

Quasar Prismatic

Specifications

Manufacturer: Bristolite Daylighting Systems, Santa Ana, CA 92707, tele; 714.540.8950; fax; 714.540.5415; web; www.bristolite.com, model Quasar Prismatic - 6072-ALT-CM-2-CCPM/WTPM-MF; NO SUBSTITUTIONS ALLOWED.

General description: A fixed, 60 inch X 72 inch, unit skylight double prismatic glazed with a thermally broken aluminum frame and an aluminum frame cap.

Skylight must be tested to: NFRC and AAMA/WDMA/CSA 101/I.S.2/A440-08 and AAMA/WDMA/CSA 101/I.S.2/A440-05.

All performance criteria must be supported by test reports from an accredited, third party test laboratory.

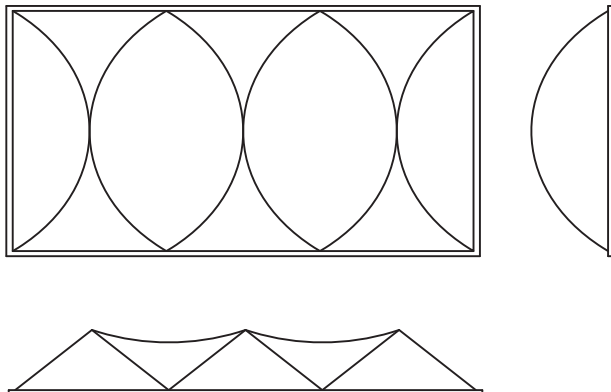
Optical performance: Must have a minimum of 70% VLT (Visible Light Transmission) with 100% Haze/Diffusion.

Thermal performances: Must have a maximum 0.50 SHGC (Solar Heat Gain Coefficient) and a maximum 0.65 U Factor and 1.54 R Value.

Mechanical performance: Must be USA – OSHA compliant.

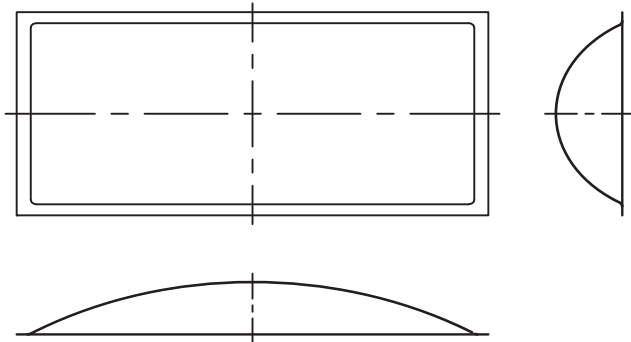
Glazing: The outer dome must be formed from Plaskolite, flawless, K12 prism pattern, 100% impact modified, clear, Duraplex prismatic and must be a minimum thickness of 0.177 inches. The outer dome must be of a similar contour as shown in illustration 1.0 below and may not have a rib shaped design with tight radii to eliminate shadowing and the resultant restriction of light into the interior of the building. There must be a minimum 3.5 inch air space between the outer dome and inner dome to produce the low solar heat gain and excellent insulating values in the preceding performance section of this specification. To achieve maximum light transmission to the interior of the building the inside curb dimension of the skylight may not be less than 60 inches by 72 inches.

Illustration 1.0 Triarch Shape Outer Dome



The inner dome must be made from Plaskolite, flawless, K12 prism pattern, 25% impact modified, white, Duraplex prismatic and must be a minimum thickness of 0.118 inches. The inner dome must be formed in the contour of a plain bubble shape as shown in illustration 2.0 below.

Illustration 2.0. Bubble Shape Inner Dome



The dome material must be tested for and PASS: A) UBC-26-7 and ASTM D635-06 Rate-of-Burn achieving a minimum CC2 rating. B) ASTM D-2843-99 Smoke Density Test C) ASTM D1929-96 Ignition Temperature Test (Self Ignition).

Frame: The frame must be manufactured with 6063-T6 architectural grade aluminum. The frame dimensions must be a minimum of 0.075 inch thick, 2.25 inches in depth on the horizontal leg and 2.0 inches in depth on the vertical leg. The Frame must have an AAMA compliant thermal break whereas the aluminum on the outside of the frame is completely separated from the aluminum on the inside of the frame. The bridge between the exterior and the interior of the frame must be a long life, polyurethane thermal barrier. Styrofoam and PVC insulation is not an acceptable substitute for an AAMA compliant thermal break. The frame must be squared (90 degree corners) and flat (on one plane) by the insertion of corner stabilizers prior to full heli-arc welding. The frame must have a full perimeter condensation trough measuring a minimum of .0625 inches wide and 0.375 inches deep with a minimum of six non-clog weep holes routed to the outside of the frame.

Frame cap: The frame cap must be manufactured with 6063-T6 architectural grade aluminum. Frame cap dimensions must be a minimum of 0.050 inch thick, 1.75 inches in depth on the horizontal leg and 2.0 inches in depth on the vertical leg. The frame cap must be squared and flat prior to full heli-arc welding.

Sealant: The skylight must be sealed with Monsanto UL Listed, Santoprene Thermoplastic.

Packaged Skid: Model 6072 ALT CM. Maximum 21 units high

Shipping-Transit: Skylights arrive on Open Flat Bed Simi Trailer (48' ft long typical) 48' Flatbed will accommodate – 8 skids, 21 units high.
Total: 168 units per truck.

From Truck to Roof: Skylights remain packaged in the skid, crane straps are positioned to cradle skylight skid then hoisted to the roof. Crane places the skids strategically throughout roof area for final distribution and mounting over skylight openings.

Curb Minimum Requirements: Manufactured Steel Curbs that are provided by others to accept our Curb Mount Skylights should be of minimum 18 gauge wall thickness, rectangular 1 ½” in width to include 2” roof flange, 8” minimum height.

Curb / Skylight – Seal: Foam Weather Stripping (1/4“x 1/2” wide) resistant to mold and mildew is then applied to the top of the pre-manufactured steel curb before positioning skylight on top.

Anchoring: With the Skylight centered and flat on to curb, use #12 sheet metal or tech screw – 1 ½” in length minimum to anchor (applied Fasteners to all (26) predrilled anchor holes).

End