

Product Evaluation Report

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Manufacturer

Maxim Industries, Inc
1630 Terre Colony Court
Dallas, TX 75212

Product Series, Model and/or Description

Series "DCM" Dade Curb Mount Skylight
Series "DSF" Dade Self-Flashing Skylight

Code: Current Edition of the Florida Building Code including the 6th Edition (2017) Florida Building Code

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

Product Installation Instructions:

- MAX0001, Rev. C, dated 3/2/18, signed and sealed by Robert J. Amoruso, Maxim Industries, Inc. Series "DSF" Dade Self-Flashing Skylight, Installation Anchorage Details
- MAX0002, Rev. C, dated 3/2/18, signed and sealed by Robert J. Amoruso, Maxim Industries, Inc. Series "DCM" Dade Curb Mount Skylight, Installation Anchorage Details

Product Testing:

- Architectural Testing Inc. Test Report No. 01-43381.01, dated 01/29/03, signed and sealed by Steve Urich, P.E., testing to TAS 201-94, TAS 202-94 and TAS 203-94

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

- Anchorage and product verification has been substantiated by calculation (PTC Report. No. 1591, Rev. 0) prepared, signed and sealed by Robert J. Amoruso, P.E. in accordance with the current edition of the Florida Building Code.
- Design Pressure Evaluation/Product Evaluation
 - Drawing No. MAX0001 & MAX0002
 - High Velocity Hurricane Zone (HVHZ): YES
 - Outside High Velocity Hurricane Zone (HVHZ): YES
 - Impact Resistant: YES
 - Skylight domes using Covestro LLC Makrolon Polycarbonate Panels (Makrolon® (formerly Hyzod®) is a trade name for Covestro (formerly Bayer Material Sciences).
 - Architectural Testing Inc. Test Report No. 01-43381.01, dated 01/29/03, signed and sealed by Steve Urich, P.E.
 - Design Pressure Evaluation based on testing
 - Margin of Safety = positive loading 3 and negative loading 2 for plastic skylight domes applied to Structural Design Pressure per MD FAQ (<http://www.miamidade.gov/building/products/skylights.asp>) and meeting/exceeding current FBC requirements.
 - +180/-120 psf Structural Design Pressure
 - $180/3 = +60$ psf & $120/2 = -60$ psf DP
 - +9 psf Water Test Pressure equates to $6.06/.15 = +60$ psf DP
 - Cyclic Test Pressure per TAS 203 was +/-60 psf
 - Design Pressure = +/-60 psf
 - Performance and Testing Standards
 - TAS 201-94
 - TAS 202-04
 - TAS 203-94



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Material Certifications/Component Approvals:

- Polycarbonate Panel Dome Material: See current Miami-Dade Notice of Acceptance (NOA) for component approval for the following approved material.
 - Covestro LLC Makrolon Polycarbonate Panels NOA can be found [here](#).

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 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 7-10 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.

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

