

Product Evaluation Report

Rule 61G20-3 F.A.C. | Report No. 1701, Rev. 3 | Project No. 422-1202 | 9/22/23 | Page 1 of 2

Manufacturer

AES Sunoptics, Inc.
6250 27th Street
Sacramento, CA 95822

Product Series, Model and/or Description

SunOptics Prismatic Skylights – Model 800MD
Signature Curb Mounted Skylight

Code: Current Edition of the Florida Building Code including the 8th Edition (2023) Florida Building Code

Compliance Methods: Product Approval Rule 61G20-3.005(1)(d) – Product Evaluation Report by a Licensed Professional Engineer

Product Category: Sky Lights

Product Sub-Category: Skylight

Product Installation Instructions:

- Drawing No. SUN0002, Rev. C, dated 9/22/23, SunOptics Prismatic Skylights – Model 800MD Signature Curb Mounted Skylight, Installation Anchorage Details, signed and sealed by Robert J. Amoruso, P.E.

Engineering Analysis: The following engineering and/or rational analysis/calculations have been performed.

- Anchorage and product verification have been substantiated by calculation (PTC Report. No. 1700) prepared, signed, and sealed by Robert J. Amoruso, P.E. in accordance with the current edition of the Florida Building Code.

Performance Testing Standards:

- TAS201-94, Impact Test Procedures.
- TAS202-94, Criteria for Testing Impact & Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure.
- TAS203-94, Criteria for Testing Products Subjected to Cyclic Wind Pressure Loading.

Product Testing:

- Intertek/Architectural Testing, Inc. Test Report No. E9429.01-301-18, dated 8/20/15, *TAS 201-94, TAS 202-94 and TAS 203-94 testing for SERIES/MODEL: 800MD Signature Double Dome, PRODUCT TYPE: Curb-Mount Aluminum Frame Plastic Glazed Fixed Skylight.*
 - Margin of Safety = 3 applied for positive load and 2 for negative load to Structural Design Pressure per FBC and MD FAQ (<http://www.miamidade.gov/building/products/skylights.asp>).

Material Certifications:

- Glazing
 - EXTERIOR 0.230" THICK BEFORE FORMING PLASKOLITE, LLC TUFFAK POLYCARBONATE SHEETS PER LATEST MD NOTICE OF ACCEPTANCE (NOA) found [here](#).
 - INTERIOR 0.120" THICK BEFORE FORMING PLASKOLITE, LLC OPTIX ACRYLIC SHEETS PER LATEST MD NOTICE OF ACCEPTANCE (NOA) found [here](#).
- Foam Insulation
 - Insulfoam Expanded Polystyrene Preformed Block Type I Insulation by Insulfoam, a div. of Carlisle Construction Materials, LLC per latest MD Notice of Acceptance (NOA) found [here](#).
 - FLAME SPREAD INDEX, ASTM E-84, FSI = 55 < 75 required by the current edition of the Florida Building Code including HVHZ requirements.



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321-690-1788 | FBPE Certification of Authorization No. 25935

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- SMOKE DEVELOPMENT INDEX, ASTM E-84, SDI = $450 \leq 450$ required by the current edition of the Florida Building Code including HVHZ requirements.
- SELF IGNITION TEMPERATURE, ASTM D-1929, SIT = $950^{\circ}\text{F} > 650^{\circ}\text{F}$ required by the current edition of the Florida Building Code including HVHZ requirements.

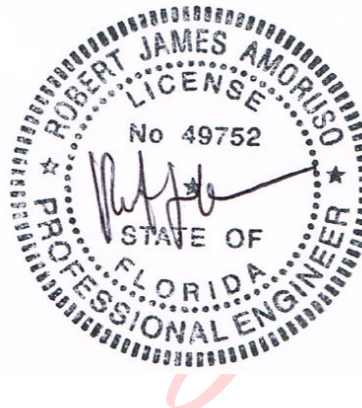
Limitations & Conditions of Use:

- This product has been evaluated for use inside the HVHZ (High Velocity Hurricane Zone)
- This product is Impact Resistance. Therefore, a protective impact-rated device (i.e., shutter(s)) is not required.
- Refer to Product Installation Instructions noted above for:
 - Maximum allowable wind loads at related maximum allowable size(s).
 - Overall dimensions and material/grade of main product components, accessories, etc.
 - Illustrated diagrams of the attachment of the product to the structure.
 - Anchor type(s), size(s), substrate(s), embedment, edge distance, and spacing/locations.
- Site wind pressures shall be determined by a licensed professional engineer in accordance with the current edition of the Florida Building Code (and/or ASCE 7 as referenced in the current edition of the Florida Building Code) for components and cladding based on allowable stress design.
- Site conditions not covered in this product evaluation document are subject to additional engineering analysis by a licensed professional engineer or registered architect as required by the authority having jurisdiction.
- Adequacy of the existing structural substrates as a main wind force resisting system capable of withstanding and transferring applied product loads to the foundation is the responsibility of the licensed professional engineer or registered architect acting as the design professional of record for the project of installation.

Certificate of Independence per Product Approval Rule 61G20-3.009

PTC Product Design Group, LLC and Robert J. Amoruso, P.E. does not have, nor will acquire, any financial interest in the company manufacturing or distributing product(s) covered by this Product Evaluation Report.

PTC Product Design Group, LLC and Robert J. Amoruso, P.E. do not have, nor will acquire any financial interest in any other entity involved in the approval process or testing of the product(s) covered by this Product Evaluation Report.



Digitally signed
by Robert J
Amoruso
Date:
2023.10.16
13:36:49 -04'00'

Evaluated by:
Robert J. Amoruso, P.E.
FL PE License No. 49752

