Lyndon F. Schmidt, P.E. do 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.

Limitations:

- This system has been tested and evaluated as a large missile impact protective system in accordance with the requirements of the 2010 Florida Building Code excluding the High Velocity Hurricane Zone. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996 and Section 1609.1.2.4 of the FBC.
- Positive and negative design pressures to be used with these drawings shall be determined by others for specific sites in accordance with the local governing code.
- The system detailed herein is generic and does not provide information for a specific site. If site conditions deviate from the conditions detailed herein, a licensed engineer or registered architect shall prepare site specific documents to be used in conjunction with this document.
- Product markings shall be rolled into each panel with spacing in between marking no greater than 36" and shall be labeled as follows:
Elite Storm Systems
Rockledge, FL
FBC Approval FL#10106.2
ASTM E330-02
ASTM E 1886/1996-02 Missile Level D
- Galvanized steel storm panels shall be ASTM A653 SS Grade 80, 80 ksi min. yield strength, tested thickness 0.022".
- All extrusions shall be 6063-T6 aluminum alloy, unless noted otherwise.
- All bolts & washers shall be zinc coated steel, galvanized steel, stainless steel, or 2024-T4 aluminum alloy with a minimum tensile yield strength of 33 ksi.
- Permit holder shall verify the adequacy of the existing structure to withstand new superimposed loads.
- Storm panels have been designed and tested to the maximum spans and loads shown on these drawings.
- Top & bottom details shown may be interchanged as field conditions dictate. Panels may be mounted horizontally where applicable.
- Panel attachment to studded angle (item #5) mounting hardware is at 12-1/2" o.c. maximum. All other panel attachments to mounting hardware are at 6-1/4" o.c. maximum. Direct mount of panel to structure is at 6-1/4" o.c. maximum.
- See drawing FL-10106.2 for size and design pressure limitations.

Supporting Documents:

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| 1. Test Report No.
TEL 07-02440273
TEL 07-02440273-IC | Test Standard
ASTM E 330-02
ASTM E 1886/1996-02 | Testing Laboratory
Testing Evaluation Lab., Inc.
Testing Evaluation Lab., Inc. | Signed by
Wendell W. Haney, P.E.
Wendell W. Haney, P.E. |
| 2. Drawing No.
No. FL 10106.2 | Prepared by
RW Building Consultants, Inc. (CA #9813) | | Signed & Sealed by
Lyndon F. Schmidt, P.E. |
| 3. Calculations
Anchoring | Prepared by
RW Building Consultants, Inc. (CA #9813) | | Signed & Sealed by
Lyndon F. Schmidt, P.E. |
| 4. Quality Assurance
Certificate of Participation issued by National Accreditation and Management Institute, certifying that Elite Storm Systems is manufacturing products within a quality assurance program that complies with ISO/IEC 17020 and Guide 53. | | | |

Lyndon F. Schmidt, P.E.
FL PE No. 43409
5/31/2012