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5000 Unit Skylight | Product Data Sheet

Frame	Glazing Make-Up	U-Factor	SHGC	VT
5000	White Impact Modified Acrylic Dome over 25mm Clear Polycarb. MWS	0.44	0.29	0.29

Overview **General** 5000 unit skylight series is made up of a welded aluminum interior frame with condensation gutter and a fully welded aluminum exterior perimeter cap. Glazing is captured between these two elements and sealed with adhesive glazing tape. Weep holes direct condensation collected in the gutter system to the exterior of the skylight curb.

Thermal Performance **NFRC Rated** Certified by National Accreditation & Management Institute and rated by the National Fenestration Rating Council (NFRC) for thermal performance. Ratings are as shown above per glazing make-up.

Structural Performance **Overview** Certified by National Accreditation & Management Institute to North American Fenestration Standard/Specification (NAFS) [AAMA/WDMA/CSA 101/I.S.2/A440] for air and water penetration and structural loading - as required by the International Building Code, section 2405.5 Unit Skylights.

- Structural Design**
- Design Pressure (Download): 60 psf
- Water Penetration**
- Negative Design (Uplift): 45 psf
 - Water Resistance: 6.0 psf

Air Infiltration Air infiltration per. Air leakage shall not exceed 0.06 cfm/sq. ft. of assembly surface when tested with a pressure of 6.24 psf.

General Framing shall be installed and glazed by experienced workmen in accordance with the approved shop drawings, manufacturer's instructions and glazing standards.

Aluminum Aluminum extruded components shall be alloy 6063-T5 or 6063-T6, of sufficient thickness for this application, and as required per structural calculations; ASTM B 221. Aluminum sheet and plate shall be alloy 5052-H32 per ASTM B 209.

- Acrylic Dome Glazing**
- Impact modified acrylic resin
 - ICC-ES listings as CC2 approved plastic complying with Section 2606.4 of the IBC
 - ANSI Z97.1 Safety Glazing Requirements
 - Underwriters Laboratories (UL) listings as UL 94HB and UL746 Compliant
 - Miami-Dade County Product Notice of Acceptance-Plastics
 - ASTM D-4802 B-1 Plastics
 - Plaskolite Optix White Acrylic Sheet has a measured haze value greater than 90%.

Primary Materials & Installation

- Polycarbonate Multi-wall Sheet**
- Fire rating: Class A per ASTM E-84. Class CCI per ASTM D-635. Maximum Flame Spread/Smoke Development: 0/85
 - Impact resistance, when tested in accordance with ASTM D 5420 (Drop Dart): >72 foot-pounds (271.16 N m) for 1/4-inch (6 mm) thick material.
 - Weather resistance, when tested for 1500 hours in accordance with ASTM G 53 and QUV 313B
 - Coating integrity: Intact after testing period.
 - Compliant to IBC 2405.2 and 2405.3 Screening.
 - Compliant to UFC 4-010-01 criteria for Conventional Construction Standoff Distance per ASTM F 2248

Finishes **Mill** The natural appearance of aluminum as it comes from the rolling mill

Primary Materials	Compatible Sealants	Neutral-Cure silicone is required. Sealants containing Acetoxy (often listed as a base element in chemicals such as methyltriacetoxysilane) should NOT be used with IG units.
Cleaning and Maintenance	General	Periodic cleaning and rinsing of all surfaces warm water with mild soap, using a dish soap such as Joy® or Palmolive® is recommended. Warm water is important to prevent thermal shock and glass breakage. Avoid cleaning in the hot sun.
Warranty	Summary	Warranted against manufacturer's defects for a period of five (5) years from date of purchase.
Cleaning and Maintenance	Stipulations	Replacement units will be remanufactured in the same size and type as the original units only and does not include removal of defective unit or installation of replacement unit.