

## EVALUATION REPORT

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|----------------------|---------------------------------------------------------------------|---------------------------|--------------------------|
| <b>Title:</b>        | Terrace Door                                                        | <b>Technical Contact:</b> | Eric VanHorn, P.E.       |
| <b>Report #:</b>     | SM2024-001R2                                                        |                           | VanHorn Engineering, LLC |
| <b>Manufacturer:</b> | Sun Metals Systems, Inc.<br>5008 Tampa West Blvd<br>Tampa, FL 33634 |                           |                          |
| <b>Prepared by:</b>  | Gordon Thomas, P.E.<br>Mason, OH 45040<br>Florida # 46718           | <b>Date:</b>              | March 20, 2024           |

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### I. OVERVIEW / SCOPE

The following evaluation report provides a review of a new application for a aluminum glazed outswing side hinged terrace door with ADA threshold and lever activated mortise lock. This evaluation will review the requirements to receive approval for the 8<sup>th</sup> Edition (2023) Florida Building Code.

### II. REFERENCE MATERIAL

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

1. Sun Metals Dwg FL-46489.1, 6 sheets, dated 3/18/24.
2. PRI Construction Materials Technologies, LLC., 6412 Badger Drive, Tampa, FL 33610.  
Project Report # 1898T0002, Dated September 21, 2021.

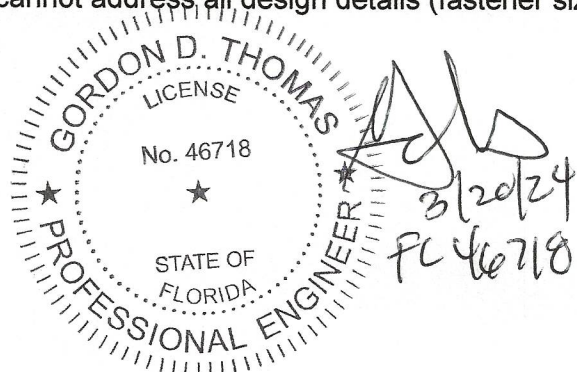
### III. DOOR EVALUATION

All door testing listed in test reports referenced below were conducted per ASTM E330 (Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference). The product meets the performance levels specified in AAMA/WDMA/CSA 101/I.S.2/A440-17 for air leakage resistance.

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

- ASTM E330-14, (Uniform Static Air Pressure)
- ASTM E283-04 (2012), (Air Leakage)
- ASTM E331-00 (2016), (Water Penetration)
- Products listed meet the deflection recovery requirements.
- Products listed meet static pressure air infiltration.

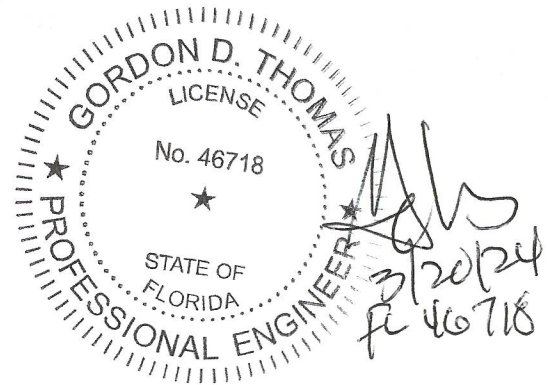
The product has been evaluated and is in compliance with the 8<sup>th</sup> Edition (2023) Florida Building Code structural requirements excluding the "High Velocity Hurricane Zone". The drawings cited below are an explicit part of this evaluation report. The text of this report cannot address all design details (fastener size, spacing) but relies upon the illustrations of these drawings.



The following doors were reviewed and approved:

| Product Name | Product Type | Frame Size<br>(H x W) | Design<br>Pressures | Impact Rating | Dwg              |
|--------------|--------------|-----------------------|---------------------|---------------|------------------|
| Sundoor 4000 | Terrace Door | 96" x 48"             | +/- 65              | Non-Impact    | FL-46489.1 Rev 1 |

The product anchors were confirmed via calculations for concrete, wood and steel mounting. Wood screws were checked against tested quantities.



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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.