

EVALUATION REPORT

Title: Sliding Window
Report #: SM2020-005R1
Manufacturer: Sun Metals Systems, Inc.
5008 Tampa West Blvd
Tampa, FL 33634
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VanHorn Engineering, LLC
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Mason, OH 45040
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Date: December 10, 2020

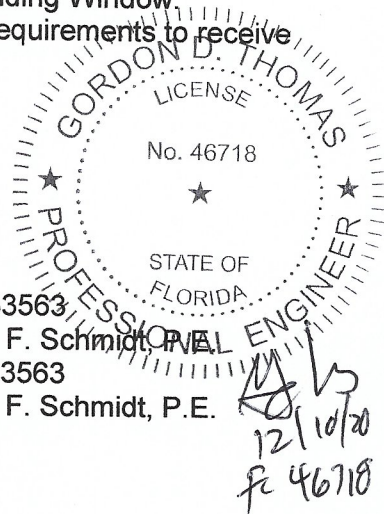
I. OVERVIEW / SCOPE

The following evaluation report provides a review of a revised FBC application for a Sliding Window. The current configuration is listed under FL 13510 and this evaluation will review the requirements to receive approval for the 7th Edition (2020) FBC.

II. REFERENCE MATERIAL

The following reference materials were provided in support of the product evaluation

1. Florida Product Approval FL 13510
2. Sun Metals Dwgs FL-13510.3, Dated 9/21/20, 5 sheets
3. Testing Evaluation Laboratories, 2002 Wood Court Suite 1, Plant City, FL 33563
Report TEL 01500220, Dated Feb 17, 2010, Signed and Sealed by Lyndon F. Schmidt, P.E.
4. Testing Evaluation Laboratories, 2002 Wood Court Suite 1, Plant City, FL 33563
Report TEL 01500220, Dated Feb 17, 2010, Signed and Sealed by Lyndon F. Schmidt, P.E.
5. PE Services, LLC, Evaluation Report FL 13510.3, Signed 10/21/13.



III. EVALUATION CRITERIA & LIMITATIONS OF USE

The product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code structural requirements excluding the "High Velocity Hurricane Zone". The drawings cited below are an explicit part of this evaluation report. The text of this report cannot address all design details (fastener size, spacing) but relies upon the illustrations of these drawings.

All testing frame specimens listed in test reports referenced above were conducted as follows:

- AAMA/WDMA/CSA 101/I.S.2/A440-05 (Standard Specification for Windows, Doors and Skylight Units).
- ASTM 1886-05 (Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials)
- ASTM 1996-05 (Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes)
- Product listed meets the deflection recovery requirements
- Product listed meets static pressure air infiltration
- Product listed meets the large and small missile impact ratings

ASTM E1886-05 is not in the 2020 Florida Building Code, it is an equivalent standard to the -2012 revision of the standard. Therefore, products tested according to E1886-05 are in compliance with the 2020 Florida Building Code.

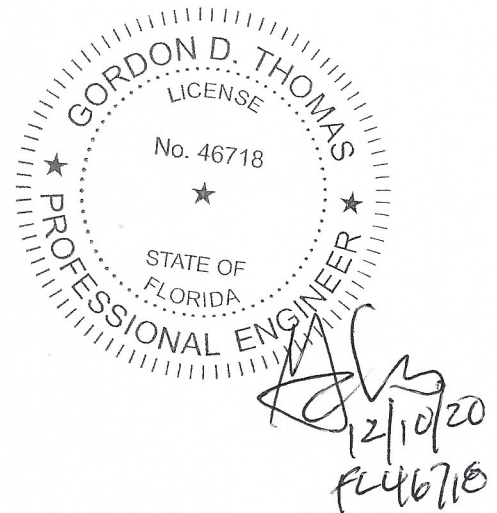
ASTM E1996-05 is also not in the 2020 Florida Building Code, it is an equivalent standard to the -2017 revision of the standard. Therefore, products tested according to E1996-05 are in compliance with the 2020 Florida Building Code.

Finally, AAMA/WDMA/CSA/ 101/I.S.2/A440-2005 is also not in the 2020 Florida Building Code, it is an equivalent standard to the -2011 revision of the standard. Therefore, products tested according to AAMA/WDMA/CSA/ 101/I.S.2/A440-2005 are in compliance with the 2020 Florida Building Code.

The following sliding windows were reviewed and approved:

Product Name	Product Type	Size	Design Pressures	Impact Rating	Dwg
Series 400SW	Aluminum Horizontal Sliding Window	72" x 60"	+/- 65 PSF	Large Missile	FL-13510.3

The jamb and sill anchors were confirmed via calculations for both concrete and steel mounting. Steel anchors were checked against tested quantities.



Certification of Independence of Evaluation Entity

I hereby certify that (1) I have no financial interest in Sun Metals Systems, LLC; (2) I am an independent licensed Professional Engineer in the State of Florida and; (3) I comply with the criteria of independence as stated in 9B-72.110 (3), F.A.C. and 9B-72.110(4), F.A.C.