**BRISTOL-CUTLINE GREEN BUILDING TECHNOLOGIES**

**Key Attributes:**
- Industry Standard
- Greater Strength & Impact Resistance than Acrylic
- Best Strength & Leak-Proof
- Best Light Transmission
- Best Insulator
- Low Solar Heat Gain & Ultraviolet Light
- Low Solar Heat Gain & Ultraviolet Light & Excellent Insulation
- Most Energy Efficient

**Energy Star**
- Quasar
- Quasar Low-E
- Quasar Reach
- Solar Breeze

**Solar Power Efficiency**
- Infrared & UV Blocking Technology
- Infrared & UV Blocking Technology
- Infrared & UV Blocking Technology

**Material Types**
- Acrylic
- Copolyester
- Polycarbonate
- Fiberglass
- SGF

**Performance Characteristics**
- OSHA CFR Compliant
- Total Load Test: 400 lbs.
- Hall Resistance: Moderate
- Rate of Burning: CC2
- Ignition Temperature: Pass
- Warranty: 5 Years

**Environmental Compliance**
- OSHA CFR Compliant
- UBC-26-7/ASTM D635-06
- Smoke Density ASTM D2843-99
- Ignition Temperature (Self-Ignition) ASTM D1929-96
- Radiant Heat Test: Pass
- Weatherability: 5 Years

All skylights above are available with either zinc plated steel or architectural grade 6063-T5 aluminum frames. Frame types include, curb mount, self-flashing (curb mount with an integral curb), or curb mount with a separate structural curb. All frames are designed with condensation guards and non-clog weep holes. Frame options include, AAMA compliant thermal breaks, 1" polycarbonate insulation, double wall, wood rafter, brick or stone, and custom outside/inside curb, curb height and flange dimensions. All glazings are available in alternative dome shapes including; bubble, radial tr ach, pyramid and double hip except Energy Star Fibrelite. Performance information obtained by testing glazing materials, dome sets and skylights to MRCI, NFRC, IC, AAMA, UL, FM, IES and ASTM standards by Kingspan Light + Air. Material suppliers and independent third party laboratories. OSHA compliance and test results are for specific outer dome thicknesses.
Structural polycarbonate panels filled with Nano Insulgel/Lumira silica aerogel can be fitted into any frame type and used in combination with any secondary glazing. Silica aerogels, also known as "blue smoke" or "frozen smoke," are one of the lightest solid materials known and function as transparent super insulators. The nano pore structure sized material possess excellent light transmission, thermal & sound insulation properties. It is environmentally friendly, waterproof, fireproof, and has no toxicity to humans.

Quasar LowE is the brilliant combination of our proprietary Coollite spectrally selective infrared and ultraviolet light blocking glazing and our proprietary super insulating Nano Insulgel/Lumira glazing. Quasar Low-E solar heat blocker outer glazing rejects up to 85% of infrared and 99% of ultraviolet light while still providing an abundance of natural diffused light. Quasar LowE super insulating inner glazing has 6 X the insulating value of a traditional skylight.

Meets the Following Energy Codes:

Meets the Following Energy Codes:
Building Technologies!

Quasar Prismatic
Maximum Diffused Light, Energy Savings & Value

Quasar uses a K12 Prism pattern for maximum optic properties such as 70 to 82% diffused VLT as well as the highest quality Duraplex resins and UV blockers for superior mechanical and thermal properties, and longevity.

Monsanto's UL Listed, Engineered Thermoplastic Santoprene provides 25 plus years of positive sealing.

The key to Quasar's brilliance and uniformity of highly diffused light is its use of the highest quality prismatic glazing material available in the industry and our proprietary computer generated Radial Triarch thermoformed dome shape. Every Quasar product is built exclusively with Plaskolite's flawless Duraplex Prismatic with a K12 prism pattern. The impact modified outer dome is housed in a fully dimensioned, heavy duty 0.075" thick architectural grade 6063-T5 aluminum frame with an AAMA compliant "poured and debridged" thermal break and sealed by Monsanto's UL Listed thermoplastic Santoprene.

The key to Quasar's brilliance and uniformity of highly diffused light is its use of the highest quality prismatic glazing material available in the industry and our proprietary computer generated Radial Triarch thermoformed dome shape. Every Quasar product is built exclusively with Plaskolite's flawless Duraplex Prismatic with a K12 prism pattern. The impact modified outer dome is housed in a fully dimensioned, heavy duty 0.075" thick architectural grade 6063-T5 aluminum frame with an AAMA compliant "poured and debridged" thermal break and sealed by Monsanto's UL Listed thermoplastic Santoprene.

Meet the Following Energy Codes:

Kite & Klick
Intelligent LED Lighting & Thermally Efficient, Translucent Wall Panels

The Smart-Lite Kite is an aesthetically pleasing luminaire, designed to complement the ZEL (Zero Energy Lighting) initiative championed by Kingspan. It is lightweight with a slim profile which makes it a logical choice for projects requiring unobtrusive lighting.

Our Klick system is a secret-fix wall light system typically suited for vertical applications. Featuring an innovative joint detail, this flexible wall light system is designed for standalone use where no integration with insulated panels is required, and can also he combined with an extruded aluminium frame to allow for integration with a range of building materials including insulated panels, brick and render.

The AAMA compliant "poured and debridged" thermal break prevents condensation.

Corners are secured by Bristolite's proprietary Lockdown corner stabilizers and heliarc welded.