

## EVALUATION REPORT

**Title:** Window Wall  
**Report #:** SM2023-003R1  
**Manufacturer:** Sun Metals Systems, Inc.  
5008 Tampa West Blvd  
Tampa, FL 33634  
**Technical Contact:** Eric VanHorn, P.E.  
VanHorn Engineering, LLC  
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Florida # 46718  
**Date:** April 6, 2023  
May 30, 2024 - revised

### I. OVERVIEW / SCOPE

The following evaluation report provides a review of a revised FBC application to add new configurations for a Window Wall. The current configuration is listed under FL 21123 and this evaluation will review the requirements to receive approval for the 8<sup>th</sup> Edition (2023) FBC.

### II. REFERENCE MATERIAL

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

1. Florida Product Approval FL 21123.
2. Sun Metals Dwgs FL-21123.5, Dated 5/20/24.
3. Architectural Testing Inc., Test Report # F1570.01-401-18, Dated 8/26/16.
4. Intertek - Architectural Testing Inc., 2658 Electronics Way, West Palm Beach FL 33407  
Test Report # M3921.03-450-18-r0. Dated 12/6/22, Signed and Sealed by Vinu Abraham, P.E.
5. Intertek - Architectural Testing Inc., 2658 Electronics Way, West Palm Beach FL 33407  
Test Report # M3921.04-450-18-r0. Dated 12/7/22, Signed and Sealed by Vinu Abraham, P.E.

### III. EVALUATION CRITERIA & LIMITATIONS OF USE

The product has been evaluated and is in compliance with the 8<sup>th</sup> Edition (2023) Florida Building Code structural requirements including the "High Velocity Hurricane Zone". In addition, the product has been evaluated to be in compliance with AAMA 501-15. 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:

TAS 201-94 (Impact Test Procedures)

TAS 202-94 (Uniform Static Air Pressure)

TAS 203-94 (Criteria for Testing Products Subject to Cyclic Wind Pressure Loading).

All products met the deflection recovery requirements.

All product met large and small missile impact ratings.

All product met static pressure air infiltration and water penetration.

The following window walls were reviewed and approved:

| Product Name | Product Type                  | Size        | Design Pressures          | Impact Rating | Dwg        |
|--------------|-------------------------------|-------------|---------------------------|---------------|------------|
| Series 1050T | Captured Aluminum Window Wall | Ref drawing | +/- 140 PSF<br>+/- 60 PSF | Large Missile | FL-21123.5 |

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.